

ELENCO DELLE PUBBLICAZIONI

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a cura di
Dott.ssa Rosina Serpe

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2000

- 2000 P 1146** CALABRIA R., PULCINI G. (2000) *Inference and test in modeling the failure/repair process of repairable mechanical equipments*. Reliability Engineering and System Safety, **67** (1), pp. 41-53.
- 2000 P 1165** PULCINI G. (2000) *On the overhaul effect for repairable mechanical units: a Bayes approach*. Reliability Engineering and System Safety, **70** (1), pp. 85-94.
- 2000 P** CIAMBELLI P., CORBO P., MIGLIARDINI F. (2000) *Potentialities and limitations of lean de-NOx catalysts in reducing automotive exhaust emissions*. Catalysis Today, **59** (3-4), pp. 279-286.
- 2000 P 1212** BEATRICE C., BERTOLI C., DEL GIACOMO N., MIGLIACCIO M.NA (2000) *Potentiality of oxygenated synthetic fuel and reformulated fuel on emissions from a modern DI Diesel engine*. SAE 1999 Transactions "Journal of Fuels and Lubricants", **108**, pp. 1905-1912.
- 2000 P 1219** CORDINER S., ROCCO V., GAMBINO M., IANNACCONE S. (2000) *Simulation tool for HD natural gas fuelled engine optimised design*. Proceedings 7th International Conference on Energy and Environment, Cairo (Egipt) 2000, Vol. I: Energy, pp. 53-67.
- 2000 P 1220** GAMBINO M., IANNACCONE S., MIGLIACCIO G., PIDELLO F. (2000) *New generation of heavy duty natural gas engines for urban buses*. Proceedings 7th International Conference on Energy and Environment, Cairo (Egipt) 2000, Vol. I: Energy, pp. 25-35.
- 2000 P 1223** BIANCHI G.M., PELLONI P., ESPOSITO CORCIONE F., MATARELLI E., LUPPINO BERTONI F. (2000) *Numerical study of the combustion chamber shape for common rail H.S.D.I. Diesel engines*. In SAE Vol. SP-1530 "Compression Ignition Combustion Processes", pp. 1-17, SAE Technical Paper 2000-01-1179.
- 2000 P 1227** DI STASIO S. (2000) *Feasibility of an optical experimental method for the sizing of primary spherules in sub-micron agglomerates by polarized light scattering*. Applied Physics B: Laser and Optics, **70** (4), pp. 635-643.
- 2000 P 1228** ASTARITA M., ESPOSITO CORCIONE F., VAGLIECO B.M. (2000) *Fuel composition effects on particulate formation in a divided chamber Diesel system*. Experimental Thermal and Fluid Science, **21**, pp. 142-149.
- 2000 P 1230** DI STASIO S. (2000) *Polarized optical scattering for sizing of primary nanoparticles constituting soot aggregates in flames*. Proceedings Open Meeting on Combustion – XXIII Event of Italian Section of The Combustion Institute, Lacco Ameno (Italy) 2000.
- 2000 P 1231** CIAMBELLI P., CORBO P., PALMA V., RUSSO P., VACCARO S., VAGLIECO B. (2000) *Foam catalytic trap for Diesel soot abatement*. Proceedings Open Meeting on Combustion – XXIII Event of Italian Section of The Combustion Institute, Lacco Ameno (Italy) 2000.
- 2000 P 1232** ESPOSITO CORCIONE F., COSTA M., DE MAIO A., FORMISANO G., MEROLA S.S., VAGLIECO B.M. (2000) *Monitoring of radical species for the detection of autoignition in Diesel engines*. Proceedings Open Meeting on Combustion – XXIII Event of Italian Section of The Combustion Institute, Lacco Ameno (Italy) 2000.
- 2000 P 1233** ESPOSITO CORCIONE F., MEROLA S.S., VAGLIECO B.M. (2000) *Study of soot oxidation in Diesel engine by optical detection of OH radical according chemical properties of fuels*. Proceedings Open Meeting on Combustion – XXIII Event of Italian Section of The Combustion Institute, Lacco Ameno (Italy) 2000.
- 2000 P 1234** ESPOSITO CORCIONE F., D'ALESSIO A., D'ANNA A., MEROLA S.S., VAGLIECO B.M., VIOLI A. (2000) *Ultrafine particle formation in Diesel-like conditions*. Proceedings Open Meeting on Combustion – XXIII Event of Italian Section of The Combustion Institute, Lacco Ameno (Italy) 2000.
- 2000 P 1235** CIAMBELLI P., CORBO P., PALMA V., RUSSO P., VACCARO S., VAGLIECO B. (2000) *Development of catalytic filters for soot particulate removal from exhaust gases*. Poster Session 5th International Congress on Catalysis and Automotive Pollution Control – CAPoC 5, Brussels (Belgium) 2000, Vol. 2, pp. 345-354.
- 2000 P 1236** SENATORE A., CARDONE M., ROCCO V., PRATI M.V. (2000) *A comparative analysis of combustion process in D.I. Diesel engine fueled with biodiesel and Diesel fuel*. In SAE Vol. PT-111 "Alternative Diesel Fuels" (ISBN 978-0-7680-1331-3), SAE Technical Paper 2000-01-0691.
- 2000 P 1237** DELLA RAGIONE L., RAPONE M., MECCARIELLO G. (2000) *Modelli statistici per la valutazione delle emissioni inquinanti*. Proceedings 1° Convegno Utenti SAS del Mondo Scientifico – SAS Campus 2000, Milano (Italy) 2000, pp. 153-162.
- 2000 P 1239** CALABRIA R., MASSOLI P. (2000) *Sizing di sfere omogenee e radialmente inhomogenee mediante analisi angolare della luce diffusa*. Poster Session 6° Convegno Nazionale su Strumentazione e Metodi di Misura Elettroottici – Elettroottica 2000, Padova (Italy) 2000, pp. 305-308.
- 2000 P 1240** VALENTINO G., AURIEMMA M., ESPOSITO CORCIONE F. (2000) *LDV characterization of mean motion and turbulence in a four-cylinder Diesel engine*. Proceedings 2000 ASME Fluids Engineering Division Summer Meeting – FEDSM 2000, Boston (USA) 2000, pp. 1-6.
- 2000 P 1241** AURIEMMA M., ESPOSITO CORCIONE F., DI MARTINO U., VALENTINO G. (2000) *LDA investigation on the dynamic intake flow in a Diesel engine head by steady state test ring*. Proceedings 22nd IEA Task Leaders Meeting on Energy Conservation and Emissions Reduction in Combustion, Stockholm (Sweden) 2000, pp. 118-124.
- 2000 P 1243** GAMBINO M., IANNACCONE S., PRATI M.V., UNICH A. (2000) *Regulated and unregulated emissions reduction with retrofitted catalytic after-treatment on small two stroke s.i. engine*. In SAE Vol. SP-1544 "Advanced Emissions Aftertreatment for Gasoline Applications", pp. 1-8, SAE Technical Paper 2000-01-1846.
- 2000 P 1245** BEATRICE C., BERTOLI C., DEL GIACOMO N., MASSOLI P., MIGLIACCIO M.NA (2000) *Combustion behavior analysis in a transparent research engine equipped with a Common Rail Diesel injection system*. In SAE Vol. SP-1549 "Combustion in Diesel and SI Engines", pp. 1-10, SAE Technical Paper 2000-01-1825.

- 2000 P 1246** PRATI M.V. (2000) *Gli scenari dei combustibili tradizionali ed alternativi per l'autotrazione in Europa*. Proceedings Convegno su Arie di Città: la Qualità dell'Aria in Ambiente Urbano, Bologna (Italy) 2000, pp. 58-61.
- 2000 P 1247** DE VITA A., DI ANGELO L., ALLOCCA L., ALFUSO S. (2000) *Spray characteristics of a high pressure injection for GDI engines*. Proceedings 9th International Symposium on Flow Visualization, Edinburgh (UK) 2000, Paper 441.
- 2000 P 1248** ALFUSO S., ALLOCCA L., BELLA G., ROTONDI R. (2000) *Experimental and numerical study of a GDI swirl injector*. Proceedings 16th Annual Conference on Liquid Atomization and Spray Systems – ILASS Europe 2000, Darmstadt (Germany) 2000, Paper I.2.
- 2000 P 1249** VALENTINO G., AURIEMMA M., ESPOSITO CORCIONE F., DI MARTINO U. (2000) *Investigation on the air flow down-stream the intake valve of an internal combustion engine*. Proceedings 9th International Symposium on Flow Visualization, Edinburgh (UK) 2000, Paper 307.
- 2000 P 1250** ESPOSITO CORCIONE F., COSTA M., MEROLA S.S., VAGLIECO B.M. (2000) *Characterisation by optical measurements and numerical simulation of the action of intermediate species in Diesel combustion*. Proceedings 22nd IEA Task Leaders Meeting on Energy Conservation and Emissions Reduction in Combustion, Stockholm (Sweden) 2000, pp. 203-211.
- 2000 P 1251** DELLA RAGIONE L., MECCARIELLO G., RAPONE M. (2000) *An application of Image Editor and Image Management to recorded traffic video images*. Proceedings 18th Annual SeUGI Conference and Exhibition of SAS Institute, Dublin (EIRE) 2000.
- 2000 P 1254** DI STASIO S., VALENTINO G., ESPOSITO CORCIONE F. (2000) *Spray boundary concept and droplet size distribution of dense Diesel jets by different laser experiments*. Proceedings 16th Annual Conference on Liquid Atomization and Spray Systems – ILASS Europe 2000, Darmstadt (Germany) 2000, Paper I.15.
- 2000 P 1255** BEATRICE C., BERTOLI C., MINCIONE G. (2000) *A Common Rail hydraulic simulation code for injection characteristics investigation: implementation and preliminary results*. Proceedings 16th Annual Conference on Liquid Atomization and Spray Systems – ILASS Europe 2000, Darmstadt (Germany) 2000, Paper I.5.
- 2000 P 1257** DI STASIO S., ONISCHUK A. (2000) *"In-situ" characterization of nanoparticle aggregates by polarized optical scattering: application to soot in flames*. Journal of Aerosol Science, **31** (Suppl. 1), pp. S919-S920.
- 2000 P 1258** ONISCHUK A.A., DI STASIO S., STRUNIN V.P., KARASEV V.V., BAKLANOV A.M., PANFILOV V.N. (2000) *Coulomb interactions during agglomeration process of soot aerosol nanoparticles*. Journal of Aerosol Science, **31** (Suppl. 1), pp. S948-S949.
- 2000 P 1259** ONISCHUK A.A., DI STASIO S., LEVYKIN A.I., STRUNIN V.P., KARASEV V.V., SABELFELD K. K., PANFILOV V.N. (2000) *The role of dipole interactions in coagulation of silicon agglomerates*. Journal of Aerosol Science, **31** (Suppl. 1), pp. S950-S951.
- 2000 P 1260** ONISCHUK A.A., DI STASIO S., STRUNIN V.P., KARASEV V.V., PANFILOV V.N. (2000) *Dipole interaction during agglomeration of aerosol particles*. Journal of Aerosol Science, **31** (Suppl. 1), pp. S1005-S1006.
- 2000 P 1261** BORGHESE A. (2000) *Spectrophotometry of fine aerosols emitted by internal combustion engines*. Journal of Aerosol Science, **31** (Suppl. 1), pp. S626-S627.
- 2000 P 1262** BEATRICE C., BERTOLI C., DEL GIACOMO N. (2000) *Further knowledge on combustion behaviour of oxygenated synthetic Diesel fuels*. Environmental Combustion Technologies, **1**, pp. 205-224.
- 2000 P 1263** AURIEMMA M., ESPOSITO CORCIONE F., DI MARTINO U., VALENTINO G. (2000) *Misure del moto dell'aria a valle della valvola d'aspirazione di un motore Diesel i.d. mediante velocimetria laser*. Proceedings Giornate di Studio Associazione Italiana di Velocimetria Laser – A.I.VE.LA., Ancona (Italy) 2000.
- 2000 P 1264** RAPONE M., DELLA RAGIONE L., PRATI M.V., VIOLETTI N. (2000) *Driving behavior and emission results for a small size gasoline car in urban operation*. In SAE Vol. SP-1564 "Emissions: Measurement, Test Methods, and Control", pp. 1-9, SAE Technical Paper 2000-01-2960.
- 2000 P 1265** DI STASIO S., VALENTINO G., ESPOSITO CORCIONE F., BERTONI F.L. (2000) *Identification of a Common-Rail Diesel jet contour and spray droplet velocity by two different laser techniques*. Proceedings SAE International Fall Fuels and Lubricants Meeting & Exposition, Baltimore (USA) 2000, SAE Technical Paper 2000-01-2861.
- 2000 P 1267** ALFANO G., BEATRICE C., BELARDINI P., BERTOLI C., MIGLIACCIO M. (2000) *Advanced Diesel fuels simulation in a modern DI Diesel engine*. ATA, **53** (7/8), pp. 230-237.
- 2000 P 1268** DELLA RAGIONE L., MECCARIELLO G., RAPONE M. (2000) *Le potenzialità dell'ODS per la presentazione dei risultati del Progetto ATENA*. Proceedings XVI Convegno Annuale SAS – SUGItalia 2000, Milano 2000, pp. 441-450.
- 2000 P 1269** RAPONE M., D'AMBRA L., DELLA RAGIONE L., SPEDALIERE S. (2000) *Statistical modeling for the evaluation of car exhaust emissions in real use*. Proceedings 3rd International Conference on Applied Mathematics and Engineering Sciences – CIMASI'2000, Casablanca (Maroc) 2000.
- 2000 P 1270** DI STASIO S., ALLOCCA L. (2000) *Influence of the gas ambient nature on Diesel spray properties at high injection pressure: experimental results*. Proceedings Conference on Thermofluidynamic Processes in Diesel Engines – THIESEL 2000, Valencia (Spain) 2000, pp. 95-108.
- 2000 P 1276** ESPOSITO CORCIONE F., PRATI M.V., VAGLIECO B.M. (2000) *In-cylinder combustion process of engines fueled with biodiesel and Diesel fuel*. Proceedings International Conference on Alternative Automotive Propulsion Systems, Essen (Germany) 2000.
- 2000 P 1277** CAPUTO C., DELLE SITE V., SCOGNAMIGLIO A. (2000) *Tecnologie innovative per i veicoli terrestri (Prima parte)* La Termotecnica, **54** (6), pp. 131-137.
- 2000 P 1278** CAPUTO C., DELLE SITE V., SCOGNAMIGLIO A. (2000) *Tecnologie innovative per i veicoli terrestri (Seconda parte)* La Termotecnica, **54** (7), pp. 49-53.
- 2000 P 1279** CAPUTO C., DELLE SITE V., SCOGNAMIGLIO A. (2000) *Tecnologie innovative per i veicoli terrestri (Terza parte)* La Termotecnica, **54** (8), pp. 67-71.
- 2000 P 1280** ONISCHUK A.A., DI STASIO S., KARASEV V.V., STRUNIN V.P., BAKLANOV A.M., PANFILOV V.N. (2000) *Evidence for long-*

range coulomb effects during formation of nanoparticle agglomerates from pyrolysis and combustion routes. The Journal of Physical Chemistry A, **104** (45), pp. 10426-10434.

2000 P 1285 PRATI M.V., RAPONE M., DELLA RAGIONE L., IANNACCONE S. (2000) *La direttiva comunitaria 98/70/CE ed il suo impatto sul parco circolante. Le possibili conseguenze ambientali.* In "ENEA Rapporto Energia e Ambiente 2000 – L'uscita dal mercato della benzina rossa", pp. 250-251.

2000 P 1292 CALABRIA R., MASSOLI P. (2000) *Experimental study of droplets in evaporating regime by 2D scattering analysis.* Proceedings 10th International Symposium on Applications of Laser Techniques to Fluid Mechanics, Lisboa (Portugal) 2000.

2000 P 1301 GAMBINO M., IANNACCONE S., TURRIO BALDASSARRI L. (2000) *Mobilità ed inquinamento: il ruolo del gas naturale per la salvaguardia della salute del cittadino.* Proceedings 8° METANAUTO Congress, Rimini (Italy) 2000, pp. 109-120.

2000 P 1306 VIOLI A., D'ANNA A., D'ALESSIO A., ASTARITA M., VAGLIECO B.M. (2000) *Experimental and modeling study of particulate formation in high-pressure Diesel-like conditions.* Proceedings of The Combustion Institute, Vol. **28** (Part I), Edinburgh (UK) 2000, pp. 1241-1247.

2000 P 1309 ABATINO E., ESPOSITO CORCIONE F. (2000) *I primi 60 anni dell'Istituto Motori.* CNR, Roma.

2000 P ALLOUIS C., D'ALESSIO A., BERETTA F., BORGHESE A. (2000) *Ultraviolet absorption and fluorescence measurements in turbulent spray flames.* Proceedings of The Combustion Institute, Vol. **28**, Edinburgh (UK) 2000, pp. 311-317.

2001

2001 P 1157 PULCINI G. (2001) *An exponential reliability-growth model in multi-copy testing program.* IEEE Transactions on Reliability, **50** (4), pp. 365-373.

2001 P 1211 PULCINI G. (2001) *A bounded intensity process for the reliability of repairable equipment.* Journal of Quality Technology, **33** (4), pp. 480-492.

2001 P 1224 PRATI M.V., RAPONE M., VIOLETTI N., MERCOGLIANO R., TRERÈ R. (2001) *Regulated and benzene emissions of in-use two-stroke mopeds and motor-cycles.* SAE 2000 Transactions "Journal of Fuels and Lubricants", **109**, pp. 579-585.

2001 P 1229 PULCINI G. (2001) *Modeling the failure data of a repairable equipment with bathtub type failure intensity.* Reliability Engineering and System Safety, **71** (2), pp. 209-218.

2001 P 1242 PULCINI G. (2001) *On the prediction of future failures for a repairable equipment subject to overhauls.* Communications in Statistics – Theory and Methods, **30** (4), pp. 691-706.

2001 P 1244 BEATRICE C., BERTOLI C., DEL GIACOMO N., MIGLIACCIO M.NA (2001) *Experimental investigation on high-quality Diesel fuels effects in light duty CR Diesel engine.* SAE 2000 Transactions "Journal of Fuels and Lubricants", **109**, pp. 1517-1524.

2001 P 1266 BERTOLI C., D'ALESSIO J., DEL GIACOMO N., LAZZARO M., MASSOLI P., MOCCIA V. (2001) *Running light-duty DI Diesel engines with wood pyrolysis oil.* SAE 2000 Transactions "Journal of Fuels and Lubricants", **109**, pp. 3090-3096.

2001 P 1273 DI STASIO S. (2001) *Electron microscopy evidence of aggregation under three different size scales for soot nanoparticles in flame.* Carbon, **39** (1), pp. 109-118.

2001 P 1274 GUIDA M., PULCINI G. (2001) *A Bayes approach to automotive components reliability testing and development.* In "Safety and Reliability: Towards a Safer World" (E. Zio et al., Eds), 2001, Vol. 3, pp. 1971-1978 (ISBN 88-8202-099-3).

2001 P 1284 DIANA S., GIGLIO V., IORIO B., POLICE G. (2001) *A model based evaluation of emissions for manifold injected SI engines.* SAE 2000 Transactions "Journal of Fuels and Lubricants", **109**, pp. 672-682.

2001 P 1286 DE VITA A., DI ANGELO L., ESPOSITO CORCIONE F., ALLOCCA L., ALFUSO S. (2001) *Optical diagnostics of the spray structure of a high pressure-swirl injector for DI gasoline engines.* Proceedings 5th Congress on Engine Combustion Processes (Current Problems and Modern Techniques), Essen (Germany) 2001, pp. 291-300.

2001 P 1287 ESPOSITO CORCIONE F., ALFUSO S., ALLOCCA L., VALENTINO G. (2001) *Global spray characteristics and droplet size and velocity distributions in a swirled-type injector for GDI engines.* Proceedings International Congress for Particle Technology – PARTEC 2001, Nuremberg (Germany) 2001.

2001 P 1291 BIANCHI G.M., PELLONI P., ESPOSITO CORCIONE F., ALLOCCA L., LUPPINO F. (2001) *Modeling atomization of high-pressure Diesel sprays.* Journal of Engineering for Gas Turbines and Power, **123**, pp. 419-427.

2001 P 1293 BEATRICE C., BELARDINI P., BERTOLI C., LISBONA M.G., MIGLIACCIO M.NA (2001) *Combustion patterns in common rail d.i. engines inferred by experiments and C.F.D. computations.* Combustion Science and Technology, **162**, pp. 235-261.

2001 P 1295 DE VITA A., DI ANGELO L., ALLOCCA L., ALFUSO S. (2001) *Transient spray characteristics of a high pressure injector for DI gasoline engines.* Proceedings 7th ATA International Conference on The Role of Experimentation in the Automotive Product Development Process, Firenze (Italy) 2001, Paper 01A1051.

2001 P 1298 AURIEMMA M., ESPOSITO CORCIONE F., DI MARTINO U., VALENTINO G. (2001) *Analysis of the intake flow in a Diesel engine head using dynamic steady flow conditions.* Proceedings SAE 2001 World Congress, Detroit (USA) 2001, SAE Technical Paper 2001-01-1307.

2001 P 1299 ESPOSITO CORCIONE F., MEROLA S.S., VAGLIECO B.M. (2001) *Nanometric particle formation in optically accessible Diesel engine.* In SAE Vol. SP-1580 "Progress in Diesel Engine Combustion Processes", SAE Technical Paper 2001-01-1258.

2001 P 1304 ANDREASSI L., CORDINER S., ROCCO V., GAMBINO M., IANNACCONE S. (2001) *Analysis of combustion instability phenomena in a CNG fueled heavy-duty turbocharged engine.* In SAE Vol. SP-1625 "Progress in SI and Diesel Engine Modeling", SAE Technical Paper 2001-01-1907.

2001 P 1305 CONSALES S., ESPOSITO CORCIONE F., FORMISANO G., MEROLA S.S., VAGLIECO B.M. (2001) *Determination of size distribution of fuel droplets and soot particles in a Diesel engine by broadband extinction and scattering spectroscopy.* Proceedings International Congress for Particle Technology – PARTEC 2001, Nuremberg (Germany) 2001.

- 2001 P 1307** DI STASIO S., VALENTINO G. (2001) *Local properties of Diesel fuel jets investigated by phase doppler anemometry and light extinction technique*. Proceedings 5th Congress on Engine Combustion Processes (Current Problems & Modern Techniques), Essen (Germany) 2001, pp. 203-212.
- 2001 P 1308** ALLOCCA L., ESPOSITO CORCIONE F., VALENTINO G. (2001) *Study of the atomisation in a GDI spray by laser light extinction and phase doppler techniques*. Proceedings 17th International Conference on Liquid Atomization and Spray Systems – ILASS Europe 2001, Zurich (Switzerland) 2001.
- 2001 P 1310** ESPOSITO CORCIONE F., VAGLIECO B.M., CORCIONE E.G. (2001) *Experimental characterization of new generation of Diesel injection systems for multiple injections*. Proceedings 14th Annual Conference on Liquid Atomization and Spray Systems – ILASS Americas 2001, Dearborn (USA) 2001, pp. 76-77.
- 2001 P 1312** DI STASIO S. (2001) *A depolarization based optical scattering technique to measure the onset of the early agglomeration of flame-generated nano-size soot particles*. Proceedings International Symposium on Radiative Transfer III, Antalya (Turkey) 2001, Paper 06-03.
- 2001 P 1313** VAGLIECO B.M., MEROLA S.S., D'ANNA A., D'ALESSIO A. (2001) *Spectroscopic analysis and modeling of particulate formation in a Diesel engine*. Proceedings International Symposium on Radiative Transfer III, Antalya (Turkey) 2001, Paper 06-04.
- 2001 P 1314** COSTA M., MEROLA S.S., VAGLIECO B.M., CONSALES S., FORMISANO G. (2001) *Analysis of the effect of Diesel engine operating conditions on soot formation by spectroscopic investigation*. Proceedings International Symposium on Radiative Transfer III, Antalya (Turkey) 2001, Paper 14-03.
- 2001 P 1315** DI STASIO S. (2001) *Observation of restructuring of nanoparticle soot aggregates in a diffusion flame by static light scattering*. Journal of Aerosol Science, **32**, pp. 509-524.
- 2001 P 1316** ALFUSO S., ALLOCCA L., ESPOSITO CORCIONE F., VALENTINO G., CAPUTO G. (2001) *Droplets size and velocity in a GDI spray by PDA and laser light extinction techniques*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 17-23, SAE Technical Paper 2001-01-0047.
- 2001 P 1317** ESPOSITO CORCIONE F., VAGLIECO B.M., ITALIA F., LAVORGNA M., RIZZOTTO G., CONSALES S., FORMISANO G. (2001) *Mixture formation and autoignition process at different engine conditions in an optical accessible Diesel engine*. Proceedings 3rd International Conference on Control and Diagnostics in Automotive Applications – CD AUTO 01, Sestri Levante (Italy) 2001, Paper 01A3013.
- 2001 P 1318** BEATRICE C., BERTOLI C., DEL GIACOMO N., MIGLIACCIO M. (2001) *Preliminary results on combustion system design effects on Common Rail Diesel combustion behavior*. Proceedings 3rd International Conference on Control and Diagnostics in Automotive Applications – CD AUTO 01, Sestri Levante (Italy) 2001, Paper 01A3016.
- 2001 P 1319** GIUFFRÈ F., RIZZOTTO G., ITALIA F., LAVORGNA M., LIONETTO A., ESPOSITO CORCIONE F., CORBO P., MIGLIARDINI F., VENERI O. (2001) *Hybrid electric vehicles advanced control system*. Proceedings 3rd International Conference on Control and Diagnostics in Automotive Applications – CD AUTO 01, Sestri Levante (Italy) 2001, Paper 01A3028.
- 2001 P 1320** ESPOSITO CORCIONE F., VAGLIECO B.M., CONSALES S., COSTA M., FORMISANO G., MEROLA S.S. (2001) *Temporal and spatial evolution of radical species in the experimental and numerical characterization of Diesel auto-ignition*. Proceedings 5th International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines – COMODIA 2001, Nagoya (Japan) 2001, pp. 115-122.
- 2001 P 1321** ESPOSITO CORCIONE F. (2001) *Optical diagnostics in engines*. Proceedings 5th International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines – COMODIA 2001, Nagoya (Japan) 2001, pp. 22-37.
- 2001 P 1322** CONSALES S., MEROLA S.S., VAGLIECO B.M. (2001) *Experimental and modelling characterisation of nanometric particles at the exhaust of Common Rail Diesel engine*. Proceedings 6th International Conference on Technologies and Combustion for a Clean Environment, Oporto (Portugal) 2001, Vol. II, pp. 809-814.
- 2001 P 1323** ESPOSITO CORCIONE F. (2001) *La sfida tecnologica nel trasporto del terzo millennio*. Ricerca & Futuro, **20**, pp. 33-37.
- 2001 P 1325** CALABRIA R., MASSOLI P. (2001) *Generalized scattering imaging: a 2-D technique to measure size and optical properties of droplets in sprays*. Proceedings 17th International Conference on Liquid Atomization and Spray Systems – ILASS Europe 2001, Zurich (Switzerland) 2001.
- 2001 P 1326** BARONE S., GUIDA M., PULCINI G. (2001) *A stochastic degradation model of catalytic converters performances*. Proceedings International Workshop on Modeling, Emissions and Control in Automotive Engines – MECA'01, Fisciano (Italy) 2001, pp. 113-121.
- 2001 P 1327** BARONE S., GUIDA M. (2001) *A stochastic model of cumulative damage in presence of relevant experimental error. Application to catalytic converters reliability analysis*. Proceedings 2nd International Conference on Advanced Measurement Techniques and Sensory Systems for Automotive Applications, Ancona (Italy) 2001.
- 2001 P 1328** GAMBINO M., IANNAACCONE S. (2001) *Two stroke direct injection spark ignition engine for two wheelers*. Proceedings Small Engine Technology Conference and Exhibition, Pisa (Italy) 2001, Vol. I, pp. 557-566.
- 2001 P 1329** AURIEMMA M., ESPOSITO CORCIONE F., DIANA S., POLICE G., VALENTINO G. (2001) *Investigation of the intake tumble flow in a prototype GDI engine using a steady state test rig*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 27-32, SAE Technical Paper 2001-01-0022.
- 2001 P 1330** BEATRICE C., BERTOLI C., D'ALESSIO J., LAZZARO M., MASSOLI P., MOCCIA V. (2001) *Characterization of the sooting tendency of Diesel fuels by shock tube and engine experiments*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 20-26, SAE Technical Paper 2001-01-0040.
- 2001 P 1331** CALABRIA R., D'ALESSIO J., LAZZARO M., MASSOLI P., MOCCIA V. (2001) *High pressure combustion of wood pyrolysis oil*. Proceedings 5th International Conference on Internal

Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 43-50, SAE Technical Paper 2001-01-0025.

2001 P 1332 COSTA M., MEROLA S.S., VAGLIECO B.M. (2001) *Modelling of soot formation in Diesel engines exploiting measurements of soot volume fraction and diameter*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 96-103, SAE Technical Paper 2001-01-0011.

2001 P 1333 BEATRICE C., BELARDINI P., BERTOLI C., DEL GIACOMO N., MIGLIACCIO M.NA (2001) *Combustion chamber design effects on D.I. common rail Diesel engine performance*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 70-76, SAE Technical Paper 2001-01-0005.

2001 P 1334 CORBO P., ESPOSITO CORCIONE F., COSTA M., MIGLIARDINI F. (2001) *Fuel processing for hydrogen fuel cell vehicles*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 16-23, SAE Technical Paper 2001-01-0031.

2001 P 1335 BEATRICE C., BELARDINI P., BERTOLI C., LISBONA M.G., ROSSI SEBASTIANO G.M. (2001) *Combustion process management in common rail Diesel engines by multiple injection*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 43-55, SAE Technical Paper 2001-01-0007.

2001 P 1336 ESPOSITO CORCIONE F., MEROLA S.S., VAGLIECO B.M., FORMISANO G. (2001) *In-cylinder optical analysis of CRDI Diesel engine combustion*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 56-62, SAE Technical Paper 2001-01-0027.

2001 P 1337 BEATRICE C., BELARDINI P., D'ASCOLI G., DEL GIACOMO N. (2001) *Design of a small displacement transparent research engine equipped with a common rail Diesel injection system*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 22-29, SAE Technical Paper 2001-01-0021.

2001 P 1338 ESPOSITO CORCIONE F., MEROLA S.S., VAGLIECO B.M. (2001) *Optical detection of absolute NO and OH concentration inside Diesel combustion chamber*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 30-35, SAE Technical Paper 2001-01-0028.

2001 P 1339 BORGARELLO L., FORTUNATO A., GORTAN L., MINA L., DELLA RAGIONE L., MECCARIELLO G., PRATI M.V., RAPONE M. (2001) *Preliminary results on emissions and driving behaviour of ATENA fleet test project in Naples*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 52-60, SAE Technical Paper 2001-01-0083.

2001 P 1340 DELLA RAGIONE L., MECCARIELLO G., PRATI M.V., RAPONE M. (2001) *A real use emissions statistical model. Application to a small size gasoline catalyst car*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 43-51, SAE Technical Paper 2001-01-0080.

2001 P 1341 GAMBINO M., IANNACCONE S., BATTISTELLI C.L., CREBELL R., IAMICELI A.L., TURRIO BALDASSARRI L. (2001) *Exhaust emission*

toxicity evaluation for heavy duty Diesel and natural gas engines. Part I: regulated and unregulated emissions with Diesel fuel and a blend of Diesel fuel and biodiesel. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 50-55, SAE Technical Paper 2001-01-0044.

2001 P 1342 DE VITA A., DI ANGELO L., ALLOCCA L., ALFUSO S. (2001) *Evolution of a high pressure spray from a swirled gasoline injector*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 85-92, SAE Technical Paper 2001-01-0055.

2001 P 1343 GIGLIO V., IORIO B., POLICE G., DI GAETA A. (2001) *Preliminary experiences in the design of an electromechanical valve actuator*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 34-46, SAE Technical Paper 2001-01-0016.

2001 P 1344 MEROLA S.S., VAGLIECO B.M., CONSALES S. (2001) *Characterization of CR Diesel exhaust by UV-visible extinction and scattering spectroscopy*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 23-29, SAE Technical Paper 2001-01-0070.

2001 P 1345 CORBO P., MIGLIARDINI F., AIELLO R., CREA F., CAPUTO D., COLELLA C., IUCOLANO F. (2001) *Abatement of automotive cold start hydrocarbon emissions*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 51-58, SAE Technical Paper 2001-01-0066.

2001 P 1346 BERTOLI C., CALABRIA R., D'ALESSIO J., DEL GIACOMO N., LAZZARO M., MASSOLI P., MOCCIA V. (2001) *Diesel engines fueled by wood pyrolysis: feasibility and perspectives*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 18-25, SAE Technical Paper 2001-01-0041.

2001 P 1347 BEATRICE C., BERTOLI C., DEL GIACOMO N., GUIDO C. (2001) *Further knowledge on effects of fuels quality changes on emission potential of common rail d.i. Diesel engine*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 26-34, SAE Technical Paper 2001-01-0042.

2001 P 1348 PELKMANS L., VAN POPPEL M., DE KEUKELEERE D., GAMBINO M., IANNACCONE S. (2001) *Influencing parameters of the exhaust gas emissions of a stoichiometric natural gas bus in real use*. Proceedings 5th International Conference on Internal Combustion Engines – ICE 2001, Capri (Italy) 2001, pp. 5-12, SAE Technical Paper 2001-01-0038.

2001 P 1349 DELLA RAGIONE L., MECCARIELLO G., RAPONE M. (2001) *The data warehousing process in the development of traffic emission information system of ATENA project in Naples*. Proceedings 19th Annual SeUGI Conference and Exhibition of SAS Institute, Firenze (Italy) 2001.

2001 P 1350 CIAMBELLI P., CORBO P., PALMA V., RUSSO P., VACCARO S., VAGLIECO B.M. (2001) *Study of catalytic filters for soot particulate removal from exhaust gases*. Topics in Catalysis, **16/17** (1-4), pp. 279-284.

2001 P 1351 BEATRICE C., BELARDINI P., BERTOLI C., D'ASCOLI G., MIGLIACCIO M.NA (2001) *Simulazione multidimensionale dell'iniezione e della combustione in motori Diesel "common*

- rail" gestiti mediante iniezioni multiple sequenziali. Proceedings 56° Congresso Nazionale ATI, Napoli (Italy) 2001, Vol. 3, pp. 81-93.*
- 2001 P 1352** BEATRICE C., BELARDINI P., BERTOLI C., DEL GIACOMO N., MIGLIACCIO M. (2001) *Effetti del disegno della camera di combustione sulle prestazioni di un motore Diesel I.D. "common rail". Proceedings 56° Congresso Nazionale ATI, Napoli (Italy) 2001, Vol. 3, pp. 95-105.*
- 2001 P 1353** BEATRICE C., BERTOLI C., LAZZARO M., MASSOLI P. (2001) *Definizione di indici che caratterizzano la "sooting tendency" di combustibili liquidi in esperimenti condotti in shock tube e motori Diesel. Proceedings 56° Congresso Nazionale ATI, Napoli (Italy) 2001, Vol. 3, pp. 349-359.*
- 2001 P 1354** BEATRICE C., BERTOLI C., DEL GIACOMO N., GUIDO C. (2001) *Studi ed esperienze sull'impiego dell'iniezione multipla sequenziale "common rail". Proceedings 56° Congresso Nazionale ATI, Napoli (Italy) 2001, Vol. 3, pp. 397-408.*
- 2001 P 1355** BEATRICE C., BERTOLI C., D'ASCOLI G., DEL GIACOMO N. (2001) *Studio di un prototipo di motore Diesel common rail accessibile otticamente di bassa cilindrata. Proceedings 56° Congresso Nazionale ATI, Napoli (Italy) 2001, Vol. 3, pp. 409-418.*
- 2001 P 1356** ALFANI A., MAISTO G., PRATI M.V., BALDANTONI D. (2001) *Leaves of Quercus ilex L. as biomonitors of PAHs in the air of Naples (Italy). Atmospheric Environment, 35 (21), pp. 3553-3559.*
- 2001 P 1360** ONISCHUK A.A., DI STASIO S., BAKLANOV A.M., KARASEV V.V., MAKHOV G.A., VLASENKO A.L., ANKILOV A.N., PANFILOV V.N. (2001) *Coulomb interactions in soot particle formation. Journal of Aerosol Science, 32 (Suppl. 1), pp. S71-S72.*
- 2001 P 1361** DI STASIO S., ONISCHUK A.A. (2001) *Depolarized optical scattering by nanoparticle clusters undergoing structural compacting in a flame. Journal of Aerosol Science, 32 (Suppl. 1), pp. S235-S236.*
- 2001 P 1362** KARASEV V.V., DI STASIO S., ONISCHUK A.A., BAKLANOV A.M., MAKHOV G.A., GLOTOV O.G., ZARKO V.E., PANFILOV V.N. (2001) *Synthesis of charged agglomerates of Al_2O_3 particles in a combustion reactor. Journal of Aerosol Science, 32 (Suppl. 1), pp. S593-S594.*
- 2001 P 1363** ONISCHUK A.A., DI STASIO S., BAKLANOV A.M., KARASEV V.V., VLASENKO A.L., ANKILOV A.N., PANFILOV V.N. (2001) *Formation of charged agglomerates from AgI aerosol particles. Journal of Aerosol Science, 32 (Suppl. 1), pp. S891-S892.*
- 2001 P 1364** ONISCHUK A.A., DI STASIO S., KARASEV V.V., BAKLANOV A.M., PANFILOV V.N. (2001) *Soot agglomerate convolution due to Coulomb forces. Journal of Aerosol Science, 32 (Suppl. 1), pp. S993-S994.*
- 2001 P 1367** MEROLA S.S., VAGLIECO B.M., CONSALES S., ESPOSITO CORCIONE F., FORMISANO G. (2001) *Determination of size of fuel droplets and soot particles in a Diesel engine by broadband extinction and scattering spectroscopy. Particle & Particle Systems Characterization, 18 (5-6), pp. 235-242.*
- 2001 P 1369** DI LORENZO A. (2001) *New technologies in air pollution prevention and management: a case study. Proceedings 12th World Clean Air & Environment Congress and Exhibition, Seoul (Korea) 2001, Vol. 1.*
- 2001 P 1371** ALLOCCA L., VALENTINO G. (2001) *Droplet size and velocity distributions of a transient hollow-cone spray for GDI engines. Particle & Particle Systems Characterization, 18 (5-6), pp. 262-270.*
- 2001 P 1374** GORTAN L., GARIGLIO A., ARESTI M., CORBO P., ESPOSITO CORCIONE F., MIGLIARDINI F. (2001) *Metodologie di caratterizzazione e di controllo di Fuel Cell system. ATA, 54 (5-6), pp. 208-214.*
- 2001 P 1375** CORBO P., ESPOSITO CORCIONE F., MIGLIARDINI F. (2001) *Combustibili per la produzione di idrogeno a bordo di veicoli a Fuel Cell. ATA, 54 (9-10), pp. 317-324.*
- 2001 P 1376** CIAMBELLI P., CORBO P., ESPOSITO CORCIONE F., MAGLIANO A., MIGLIARDINI F. (2001) *Catalytic steam reforming of hydrocarbons for Fuel Cells electric vehicles. Abstracts 3rd European Workshop on Environmental Catalysis, Maiori (Italy) 2001, pp. 273-274.*
- 2001 P 1377** CORBO P., ESPOSITO CORCIONE F., GIUFFRÈ F., MIGLIARDINI F. (2001) *Produzione di idrogeno per veicoli elettrici a Fuel Cells. Proceedings 12° Seminario Interattivo ANAE su Azionamenti Elettrici: Evoluzione Tecnologica e Problematiche Emergenti, Bressanone (Bolzano) 2001, pp. 155-184.*
- 2001 P 1378** CIAMBELLI P., CORBO P., GAUDINO M.C., MIGLIARDINI F., SANNINO D. (2001) *Investigation of Co₂-based DeNO_x catalysts for the treatment of natural gas lean-burn engine exhaust. Topics in Catalysis, 16/17 (1-4), pp. 413-417.*
- 2001 P** MEROLA S.S., GAMBI G., ALLOUIS C., BERETTA F., BORGHESI A., D'ALESSIO A. (2001) *Analysis of exhausts emitted by i.c. engines and stationary burners, by means of u.v. extinction and fluorescence spectroscopy. Chemosphere, 42 (5-7), pp. 827-834.*

2002

- 2002 P 1200** PULCINI G. (2002) *Accounting for model uncertainty in reliability analysis of mechanical repairable equipment. Communications in Statistics – Theory and Methods, 31 (5), pp. 849-869.*
- 2002 P 1271** DI STASIO S., VALENTINO G., ESPOSITO CORCIONE F. (2002) *Experiments on applicability of different laser diagnostics to droplet sizing in Diesel sprays. In "Thermo- and Fluid-Dynamic Processes in Diesel Engines" (J.H. Whitelaw et al., Eds), Springer Verlag (Berlin), pp. 425-443 (ISBN 3-540-42665-5)*
- 2002 P 1296** BIANCHI G.M., PELLONI P., ESPOSITO CORCIONE F., LUPINO F. (2002) *Numerical analysis of passenger car HSDI Diesel engines with the 2nd generation of common rail injection systems: the effect of multiple injections on emissions. SAE 2001 Transactions "Journal of Engines", 110, pp. 1099-1117.*
- 2002 P 1300** ESPOSITO CORCIONE F., COSTA M., VAGLIECO B.M., DE MAIO A. (2002) *The role of radical species in Diesel engine auto-ignition detection. SAE 2001 Transactions "Journal of Engines", 110, pp. 947-954.*
- 2002 P 1311** GUIDA M., PULCINI G. (2002) *Automotive reliability inference based on past data and technical knowledge. Reliability Engineering and System Safety, 76 (2), pp. 129-137.*

- 2002 P 1324** ESPOSITO CORCIONE F., GORTAN L., SORECA C., VENERI O. (2002) *Una applicazione dei supercondensatori ad un sistema di trazione stradale: il progetto OPTelec*. Proceedings 13° Seminario Interattivo ANAE su Azionamenti Elettrici: Evoluzione Tecnologica e Problematiche Emergenti, Bressanone (Italy) 2002, Vol. I, pp. 137-152.
- 2002 P 1358** DI STASIO S., KONSTANDOPOULOS A.G., KOSTOGLU M. (2002) *Cluster-cluster aggregation kinetics and primary particle growth of soot nanoparticles in flame by light scattering and numerical simulations*. Journal of Colloid and Interface Science, **247**, pp. 33-46.
- 2002 P 1359** DI STASIO S. (2002) *Experiments on depolarized optical scattering to sense in situ the onset of early agglomeration between nano-size soot particles*. Journal of Quantitative Spectroscopy & Radiative Transfer, **73**, pp. 423-432.
- 2002 P 1365** DIANA S., IORIO B., GIGLIO V., POLICE G. (2002) *The effect of valve lift shape and timing on air motion and mixture formation of DISI engines adopting different VVA actuators*. SAE 2001 Transactions "Journal of Fuels and Lubricants", **110**, SAE Paper 2001-01-3553.
- 2002 P 1366** IANNUZZI D., PAGANO E., PIEGARI L., VENERI O. (2002) *Generator operations of asynchronous induction machines connected to AC or DC active/passive electrical networks*. Proceedings 7th International Conference on Modeling and Simulation of Electric Machines, Converters and Systems – ELEC-TRIMACS 2002, Montreal (Canada) 2002.
- 2002 P 1370** GUIDA M., PULCINI G. (2002) *Bayesian reliability-growth modeling of repairable mechanical systems*. Proceedings 3rd International Conference on Mathematical Methods in Reliability – MMR 2002, Trondheim (Norway) 2002, pp. 263-266.
- 2002 P 1380** VAGLIECO B.M., MEROLA S.S., D'ANNA A., D'ALESSIO A. (2002) *Spectroscopic analysis and modeling of particulate formation in a Diesel engine*. Journal of Quantitative Spectroscopy & Radiative Transfer, **73**, pp. 443-450.
- 2002 P 1381** ALLOCCA L., BELLA G., DE VITA A., DI ANGELO L. (2002) *Experimental validation of a GDI spray model*. In SAE Vol. SP-1693 "Direct Injection SI Engine Technology 2002" (ISBN 0-7680-0961-8) SAE Technical Paper 2002-01-1137.
- 2002 P 1383** ESPOSITO CORCIONE F., MEROLA S.S., VAGLIECO B.M. (2002) *Evaluation of temporal and spatial distribution of nanometric particles in a Diesel engine by broadband techniques*. International Journal of Engine Research, **3** (2), pp. 93-101.
- 2002 P 1384** BEATRICE C., BELARDINI P., BERTOLI C., LISBONA M.G., ROSSI SEBASTIANO G.M. (2002) *Diesel combustion control in common rail engines by new injection strategies*. International Journal of Engine Research, **3** (1), pp. 23-36.
- 2002 P 1385** MEROLA S.S., VAGLIECO B.M., ESPOSITO CORCIONE F., FORMISANO G. (2002) *Spectral analysis of combustion process of common rail Diesel engine*. In SAE Vol. SP-1713 "Diesel Engine Experiments" (ISBN 0-7680-1005-5), SAE Technical Paper 2002-01-1634.
- 2002 P 1386** GAMBINO M., IANNACCONE S. (2002) *Motori a gas naturale*. Proceedings International Symposium Energy and Environment 2002, Capri (Italy) 2002, pp. 145-155.
- 2002 P 1387** RAPONE M. (2002) *Traffic and environment*. Proceedings International Symposium Energy and Environment 2002, Capri (Italy) 2002, pp. 373-382.
- 2002 P 1388** DI LORENZO A. (2002) *Transport policy and air quality in urban areas. An euro-mediterranean project*. Proceedings International Symposium Energy and Environment 2002, Capri (Italy) 2002, pp. 365-371.
- 2002 P 1389** BEATRICE C., BELARDINI P., BERTOLI C., MIGLIACCIO M.NA, GUIDO C. (2002) *Combustion control by multiple injection in common rail D.I. engines*. Proceedings Combustion and Sustainable Development – XXV Event of Italian Section of The Combustion Institute, Rome (Italy) (Italy) 2002, pp. III.13-III.16.
- 2002 P 1390** BEATRICE C., BERTOLI C., DEL GIACOMO N., LAZZARO M., GUIDO C. (2002) *Further knowledge on the effects of fuel formulation on Diesel combustion*. Proceedings Combustion and Sustainable Development – XXV Event of Italian Section of The Combustion Institute, Rome (Italy) (Italy) 2002, pp. III.17-III.20.
- 2002 P 1391** BEATRICE C., BERTOLI C., DEL GIACOMO N., MIGLIACCIO M.NA (2002) *DEAL: a new concept of Diesel combustion*. Proceedings Combustion and Sustainable Development – XXV Event of Italian Section of The Combustion Institute, Rome (Italy) (Italy) 2002, pp. III.21-III.24.
- 2002 P 1392** BORGHESE A., BASILE G., D'ALESSIO A. (2002) *Ultraviolet light absorption in flames, engine exhausts and urban atmosphere*. Proceedings Combustion and Sustainable Development – XXV Event of Italian Section of The Combustion Institute, Rome (Italy) (Italy) 2002, pp. VI.39-VI.42.
- 2002 P 1393** BERETTA F., BORGHESE A., CASCIO G., D'ALESSIO A., PINI A. (2002) *Aspetti ambientali della combustione stazionaria*. Proceedings Combustion and Sustainable Development – XXV Event of Italian Section of The Combustion Institute, Rome (Italy) (Italy) 2002, pp. VII.21-VII.24.
- 2002 P 1395** ALLOCCA L., DE VITA A., DI ANGELO L. (2002) *Time and space evolution of a GDI spray for S.I. engines at different ambient backpressures*. Proceedings FISITA 2002 World Automotive Congress, Helsinki (Finland) 2002, Paper F02V227.
- 2002 P 1396** DELLA RAGIONE L., MECCARIELLO G., PRATI M. V., RAPONE M. (2002) *Application to different case studies of a new statistical approach for real use average emissions modelling*. Proceedings FISITA 2002 World Automotive Congress, Helsinki (Finland) 2002, Paper F02E041.
- 2002 P 1397** CORBO P., ESPOSITO CORCIONE F., MIGLIARDINI F., VENERI O. (2002) *Application of fuel cells to electric vehicles*. Proceedings International Symposium Energy and Environment 2002, Capri (Italy) 2002, pp. 413-424.
- 2002 P 1398** PACIOLLA A., LANDRI G., POLLETTA A. (2002) *Marine air pollution prevention: an overview of global and local regulations*. Proceedings 3rd International Congress on Maritime Innovations and Research, Bilbao (Spain), pp. 363-374.
- 2002 P 1399** ESPOSITO CORCIONE F. (2002) *I progressi della ricerca auto-motoristica*. La Termotecnica, **56** (4), pp. 35-44.
- 2002 P 1400** PULCINI G. (2002) *Correction to: How to model reliability-growth when times of design modifications are known*. IEEE Transactions on Reliability, **51** (2), pp. 252-253.

- 2002 P 1402** ESPOSITO CORCIONE F. (2002) *I sistemi di propulsione per veicoli a basse emissioni*. La Chimica e l'Industria, **84** (5), pp. 15-18.
- 2002 P 1403** DE VITA A., DI ANGELO L., ALLOCCA L. (2002) *Early injection and time-resolved evolution of a spray for GDI engines*. Proceedings ASME 2002 Fluids Engineering Division Summer Meeting, Montreal (Canada) 2002, Paper FEDSM2002-31165.
- 2002 P 1404** COSTA M., MEROLA S.S., VAGLIECO B.M. (2002) *Multidimensional modelling and spectroscopic analysis of the soot formation process in a Diesel engine*. Proceedings 2002 SAE Automotive and Transportation Technology Congress & Exhibition, Paris (France) 2002, SAE Technical Paper 2002-01-2161.
- 2002 P 1405** ALLOCCA L., DE VITA A., DI ANGELO L. (2002) *Experimental study of a CR Diesel spray*. Proceedings 18th Annual Conference on Liquid Atomization and Spray Systems – ILASS Europe 2002, Zaragoza (Spain) 2002.
- 2002 P 1406** ALLOCCA L., DE VITA A., DI ANGELO L. (2002) *Wall-impingement analysis of a spray from a Common Rail injection system for Diesel engines*. Proceedings Conference on Thermo- and Fluid Dynamic Processes in Diesel Engines – THIESEL 2002, Valencia (Spain) 2002, pp. 67-76.
- 2002 P 1407** BEATRICE C., BERTOLI C., DEL GIACOMO N., MIGLIACCIO M.NA (2002) *Looking at new concepts for ultra-low emission Diesel combustion system*. In ICE Vol. 39 "Design, Application, Performance and Emissions of Modern Internal Combustion Engine Systems and Components", ASME (New York), pp. 79-87 (ISBN 0791846628).
- 2002 P 1411** ESPOSITO CORCIONE F., COSTA M., BIANCHI G.M., CAZZOLI G., PELLONI P. (2002) *Multidimensional modeling of the combustion process in a common rail Diesel engine*. In "Applied Simulation and Modelling" (L. Ubertini, Ed.), IASTED (Anaheim), pp. 599-644 (ISBN 0-88986-334-2).
- 2002 P 1412** BEATRICE C., BERTOLI C., MIGLIACCIO M.NA (2002) *Basic concepts of the homogeneous charge compression ignition engines*. ATA, **55** (7/8), pp. 226-234.
- 2002 P 1414** ESPOSITO CORCIONE F. (2002) *Il veicolo del futuro per un ambiente sostenibile*. Protecta, **16** (7/9), pp.154-156.
- 2002 P 1415** CARDONE M., PRATI M.V., ROCCO V., SEGGIANI M., SENATORE A., VITOLO S. (2002) *Brassica carinata as an alternative oil crop for the production of biodiesel in Italy: engine performance and regulated and unregulated exhaust emissions*. Environmental Science & Technology, **36** (21), pp. 4656-4662.
- 2002 P 1418** DI STASIO S., ONISCHUK A.A., BAKLANOV A.M. (2002) *Synthesis and characterization of two-phase Zn - ZnO nanoparticles*. Proceedings 6th International Aerosol Conference, Taipei (Taiwan) 2002, pp. 343-344.
- 2002 P 1422** AURIEMMA M., CAPUTO G., ESPOSITO CORCIONE F., VALENTINO G. (2002) *Analysis of a fuel spray for DISI engines and its interaction with the tumble flow*. Proceedings 24th IEA Task Leaders Meeting on Energy Conservation and Emissions Reduction in Combustion, Trondheim (Norway) 2002, pp. 13-22.
- 2002 P 1423** ESPOSITO CORCIONE F., MEROLA S.S., VAGLIECO B.M., MANCARUSO E. (2002) *Optical diagnostics of in-cylinder Diesel combustion with high-pressure multiple injection*. Proceedings 24th IEA Task Leaders Meeting on Energy Conservation and Emissions Reduction in Combustion, Trondheim (Norway) 2002, pp. 55-68.
- 2002 P 1426** BEATRICE C., BERTOLI C., DEL GIACOMO N., GUIDO C., MIGLIACCIO M.NA (2002) *In-cylinder soot evolution analysis in a transparent research DI Diesel engine fed by oxygenated fuels*. Proceedings 2002 SAE Powertrain & Fluid Systems Conference & Exhibition, San Diego (USA) 2002, SAE Paper 2002-01-2851.
- 2002 P 1427** DE LUCA L., COSTA M., CARAMIELLO C. (2002) *Energy growth of initial perturbations in two-dimensional gravitational jets*. Physics of Fluids, **14** (1), pp. 289-299.
- 2002 P 1428** ESPOSITO CORCIONE F., COSTA M., MEROLA S.S., VAGLIECO B.M. (2002) *In-chamber analysis of pollutants formation in Diesel combustion by spectral measurements and numerical simulations*. Abstracts 12th International Multidimensional Engine Modeling User's Group Meeting, Detroit (USA) 2002.
- 2002 P 1477** D'ALESSIO J., LAZZARO M., MASSOLI P., MOCCIA V. (2002) *Absorption spectroscopy of toluene pyrolysis*. Optics and Lasers in Engineering, **37** (5), pp. 495-508.
- 2002 P 1478** CALABRIA R., MASSOLI P. (2002) *GSI out of focus imaging technique to study absorbing sprays*. Abstracts 11th International Symposium on Applications of Laser Techniques to Fluid Mechanics, Lisbon (Portugal) 2002, Paper 10.4.
- 2002 P 1512** MASSOLI P., CALABRIA R. (2002) *Diagnostica ottica per lo sviluppo di sistemi a basso impatto ambientale*. Proceedings 7° Convegno Nazionale su Strumentazione e Metodi di Misura Elettroottici – Elettroottica 2002, Montecatini Terme (Italy) 2002, pp. 141-148.
- 2002 P 1518** CALABRIA R., MASSOLI P. (2002) *Caratterizzazione di spray in regime evaporativo mediante una tecnica di visualizzazione "fuori fuoco"*. Proceedings 7° Convegno Nazionale su Strumentazione e Metodi di Misura Elettroottici – Elettroottica 2002, Montecatini Terme (Italy) 2002, pp. 393-396.

2003

- 2003 P 1372** ESPOSITO CORCIONE F., VAGLIECO B.M., CORCIONE E.G., LAVORGNA M. (2003) *Potential of multiple injection strategy for low emission Diesel engines*. SAE 2002 Transactions "Journal of Engines", **111**, pp. 2021-2027.
- 2003 P 1373** ESPOSITO CORCIONE F., MEROLA S.S., VAGLIECO B.M. (2003) *Absolute NO and OH concentrations during Diesel combustion process by multiwavelength absorption spectroscopy*. SAE 2002 Transactions "Journal of Engines", **111**, pp. 1530-1536.
- 2003 P 1394** BIANCHI G.M., CAZZOLI G., PELLONI P., ESPOSITO CORCIONE F. (2003) *Numerical study towards smoke-less and NOx-less HSDI Diesel engine combustion*. SAE 2002 Transactions "Journal of Engines", **111**, pp. 1855-1871.
- 2003 P 1401** DEL GIACOMO N., BERTOLI C., BEATRICE C., MIGLIACCIO M.NA, GUIDO C. (2003) *Potentiality of the modern engines fed by new Diesel fuels to approach the future European emission limits*. SAE 2002 Transactions "Journal of Fuels and Lubricants", **111**, pp. 1767-1783.

- 2003 P 1420** DI STASIO S., DAL SANTO V. (2003) *Experiments on surface reaction of NO₂, O₂ with metallic Zn nanostructures fabricated via aerosol route*. Abstracts European Aerosol Conference 2003, Madrid (Spain) 2003, Vol. 1, pp. S563-S564.
- 2003 P 1421** RAPONE M., DELLA RAGIONE L., MECCARIELLO G., D'AMBRA L. (2003) *An application for the evaluation of vehicle emission in real use by linear PLS*. Proceedings Convegno SIS 2003 su Analisi Statistica Multivariata, Napoli (Italy) 2003.
- 2003 P 1424** VALENTINO G., AURIEMMA M., CAPUTO G., ESPOSITO CORCIONE F. (2003) *Analysis of the injection pressure on GDI fuel spray atomization and its interaction with the tumble flow*. Proceedings 3rd Mediterranean Combustion Symposium, Marrakech (Maroc) 2003, pp. 500-510.
- 2003 P 1425** AURIEMMA M., DIANA S., POLICE G., VALENTINO G., PONTOPPIDAN M. (2003) *Experimental and numerical study of spray generated by a high pressure gasoline swirl injector*. SAE 2002 Transactions "Journal of Fuels and Lubricants", **111**, pp. 1241-1251.
- 2003 P 1429** POLICE G., DI GAETA A., GIGLIO V., IORIO B. (2003) *Analysis of advantages and of problems of electromechanical valve actuators*. SAE 2002 Transactions "Journal of Engines", **111**, pp. 1768-1779.
- 2003 P 1430** MEROLA S.S., VAGLIECO B.M., ESPOSITO CORCIONE F., MANCARUSO E. (2003) *In-cylinder combustion analysis by flame emission spectroscopy of transparent CR Diesel engine*. In SAE Vol. SP-1748 "Combustion and Flow Diagnostics" (ISBN 0-7680-1171-X), SAE Technical Paper 2003-01-1112.
- 2003 P 1431** MEROLA S.S., VAGLIECO B.M., MANCARUSO E. (2003). *Soot formation analysis by multiwavelength spectroscopy in an external chamber Diesel engine equipment with a CR injection system*. In SAE Vol. SP-1748 "Combustion and Flow Diagnostics" (ISBN 0-7680-1171-X), SAE Technical Paper 2003-01-1111.
- 2003 P 1432** MEROLA S.S., VAGLIECO B.M., ZARINCHANG J. (2003) *Simultaneous detection of Nox and particulate in exhaust of a CR Diesel engine by UV-visible spectroscopy*. In SAE Vol. SP-1757 "Emission Measurement & Testing 2003" (ISBN 0-7680-1182-5), SAE Technical Paper 2003-01-0786.
- 2003 P 1433** AURIEMMA M., CAPUTO G., ESPOSITO CORCIONE F., VALENTINO G., RIGANTI G. (2003) *Fluid-dynamic analysis of the intake system for a HDDI Diesel engine by STAR-CD code and LDA technique*. In SAE Vol. SP-1740 "Computer-Aided Engineering of Vehicle and Engine Systems and Components", pp. 21-28 (ISBN 0-7680-1162-0), SAE Technical Paper 2003-01-0002.
- 2003 P 1434** ESPOSITO CORCIONE F., VAGLIECO B.M., ESPOSITO CORCIONE G., VITALE G., CARPENTIERI F. (2003) *Multiple injection strategies for low emissions of a new small Common Rail D.I. Diesel engine*. Proceedings 4th Congress Engine Combustion Processes: Current Problems and Modern Techniques, München (Germany) 2003, pp. 143-156.
- 2003 P 1438** MEROLA S.S., VAGLIECO B.M., MANCARUSO E. (2003) *Analysis of combustion process in a transparent common rail Diesel engine by 2D digital imaging and flame emission spectroscopy*. Proceedings ASME Spring Technical Conference – ICED 2003, Salzburg (Austria) 2003, Paper ICES 2003-644.
- 2003 P 1439** BEATRICE C., BELARDINI P., BERTOLI C., DEL GIACOMO N., MIGLIACCIO M.NA (2003) *Downsizing of Common Rail D.I. engines: influence of different injection strategies on combustion evolution*. Proceedings 2003 JSAE/SAE International Spring Fuels & Lubricants Meeting, Yokohama (Japan) 2003, SAE Technical Paper 2003-01-1784.
- 2003 P 1440** ESPOSITO CORCIONE F., VAGLIECO B.M., CORCIONE E.G., LAVORGNA M., LANZAFAME R. (2003) *Study of the combustion system of a new small ID Diesel engine with advanced common rail injection system*. Proceedings 2003 JSAE/SAE International Spring Fuels & Lubricants Meeting, Yokohama (Japan) 2003, SAE Technical Paper 2003-01-1782.
- 2003 P 1441** ESPOSITO CORCIONE F., SIANO D., IADEVAIA M., VISCARDI M., CORCIONE E.G. (2003) *Correlation between the acoustic intensity measurements with and without an electronically fuel injection system for a small single cylinder Diesel engine*. Proceedings 5th European Conference on Noise Control, Napoli (Italy) 2003, Paper 334.
- 2003 P 1442** PULCINI G. (2003) *Mechanical Reliability and Maintenance Models*. Chapter 18 of the book "Handbook of Reliability Engineering" (H. Pham, Edt.), Springer-Verlag (London), pp. 317-348 (ISBN 1-85233-453-3).
- 2003 P 1443** GUIDA M., PULCINI G. (2003) *Bayes inference for a bounded failure intensity process*. In "Safety and Reliability" (T. Bedford & P.H.A.J.M. van Gelder, Eds), Swets & Zeitlinger (Lisse), pp. 727-734 (ISBN 90-5809-551-7).
- 2003 P 1444** RAPONE M., DELLA RAGIONE L., PRATI M.V., MECCARIELLO G. (2003) *Influence of the driving cycle on average emissions: development of the regression model for a case study*. Proceedings 12th International Symposium on Transport and Air Pollution, Avignon (France) 2003, Vol. 2, pp. 197-202.
- 2003 P 1445** CIOFFI V., FLAUTI G., COSTA M. (2003) *A model for pressure cycle for a highly diluted SI engine for hardware in the loop ECU testing*. Proceedings 4th ATA International Conference on Control and Diagnostics in Automotive Applications – CD AUTO 03, Sestri Levante (Italy) 2003, Paper 03A2024.
- 2003 P 1446** BOTTE V., ESPOSITO CORCIONE F., COSTA M., DENARO F.M., DE STEFANO G. (2003) *An object oriented finite volume code for multithreaded computations of 3-D viscous flows on unstructured grids*. In "Computational Methods and Experimental Measurements XI" (C.A. Brebbia, G.M. Carlomagno & P. Anagnostopoulos, Eds), WIT Press (Southampton), pp. 527-536 (ISBN 1-85312-969-0).
- 2003 P 1447** ESPOSITO CORCIONE F. (2003) *I sistemi di propulsione e i combustibili per veicoli a basse emissioni*. Quaderno CERMET per l'Ambiente, 2003 (4), pp. 11-15.
- 2003 P 1448** BEATRICE C., BERTOLI C., MIGLIACCIO M.NA, GUIDO C., MINCIONE G. (2003) *New "SuperDiluted - Low Temperature" combustion concepts: advantages and constraints for ULEV Diesel engines applications*. Proceedings 4th ATA International Conference on Control and Diagnostics in Automotive Applications – CD AUTO 03, Sestri Levante (Italy) 2003, Paper 03A2036.
- 2003 P 1449** ALLOCCA L., DE VITA A., ROSA P. (2003) *Experimental and numerical analysis of sprays from a CR Diesel injector*. Proceedings 9th International Conference on Liquid Atomiza-

- tion and Spray Systems – ICLASS 2003, Sorrento (Italy) 2003, Paper 14.15.
- 2003 P 1450** CALABRIA R., CASABURI A., MASSOLI P. (2003) *Investigation of burning sprays applying GSI out-of-focus technique*. Proceedings 9th International Conference on Liquid Atomization and Spray Systems – ICLASS 2003, Sorrento (Italy) 2003, Paper 7.7.
- 2003 P 1451** CALABRIA R., CASABURI A., MASSOLI P. (2003) *Improved GSI out-of-focus technique for application to dense sprays and PIV measurements*. Proceedings 9th International Conference on Liquid Atomization and Spray Systems – ICLASS 2003, Sorrento (Italy) 2003, Paper 10.6.
- 2003 P 1452** COSTA M. (2003) *The two vortex sheets model in the description of jet instabilities*. Proceedings 9th International Conference on Liquid Atomization and Spray Systems – ICLASS 2003, Sorrento (Italy) 2003, Paper 2.8.
- 2003 P 1453** BEATRICE C., BELARDINI P., BERTOLI C., DEL GIACOMO N., MIGLIACCIO M. (2003) *Spray evolution in small bore d.i. Diesel engines with different injection strategies*. Proceedings 9th International Conference on Liquid Atomization and Spray Systems – ICLASS 2003, Sorrento (Italy) 2003, Paper 14.12.
- 2003 P 1454** AURIEMMA M., CAPUTO G., VALENTINO G., ZARINGHANG J. (2003) *Fluid dynamic investigation of fuel spray for SIDI engines by Particle Image Velocimetry*. Proceedings 9th International Conference on Liquid Atomization and Spray Systems – ICLASS 2003, Sorrento (Italy) 2003, Paper 14.34.
- 2003 P 1456** DE VITA A., ALLOCCA L. (2003) *Experimental analysis and CFD simulation of GDI sprays*. In SAE Vol. SP-1740 "Computer-Aided Engineering of Vehicle and Engine Systems and Components", pp. 45-56 (ISBN 0-7680-1162-0), SAE Technical Paper 2003-01-0004.
- 2003 P 1457** ESPOSITO CORCIONE F., SIANO D., VAGLIECO B.M., CORCIONE E.G., LAVORGNA M., VISCARDI M., IADEVAIA M., LECCE L. (2003) *Analysis and control of noise emissions of a small single cylinder D.I. Diesel engine*. Proceedings 2003 SAE Noise & Vibration Conference, Traverse City (USA) 2003, SAE Paper 2003-01-1459.
- 2003 P 1458** BEATRICE C., BERTOLI C., MIGLIACCIO M., DEL GIACOMO N., GUIDO C., MINCIONE G. (2003) *Combustione a bassa temperatura per motori ad accensione per compressione a bassissime emissioni: l'approccio dell'Istituto Motori*. Proceedings 58° Congresso Annuale ATI, Padova (Italy) 2003, Vol. II, pp. 1215-1226.
- 2003 P 1460** CIOFFI V., FLAUTI G., COSTA M. (2003) *A combustion model for calibration of the electronic control unit of a highly diluted SI engine*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-06.
- 2003 P 1461** CORBO P., ESPOSITO CORCIONE F., MIGLIARDINI F., VENERI O. (2003) *Fuel cell power train for electric vehicles*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-34.
- 2003 P 1462** PIEGARI L., TORTORA C., VENERI O. (2003) *Ability of lead acid storage batteries to recover energy during braking of electric road vehicles*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-38.
- 2003 P 1463** MEROLA S.S., VAGLIECO B.M. (2003) *Spectroscopic characterisation of nanoparticle modes at the exhaust of a CR Diesel engine equipped with particulate filter*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-54.
- 2003 P 1464** MEROLA S.S., VAGLIECO B.M., DI IORIO S., MANCARUSO E. (2003) *Soot temperature and concentration in a transparent CR DI Diesel engine*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-70.
- 2003 P 1465** ALLOCCA L., DE VITA A., ROSA P. (2003) *Wall impingement of CR Diesel sprays: experimental and numerical analysis*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-73.
- 2003 P 1466** DELLA RAGIONE L., MECCARIELLO G., RAPONE M., PUNZO V., TORRIERI V. (2003) *Some comparisons between experimental emission data and simulation output of behavioral acceleration and PLS regression-based emission models*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-57.
- 2003 P 1467** PRATI M.V., RAPONE M., COSTAGLIOLA M.A. (2003) *Unregulated emissions of different technology Diesel cars*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-60.
- 2003 P 1468** DELLA RAGIONE L., MECCARIELLO G., PRATI M. V., RAPONE M. (2003) *The effect of different kinematic aspects on emission factors of Diesel cars*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-62.
- 2003 P 1469** BIANCHI G.M., CAZZOLI G., PELLONI P., MAUSS F., MEROLA S.S., VAGLIECO B.M., MANCARUSO E. (2003) *Assessment of flamelet soot library approach in Diesel engine simulations: a comparison with experiments*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-77.
- 2003 P 1470** CORBO P., MIGLIARDINI F., CIAMBELLI P., MAGLIANO A. (2003) *Fuels for hydrogen production in fuel cell applications*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-31.
- 2003 P 1471** AURIEMMA M., CAPUTO G., ESPOSITO CORCIONE F., VALENTINO G. (2003) *Investigation on droplets size and velocity distribution of a gasoline spray for SIDI engines*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-28.
- 2003 P 1472** ALLOCCA L., ALFUSO S., ESPOSITO CORCIONE F. (2003) *Assessment of dynamic performances of Diesel solenoid injectors for a multiple injection Common Rail system*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-21.
- 2003 P 1473** ALLOCCA L., ESPOSITO CORCIONE F., COSTA M., VAGLIECO B.M., PALMESANO G. (2003) *Mixture formation prediction by the FIRE code in an optical CR DI Diesel engine*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-81.

- 2003 P 1474** BATTISTELLI C., CONTI L., CREBELL R., IAMICELI A.L., TURRIO BALDASSARRI L., GAMBINO M., IANNACCONE S. (2003) *Evaluation of exhaust emission toxicity of heavy duty engines. Part II: regulated and unregulated emissions with Diesel fuel and natural gas*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-65.
- 2003 P 1475** ESPOSITO CORCIONE F., SIANO D., VISCARDI M. (2003) *Noise control methodology of a small Diesel engine*. Proceedings 6th International Conference on Engines for Automobile – ICE2003, Capri (Italy) 2003, Paper SAE_NA 2003-01-65.
- 2003 P 1476** ONISCHUK A.A., DI STASIO S., KARESEV V.V., BAKLANOV A.M., MAKLOV G.A., VLASENKO A.L., SADYKOVA A.R., SHIPOVALOC A.V., PANFILOV V.N. (2003) *Evolution of structure and charge of soot aggregates during and after formation in a propane/air diffusion flame*. Journal of Aerosol Science, **34** (4), pp. 383-403.
- 2003 P 1479** DI STASIO S., ONISCHUK A.A., BARATTO C., SBERVEGLIERI G. (2003) *Gas sensing properties of zinc/zinc oxide nanofibers: detection of NO₂ at sub-ppm concentrations*. Abstracts European Aerosol Conference 2003, Madrid (Spain) 2003, Vol. 1, pp. S565-S566.
- 2003 P 1480** VALENTINO G. (2003) *Particle image velocimetry for mixture formation investigation in a GDI prototype engine*. In SPIE Vol. 5191 "Optical Diagnostics for Fluids, Solids, and Combustion II" (P. V. Farrel et al., Eds), SPIE (Bellingham, USA), pp. 59-65 (ISBN 0-8194-5064-2).
- 2003 P 1481** VALENTINO G., AURIEMMA M., CAPUTO G., ESPOSITO CORCIONE F. (2003) *Analysis of a fuel spray for GDI engines and its interaction with the tumble flow by PDA and PIV*. Proceedings 16th Annual Conference on Liquid Atomization and Spray Systems – ILASS Americas, Monterey (USA) 2003.
- 2003 P 1493** PIEGARI L., TORTORA C., VENERI O. (2003) *Gli accumulatori al piombo per veicoli elettrici stradali*. Proceedings 14° Seminario Interattivo ANAE su Azionamenti Elettrici: Evoluzione Tecnologica e Problematiche Emergenti, Bressanone (Italy) 2003, Vol. I, pp. 199-241.
- 2003 P 1495** BERTOLI C. (2003) *Il motore a combustione, questo sconosciuto*. Analysis, 2003 (3), pp. 27-40.
- 2003 P 1506** CORBO P., ESPOSITO CORCIONE F., MIGLIARDINI F., VENERI O. (2003) *Applicazione delle celle a combustibile ai ciclomotori elettrici*. Proceedings 14° Seminario Interattivo ANAE su Azionamenti Elettrici: Evoluzione Tecnologica e Problematiche Emergenti, Bressanone (Italy) 2003, Vol. II, pp. 84-99.
- 2003 P 1508** IANNUZZI D., PAGANO E., PIEGARI L., VENERI O. (2003). *Generator operations of asynchronous induction machines connected to ac or dc active/passive electrical networks*. Mathematics and Computers in Simulation, **63** (3-5), pp. 449-459.
- 2003 P 1510** DI STASIO S. (2003) *Experiments of Static Light Scattering to investigate in situ carbon and metal agglomerates of nanoparticles synthesized in gas-phase processes*. Chapter 39 of the book "Recent Research Development in Applied Physics (Vol. 6, Part II)", Transworld Research Network (Kerala), pp. 867-911 (ISBN 81-7895-085-5).
- 2003 P 1513** BORGHESE A., PRATI M.V., SPERANZA L., SGRO L.A., MINUTOLO P. (2003) *Nano-sized organic carbon emissions of an in-use vehicle powered with a 'Common Rail' Diesel engine*. Proceedings Joint Meeting of The Scandinavian-Nordic and Italian Sections of The Combustion Institute, Ischia (Italy) 2003, pp. 5.6.1-4.
- 2003 P 1514** APICELLA B., DI PALMA T.M., ALFÈ M. (2003) *The perspective of TOF mass spectrometry application for on-line analysis of light hydrocarbons, PAH and particulates from combustion processes*. Proceedings Joint Meeting of The Scandinavian-Nordic and Italian Sections of The Combustion Institute, Ischia (Italy) 2003, pp. 6.2.1-4.
- 2003 P 1515** AVOLIO G., BEATRICE C., GUIDO C., DEL GIACOMO N., MIGLIACCIO M.NA (2003) *Future trends in fuel design for compression ignition engines*. Proceedings Joint Meeting of The Scandinavian-Nordic and Italian Sections of The Combustion Institute, Ischia (Italy) 2003, pp. 8.6.1-4.
- 2003 P 1516** BERTOLI C., MIGLIACCIO M.NA, AVOLIO G., GUIDO C., MINCIONE G. (2003) *The effect of oxygenated fuels on in-cylinder soot evolution via two-colour pyrometry technique*. Proceedings Joint Meeting of The Scandinavian-Nordic and Italian Sections of The Combustion Institute, Ischia (Italy) 2003, pp. 8.7.1-4.
- 2003 P 1517** BEATRICE C., BELARDINI P., BERTOLI C., MIGLIACCIO M.NA, MINCIONE G. (2003) *The evolution of fuel injection equipment for very small displacement Diesel engine*. Proceedings Joint Meeting of The Scandinavian-Nordic and Italian Sections of The Combustion Institute, Ischia (Italy) 2003, pp. 8.8.1-4.
- 2003 P 1521** IANNUZZI D., PAGANO E., PIEGARI L., VENERI O. (2003). *Asynchronous generations over power electronic devices*. Electrical Engineering Research Report, **15**.
- 2003 P 1527** IORIO B., GIGLIO V., POLICE G., RISPOLI N. (2003) *Methods of pressure cycle processing for engine control*. In SAE Vol. SP-1749 "Electronic Engine Controls 2003" (ISBN 0-7680-1172-8), SAE Technical Paper 2003-01-0352.
- 2003 P 1566** RAPONE M., DELLA RAGIONE L., PRATI M.V., IACCIO I., MECCARIELLO G. (2003) *La determinazione dei fattori di emissione: metodi ed esperienze dell'Istituto Motori CNR*. Giornata di Studio su Circolazione dei Mezzi Pesanti in Area Urbana: Fattori di Emissione, Ipotesi di Intervento e Soluzioni, Bologna (Italy) 2003.
- 2003 P** SGRO L.A., BASILE G., BARONE A.C., D'ANNA A., MINUTOLO P., BORGHESE A., D'ALESSIO A. (2003) *Detection of combustion formed nanoparticles*. Chemosphere, **51** (10), pp. 1079-1090.
- 2003 P 1638** COLELLA C., CAPUTO D., CORBO P., EIC M., IUCOLANO F., MIGLIARDINI F. (2003) *Zeolitic materials as sorbents in the purification and separation of gases*. Proceedings IV Convegno Nazionale sulla Scienza e Tecnologia dei Materiali – INSTM, Ischia Porto (Italy) 2003, Paper C55.

2004

- 2004 P 1500** GAMBINO M., IANNACCONE S., PIDRIA M.F., MILETTO G., ROLLERO M. (2004) *Natural gas engine and catalyst deactivation: accelerated ageing tests*. Proceedings 2004 FISITA World Automotive Congress, Barcelona (Spain) 2004, Paper F2004F264.

- 2004 P 1501** BOZZA F., GIMELLI A., SIANO D., TORELLA E., MASTRANGELO G. (2004) *A quasi-dimensional three-zone model for performance and combustion noise evaluation of a twin-spark high-EGR engine*. In SAE Vol. SP-1830 "Modeling of Spark Ignition Engines" (ISBN 0-7680-1366-6), SAE Technical Paper 2004-01-0619.
- 2004 P 1502** MEROLA S.S., VAGLIECO B.M., MANCARUSO E. (2004) *Multiwavelength ultraviolet absorption spectroscopy of NO and OH radical concentration applied to a high-swirl Diesel-like system*. Experimental Thermal and Fluid Science, **28**, pp. 355-367.
- 2004 P 1505** CORBO P., ESPOSITO CORCIONE F., MIGLIARDINI F., VENERI O. (2004) *Studio sperimentale di un propulsore elettrico con celle a combustibile*. Proceedings 15° Seminario Interattivo ANAE su Azionamenti Elettrici: Evoluzione Tecnologica e Problematiche Emergenti, Bressanone (Italy) 2004, pp. 189-208.
- 2004 P 1507** BEATRICE C., BERTOLI C., MIGLIACCIO M. (2004) *Potential application of Homogeneous Charge Compression Ignition (HCCI) engines for future low emission vehicles*. ATA Ingegneria dell'Autoveicolo, **57** (1/2), pp. 46-54.
- 2004 P 1509** DI STASIO S., DAL SANTO V., CARUSO B. (2004) *Microscopy, light scattering and IR-spectroscopy characterization of Zn/ZnO nanostructures fabricated by aerosol route*. Proceedings International Congress for Particle Technology – Partec 2004, Nürnberg (Germany) 2004, Paper 21.4.
- 2004 P 1511** ALLOCCA L., ALFUSO S., SENATORE A., CARDONE M., MONTANARO A. (2004) *Optical characterization of biodiesel and Diesel fuel sprays from a CR injection apparatus*. Proceedings 2004 FISITA World Automotive Congress, Barcelona (Spain) 2004, Paper F2004V179.
- 2004 P 1519** BARATTO C., SBERVEGLIERI G., ONISCHUK A., CARUSO B., DI STASIO S. (2004) *Low temperature selective NO₂ sensors by nanostructured fibres of ZnO*. Sensors and Actuators B, **100**, pp. 261-265.
- 2004 P 1520** TURRIO BALDASSARRI L., BATTISTELLI C.L., CONTI L., CREBELL R., DE BERARDIS B., IAMICELI A.L., GAMBINO M., IANNACCONE S. (2004) *Emission comparison of urban bus engine fueled with Diesel oil and 'biodiesel' blend*. Science of the Total Environment, **327** (1-3), pp. 147-162.
- 2004 P 1522** ALLOCCA L., ESPOSITO CORCIONE F., COSTA M. (2004) *Numerical and experimental analysis of multiple injection Diesel sprays*. In SAE Vol. SP-1886 "Modeling for SI and Diesel Engines" (ISBN 978-0-7680-1480-8), SAE Technical Paper 2004-01-1879.
- 2004 P 1523** PRATI M.V. (2004) *Ecco i controlli per auto e moto*. Villaggio Globale, **VII** (26), pp. 11-15.
- 2004 P 1524** DI IORIO S., MANCARUSO E., MEROLA S.S., VAGLIECO B.M. (2004) *Radical species in optical CR Diesel engine: effect of fuel injection strategies*. Proceedings Joint Meeting of The Italian and Greek Sections of The Combustion Institute, Corfu (Greece) 2004.
- 2004 P 1525** MEROLA S.S., VAGLIECO B.M., ESPOSITO CORCIONE F. (2004) *Experimental investigations of abnormal combustion in S.I. engine by correlation of ion current and optical measurements*. Proceedings Joint Meeting of The Italian and Greek Sections of The Combustion Institute, Corfu (Greece) 2004.
- 2004 P 1526** BELARDINI P., BERTOLI C., DE MARINO P., AVOLIO G. (2004) *A new parallel numerically improved KIVA3V program for Diesel combustion computations*. Proceedings International Multidimensional Engine Modeling User's Group Meeting Agenda, Detroit (USA) 2004.
- 2004 P 1536** ALLOCCA L., DE VITA A., ROSA P. (2004) *GDI and CR Diesel sprays wall impingement analysis*. Proceedings International Conference on Vehicles Alternative Fuel Systems & Environmental Protection – VAFSEP 2004, Dublin (EIRE) 2004, pp. 21-30.
- 2004 P 1537** BATTISTELLI C., CREBELL R., GAMBINO M., IAMICELI A.L., IANNACCONE S., TURRIO BALDASSARRI L. (2004) *Regulated and unregulated exhaust emissions and toxicity evaluation of heavy duty engines fuelled with Diesel fuel and natural gas*. Proceedings International Conference on Vehicles Alternative Fuel Systems & Environmental Protection – VAFSEP 2004, Dublin (EIRE) 2004, pp. 81-85.
- 2004 P 1541** VALENTINO G., AURIEMMA M., CAPUTO G., ESPOSITO CORCIONE F. (2004) *Near nozzle PIV measurements and droplets size pattern of a GDI swirled spray*. Proceedings 6th International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines – COMODIA 2004, Yokohama (Japan) 2004, pp. 287-294.
- 2004 P 1542** ESPOSITO CORCIONE F., VAGLIECO B.M., MEROLA S.S. (2004) *Evaluation of knocking combustion by an ion current system and optical diagnostics of radical species*. Proceedings 6th International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines – COMODIA 2004, Yokohama (Japan) 2004, pp. 487-495.
- 2004 P 1543** ESPOSITO CORCIONE F., COSTA M., ALLOCCA L., GOLOVITCHEV V.I. (2004) *Study of multiple injections and auto-ignition of Diesel sprays in a constant volume vessel*. Proceedings 6th International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines – COMODIA 2004, Yokohama (Japan) 2004, pp. 567-574.
- 2004 P 1545** ALLOCCA L., ALFUSO S., DE VITA A., MONTANARO A., ROSA P. (2004) *Experimental study of high pressure sprays for SIDI engines*. Proceedings 11th International Symposium on Flow Visualization – ISFV11 2004, Notre Dame (USA) 2004 (ISBN 0-9533991-5-X).
- 2004 P 1546** ALLOCCA L., DE VITA A., LAI M.C. (2004) *High pressure Diesel-like injections for GDI engine: experimental and numerical approach*. Proceedings 19th Annual Meeting of the Institute for Liquid Atomization and Spray Systems – ILASS Europe '04, Nottingham (UK) 2004, pp. 289-295.
- 2004 P 1547** ESPOSITO CORCIONE F., DI IORIO S., MANCARUSO E., MEROLA S.S., VAGLIECO B.M. (2004) *Combustion diagnostics of a Diesel engine with multiple injection*. Proceedings Conference on Thermo- and Fluid Dynamic Processes in Diesel Engines – THIESEL 2004, Valencia (Spain) 2004, pp. 297-308.
- 2004 P 1549** BERTOLI C., BELARDINI P. (2004) *Calcolo parallelo per l'uso di cinetiche dettagliate nei modelli di combustione per motori Diesel*. ATA Ingegneria dell'Autoveicolo, **57** (7/8), pp. 32-36.
- 2004 P 1551** DI STASIO S. (2004) *Growth of zinc hollow nanofibers and nanotubes by thermal evaporation-condensation*.

deposition route. Chemical Physics Letters, **393** (4-6), pp. 498-503.

2004 P 1552 ESPOSITO CORCIONE F. (2004) *Uso razionale dell'energia nei trasporti*. Protecta, **18** (7-8), pp. 120-123.

2004 P 1553 RIEFLER N., DI STASIO S., WRIEDT T. (2004) *Structural analysis of clusters using configurational and orientational averaging in light scattering analysis*. Journal of Quantitative Spectroscopy & Radiative Transfer, **89** (1-4), pp. 323-342.

2004 P 1555 MEROLA S.S., VAGLIECO B.M. (2004) *Experimental and modelling characterization of nanometric particles at the exhaust of Common Rail Diesel engine*. Clean Air, **5** (3), pp. 281-194.

2004 P 1558 MEROLA S.S., VAGLIECO B.M. (2004) *Analysis of common rail Diesel engine combustion process by optical diagnostics*. Proceedings International Conference on Automotive Technology – ICAT 2004, Istanbul (Turkey) 2004, pp. 45-59.

2004 P 1565 COSTA M., PALMESANO G., TORELLA G. (2004) *Determination by neural networks of the optimal spark advance of a highly diluted spark ignition engine*. Proceedings International Mediterranean Modelling Multiconference, Berggeggi (Italy) 2004, Vol. 1, pp. 14-21.

2004 P 1582 GAMBINO M., IANNACCONE S. (2004) *The natural gas ecological fuel for transportation*. Proceedings International Conference on Energy, Environment and Technological Innovation – EETI 2004, Rio de Janeiro (Brazil) 2004.

2004 P 1583 DI PALMA T.M., APICELLA B., ARMENANTE M., VELOTTA R., WANG X., SPINELLI N. (2004) *Dissociative electron impact ionization of methyl tert-butyl ether: total ionization cross-section and kinetic energy distributions*. Chemical Physics Letters, **400** (2), pp. 191-195.

2004 P 1595 RAPONE M., MECCARIELLO G., D'AMBRA L. (2004) *Un modello PLS di supporto alle decisioni per l'inquinamento urbano*. Proceedings Convegno su Metodi, Modelli e Tecnologie dell'Informazione a Supporto delle Decisioni – MTISD'04, Benevento (Italy) 2004.

2004 P 1639 CAPUTO D., CORBO P., IUCOLANO F., MIGLIARDINI F., COLELLA C. (2004) *Zeolite-based adsorbers for reducing light hydrocarbon emissions from engine exhaust*. Separation Science and Technology, **39** (7), pp. 1547-1561.

2004 P 1640 CAPUTO D., COLELLA C., IUCOLANO F., CORBO P., MIGLIARDINI F., AIELLO R., CREA F. (2004) *Reduction of hydrocarbon emission from engine exhaust using zeolitic adsorbers*. Studies in Surface Science and Catalysis, **154**, pp. 2034-2040.

2004 P 1641 DI STASIO S., MITCHELL J.B.A., LE GARREC J.L., BIENNIER L. (2004) *Small-angle synchrotron X-ray scattering to investigate <in-situ> the primary particles of soot growing as subparticles clusters in a diffusion flame*. Abstracts European Aerosol Conference – EAC 2004, Budapest (Hungary) 2004, Vol. II, pp. S875-S876.

2004 P 1733 VALENTINO G., AURIEMMA M., CAPUTO G., CORCIONE F.E. (2004) *In-cylinder fuel-air mixture investigation by Particle Image Velocimetry in a GDI engine*. Proceedings 2004 Fall Technical Conference of ASME Internal Combustion Engine Division – ICEF2004, Long Beach (USA) 2004, Paper ICEF2004-924 (ISBN 0-7918-3748-3).

2004 P GLIELMO L., DI GAETA A., SANTINI S., DI GIUSEPPE C., DE CRISTOFORO F., CARACENI A. (2004) *An algorithm for the calibration of wall-wetting model parameters*. In SAE Vol. PT-110 "Electronic Engine Control Technologies, 2nd Edition" (R.K. Jurgen, Ed), SAE (Warrendale, USA), pp. 133-139 (ISBN 0-7680-1339-9).

2004 P MAISTO G., DE NICOLA F., PRATI M. V., ALFANI A. (2004) *Leaf and soil PAH accumulation in an urban area of the Mediterranean region (Naples-Italy)*. Fresenius Environment Bulletin, **13** (11B), pp. 1263-1268.

2004 P CAPUTO D., COLELLA C., IUCOLANO F., CORBO P., MIGLIARDINI F., AIELLO R., CREA F. (2004) *Reduction of hydrocarbon emission from engine exhaust using zeolitic adsorbers*. Studies in Surface Science and Catalysis, **154**, pp. 2034-2040.

2005

2005 P 1417 GUIDA M., PULCINI G. (2005) *Bayesian reliability assessment of repairable systems during multi-stage development programs*. IIE Transactions, **37** (11), pp. 1071-1081.

2005 P 1419 PUNZO V., DELLA RAGIONE L., MECCARIELLO G. (2005) *Un approccio integrato alla valutazione delle emissioni inquinanti dei veicoli: modelli di emissione statistici e modelli di accelerazione comportamentali. Validazioni e confronti*. In "Metodi e Tecnologie dell'Ingegneria dei Trasporti. Seminario 2002" (G.E. Cantarella & F. Russo, Eds), Franco Angeli (Milano), pp. 141-156 (ISBN 88-464-6181-9).

2005 P 1435 ATTARDI L., GUIDA M., PULCINI G. (2005) *A mixed-Weibull regression model for the analysis of automotive warranty data*. Reliability Engineering and System Safety, **87** (2), pp. 265-273.

2005 P 1494 ATTARDI L., PULCINI G. (2005) *A new model for repairable systems with bounded failure intensity*. IEEE Transactions on Reliability, **54** (4), pp. 572-582.

2005 P 1548 BELARDINI P., BERTOLI C., CORSARO S., D'AMBRA P. (2005) *Parallel simulation of combustion in Common Rail Diesel engines by advanced numerical solution of detailed chemistry*. In SAMAS Vol. 69 "Applied and Industrial Mathematics in Italy" (M. Primicerio et al., Eds), World Scientific (Singapore), pp. 112-123 (ISBN 981-256-368-7).

2005 P 1564 ALFANI A., DE NICOLA F., MAISTO G., PRATI M. V. (2005) *Long-term PAH accumulation after bud break in Quercus ilex L. leaves in a polluted environment*. Atmospheric Environment, **39** (2), pp. 307-314.

2005 P 1578 COPPOLA C., CALABRESE A., IAZZETTA A., MELE F., TALAMO O. (2005) *The transformation's control and development*. Proceedings 23rd Education for Computer Aided Architectural Design in Europe Conference – eCAADe 2005, Lisbon (Portugal) 2005, pp. 454-459 (ISBN 0-9541183-2-4).

2005 P 1581 ALLOCCA L., ALFUSO S., MONTANARO A., DE VITA A. (2005) *GDI sprays for s.i. engines: evolution and wall impingement at different operative conditions*. Proceedings 9th International Conference on Energy & Environment, Cairo (Egypt) 2005.

2005 P 1584 CORDINER S., GAMBINO M., IANNACCONE S., ROCCO V., SCARCELLI R. (2005) *On the possibility to reduce emissions of a dual-fuel engine with a new generation of natural gas feeding*

- systems. Proceedings 9th International Conference on Energy & Environment, Cairo (Egypt) 2005.
- 2005 P 1586** D'ERRICO G., MONTENEGRO G., ONORATI A., MEROLA S.S., VAGLIECO B.M. (2005) *Thermo-fluid dynamic modeling and experimental investigation of a turbocharged Common Rail DI Diesel engine*. In SAE Vol. SP-1969 "Modeling of SI and Diesel Engines 2005" (ISBN 0-7680-1614-2), SAE Technical Paper 2005-01-0689.
- 2005 P 1587** BELARDINI P., BERTOLI C., CORSARO S., D'AMBRA P. (2005) *Multidimensional modeling of advanced Diesel combustion system by parallel chemistry*. In SAE Vol. SP-1970 "Multi-Dimensional Engine Modeling 2005" (ISBN 0-7680-1615-0).
- 2005 P 1588** BEATRICE C., BERTOLI C., DEL GIACOMO N., LAZZARO M., MOCCIA V. (2005) *Laser diagnostic of particles exhaust emission from advanced Diesel combustion systems*. In SAE Vol. SP-1941 "Emissions Measurement and Testing 2005" (ISBN 0-7680-1586-3), SAE Technical Paper 2005-01-0188.
- 2005 P 1589** BOCCHETTI D., GIORGIO M., GUIDA M., PULCINI G. (2005) *A wear model for condition-based maintenance of cylinder liners in a naval Diesel engine*. Proceedings 8th International Conference on Quality Management for Organisational and Regional Development – QMOD 2005, Palermo 2005, pp. 815-825 (ISBN 88-902094-1-0).
- 2005 P 1590** ALFUSO S., ALLOCCA L., AURIEMMA M., CAPUTO G., ESPOSITO CORCIONE F., MONTANARO A., VALENTINO G. (2005) *Analysis of a high pressure Diesel spray at high pressure and temperature environment conditions*. In SAE Vol. SP-1977 "Diesel Fuel Injection and Sprays 2005" (ISBN 0-7680-1622-3), SAE Technical Paper 2005-01-1239.
- 2005 P 1591** ALLOCCA L., AURIEMMA M., ESPOSITO CORCIONE F., VALENTINO G., FONTANESI S., GAGLIARDI V., MALAGUTI S., RIGANTI G. (2005) *Investigation of mixture formation process in a HDDI Diesel engine by CFD and imaging technique*. Proceedings 2005 SAE World Congress, Detroit (USA) 2005, SAE Technical Paper 2005-01-1918.
- 2005 P 1592** SENATORE A., CARDONE M., ALLOCCA L., VITOLO S., ROCCO V. (2005) *Experimental characterization of a Common Rail engine fuelled with different biodiesel*. Proceedings 2005 SAE Fuels & Lubricants Meeting and Exhibition, Rio de Janeiro (Brazil) 2005, SAE Technical Paper 2005-01-2207.
- 2005 P 1593** MEROLA S.S., VAGLIECO B.M., TORNATORE C. (2005) *Characterization of nanoparticles at the exhaust of a Common Rail Diesel engine by optical techniques and conventional method*. Proceedings 2005 SAE Fuels & Lubricants Meeting and Exhibition, Rio de Janeiro (Brazil) 2005, SAE Technical Paper 2005-01-2155.
- 2005 P 1594** ALLOCCA L., ESPOSITO CORCIONE F., ALFUSO S., MONTANARO A. (2005) *Spray evolution of a multijet™ injection system for Diesel application*. Abstracts International Symposium on Heat and Mass Transfer in Spray Systems, Antalya (Turkey) 2005, pp. 88-90.
- 2005 P 1596** RAPONE M., PRATI M.V., COSTAGLIOLA M.A., DELLA RAGIONE L., MECCARIELLO G. (2005) *Emission factors determination of Euro III 1200-1400 cc petrol passenger cars by a PLS multivariate regression model*. Proceedings 5th International Conference on Urban Air Quality, Valencia (Spain) 2005, p. 37-40 (ISBN 1-898543-92-5).
- 2005 P 1597** RAPONE M., DELLA RAGIONE L., MECCARIELLO G., PRATI M.V., COSTAGLIOLA M.A. (2005) *Effect of vehicle class and driving behavior on emission factors of gasoline passenger cars*. Proceedings 14th International Symposium on Transport and Air Pollution, Graz (Austria) 2005, Vol. II, pp. 198-205.
- 2005 P 1598** SIANO D., ESPOSITO CORCIONE F., BOZZA F., GIMELLI A., MANELLI S. (2005) *Characterization of the noise emitted by a single cylinder Diesel engine: experimental activities and 1D simulation*. Proceedings 2005 SAE Noise and Vibration Conference, Traverse City (USA) 2005 (ISBN 0-7680-1657-6), SAE Technical Paper 2005-01-2483.
- 2005 P 1599** DI IORIO S., MEROLA S.S., VAGLIECO B.M. (2005) *Analysis of the effect of fatty acid ME on the combustion process in a high swirl CR optical engine*. Proceedings 28th Meeting of the Italian Section of The Combustion Institute on Combustion and Urban Areas, Napoli (Italy) 2005, Paper II-1.
- 2005 P 1600** MEROLA S.S., TORNATORE C., VAGLIECO B.M. (2005) *Particle sizing at the exhaust of common rail Diesel engine by LII and BUVESS*. Proceedings 28th Meeting of the Italian Section of The Combustion Institute on Combustion and Urban Areas, Napoli 2005, Paper II-2.
- 2005 P 1601** MANCARUSO E., MEROLA S.S., VAGLIECO B.M. (2005) *Soot particle sizing in a CR DI Diesel engine by multiwavelength scattering and extinction measurements*. Proceedings 28th Meeting of the Italian Section of The Combustion Institute on Combustion and Urban Areas, Napoli (Italy) 2005, Paper IV-1.
- 2005 P 1602** BERTOLI C., DEL GIACOMO N., LAZZARO M., MOCCIA V. (2005) *Characterization of exhaust emissions from advanced common-rail Diesel engine*. Proceedings 28th Meeting of the Italian Section of The Combustion Institute on Combustion and Urban Areas, Napoli (Italy) 2005, Paper II-4.
- 2005 P 1603** CALABRIA R., CHIARIELLO F., DE BELLIS V., MASSOLI P. (2005) *Combustion behaviour of pyrolysis oil/Diesel oil emulsions*. Proceedings 28th Meeting of the Italian Section of The Combustion Institute on Combustion and Urban Areas, Napoli (Italy) 2005, Paper VI-14.
- 2005 P 1605** BEATRICE C., BERTOLI C., GUIDO C., DEL GIACOMO N., FRUSTERI F. (2005) *Evaluation of an oxygenated synthetic bio-derivable additive for Diesel engine emission improvement*. Proceedings 8th International Conference on Energy for a Clean Environment – CleanAir 2005, Lisbon (Portugal) 2005, Paper 9.2.
- 2005 P 1606** AVOLIO G., BEATRICE C., BERTOLI C., GUIDO C., MIGLIACIO M. (2005) *Influence of advanced Diesel fuel properties on common rail injection system behaviour*. Proceedings 8th International Conference on Energy for a Clean Environment – CleanAir 2005, Lisbon (Portugal) 2005, Paper 25.1.
- 2005 P 1607** AVOLIO G., BEATRICE C., BERTOLI C. (2005) *Development of a single cylinder direct injection Diesel engine for advanced combustion system studies*. Abstracts 11th Expo International Conference on High-Tech Engines and Cars, Modena (Italy) 2005.
- 2005 P 1608** ALLOCCA L., DE VITA A., MEROLA S.S., VAGLIECO B.M. (2005) *Liquid/vapour visualization of common rail diesel*

- sprays in different ambient conditions with visible and UV laser light scattering and PLIF*. In SPIE Vol. 5880 "Optical Diagnostics" (L.M. Hanssen & P.V. Farrel, Eds), SPIE (Bellingham, USA), pp. 219–230 (ISBN 0-8194-5885-6).
- 2005 P 1609** DI IORIO S., MEROLA S.S., VAGLIECO B.M., TORNATORE C. (2005) *Nanoparticles characterization at spark ignition engine exhaust*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0010.
- 2005 P 1610** D'ALESSIO A., D'ANNA A., BARONE A.C., BORGHESE A., SPERANZA L., MINUTOLO P. (2005) *Combustion-generated nanoparticles of organic carbon in flames and engine exhausts*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0011.
- 2005 P 1611** MANCARUSO E., MEROLA S.S., VAGLIECO B.M. (2005) *Soot concentration and particle size in a DI CR Diesel engine by broadband scattering and extinction measurements*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0013.
- 2005 P 1612** SIANO D., ESPOSITO CORCIONE F. (2005) *FE fluid-structure interaction/experimental transmission loss factor comparison of an exhaust system*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0019.
- 2005 P 1613** DI IORIO S., MEROLA S.S., VAGLIECO B.M., TORNATORE C. (2005) *Diesel exhaust nanoparticles characterization by multiwavelength techniques, laser induced incandescence and ELPI*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0021.
- 2005 P 1614** IADEVAIA M., SIANO D. (2005) *Mixed 3D numerical approach on the exhaust radiated noise prediction*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0022.
- 2005 P 1615** RAPONE M., PRATI M.V., DELLA RAGIONE L., MECCARIELLO G., COSTAGLIOLA M.A. (2005) *A novel statistical model for the evaluation of vehicle emission factors. Application to a Euro III gasoline car fleet*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0024.
- 2005 P 1616** PRATI M.V., COSTAGLIOLA M.A., RAPONE M. (2005) *Unregulated emissions of Euro I, II and III gasoline cars*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0025.
- 2005 P 1617** CORDINER S., ROCCO V., SCARCELLI R., GAMBINO M., IANNACCONE S., SETARO G. (2005) *Numerical and experimental analysis of the behaviour of a heavy-duty Diesel engine converted to dual-fuel operations*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0032.
- 2005 P 1618** CORBO P., ESPOSITO CORCIONE F., MIGLIARDINI F., VENERI O., GALLORI M. (2005) *Fuel cell propulsion system for urban bus application*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0043.
- 2005 P 1619** BEATRICE C., BELARDINI P., BERTOLI C., DEL GIACOMO N., GUIDO C., MIGLIACCIO M.NA, AVOLIO G. (2005) *Some insight on premixed combustion in Diesel engine with late injection: the influence of air and fuel parameters*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0047.
- 2005 P 1620** GOLOVITCHEV V.I., GUSTAVSSON J., CANTORE G., MONTORSI L., ESPOSITO CORCIONE F. (2005) *Large-scale CFD approach for spray combustion modeling in compression ignited engines*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0052.
- 2005 P 1621** PRIESCHING P., TATSCHL R., MAUSS F., SARIC F., NETZELL K., BAUER W., SCHMID M., LEIPERTZ A., MEROLA S. S., VAGLIECO B.M. (2005) *Soot particle size distribution - A joint work for kinetic modeling and experimental investigations*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0053.
- 2005 P 1622** FONTANESI S., GAGLIARDI V., MALAGUTI S., ALFUSO S., AURIEMMA M., MONTANARO A. (2005) *Experimental and numerical investigation on mixture formation in a HDDI Diesel engine with different combustion chamber geometries*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0055.
- 2005 P 1623** ESPOSITO CORCIONE F., COSTA M., VAGLIECO B.M., OMOTE H. (2005) *3D simulations by a detailed chemistry combustion model and comparison with experiments of a light duty common rail D.I. Diesel engine*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-007.
- 2005 P 1624** GIGLIO V., IORIO B., POLICE G., RISPOLI N. (2005) *In-cylinder pressure measurement for control and diagnostics in spark ignition engines*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0062.
- 2005 P 1625** ALFUSO S., ALLOCCA L., CAPUTO G., ESPOSITO CORCIONE F., MONTANARO A., VALENTINO G. (2005) *Experimental investigation of a spray from a multi-jet common rail injection system for small engines*. Proceedings 7th International Conference on Engines for Automobile – ICE2005, Capri (Italy) 2005 (ISBN 88-9000399-2-2), SAE Technical Paper 2005-24-0090.
- 2005 P 1627** PAN G., SHAKAL J., LAI W., CALABRIA R., MASSOLI P. (2005) *Simultaneous global size and velocity measurements of droplets and sprays*. Proceedings 20th International Conference on Liquid Atomization and Spray Systems – ILASS Europe 2005, Orléans (France) 2005, pp. 91-96.
- 2005 P 1628** COSTA M. (2005) *Optimisation by numerical simulation of multiple injection strategies for Diesel particulate filters regeneration*. Proceedings 20th International Confer-

ence on Liquid Atomization and Spray Systems – ILASS Europe 2005, Orléans (France) 2005, p. 309.

2005 P 1629 BELARDINI P., BERTOLI C., CORSARO S., D'AMBRA P. (2005) *The impact of different stiff ODE solvers in parallel simulation of Diesel combustion*. In LNCS Vol. 3726 "High Performance Computing and Communications" (L.T. Yang et al., Eds), Springer (Berlin), pp. 958-968 (ISBN 3-540-29031-1).

2005 P 1632 CORBO P., ESPOSITO CORCIONE F., MIGLIARDINI F., VENERI O. (2005) *Experimental study of a fuel cell power train for road transport application*. Journal of Power Sources, **145** (2), pp. 610-619.

2005 P 1633 IVANOVA N.A., DI STASIO S., ONISCHUK A.A., BAKLANOV A.M., KARASEV V.V. (2005) *Morphology of aerosol particles formed in co-pyrolysis of hydrocarbons and metalorganics*. Nonequilibrium Processes vol. 1 (ISBN 94588-033-7).

2005 P 1634 DI STASIO S., MITCHELL J.B.A., COURBE J. (2005) *In-situ small-angle X-ray synchrotron measurements of soot nanoparticle aggregate size and morphology in an ethylene-air diffusion flame*. Abstracts European Aerosol Conference – EAC 2005, Ghent (Belgium) 2005, p. 252 (ISBN 9080915939).

2005 P 1635 DI STASIO S., ONISCHUK A. (2005) *Diffusion bundle batteries, electron microscopy and X-ray diffraction measurements of gas-phase generated copper nanoparticles*. Abstracts European Aerosol Conference – EAC 2005, Ghent (Belgium) 2005, p. 639 (ISBN 9080915939).

2005 P 1636 CALABRIA R., CHIARIELLO F., DE BELLIS V., MASSOLI P. (2005) *Combustion fundamentals of pyrolysis oil based fuels*. Proceedings 4th Mediterranean Combustion Symposium, Lisbon (Portugal) 2005, Paper IV.8.

2005 P 1637 CALABRIA R., MASSOLI P. (2005) *GSI laser technique for 2-D characterization of non-isothermal sprays*. Proceedings 4th Mediterranean Combustion Symposium, Lisbon (Portugal) 2005, Paper VI.4.

2005 P 1642 DE NICOLA F., MAISTO G., PRATI M.V., ALFANI A. (2005) *Temporal variations in PAH concentrations in Quercus ilex L. (holm oak) leaves in an urban area*. Chemosphere, **61** (3), pp. 432-440.

2005 P 1643 COSTA M., VAGLIECO B.M., ESPOSITO CORCIONE F. (2005) *Radical species in the cool-flame regime of diesel combustion: a comparative numerical and experimental study*. Experiments in Fluids, **39** (3), pp. 514-526.

2005 P 1646 DI PALMA T.M., APICELLA B., ARMENANTE M., VELOTTA R., WANG X., SPINELLI N. (2005) *Ion kinetic energy distributions and cross sections for the electron impact ionization of ethyl tert-butyl ether*. Chemical Physics Letters, **415** (4-6), pp. 351-356.

2005 P 1647 ALLOCCA L., ESPOSITO CORCIONE F., VALENTINO G. (2005) *Spray evolution of a multijet injection system for small Diesel application*. Proceedings International Symposium on Heat and Mass Transfer in Spray Systems – SPRAY-05, Antalya (Turkey) 2005 (ISBN 1-56700-223-4).

2005 P 1648 CIAVOLINO E., MECCARIELLO G. (2005) *Un modello di regressione PLS per lo studio delle emissioni di sostanze inquinanti*. Statistica e Società, **3** (3), pp. 20-26.

2005 P 1651 MANCARUSO E., MEROLA S.S., VAGLIECO B.M. (2005) *UV-visible scattering and extinction measurements applied to*

a CR DI Diesel engine. Abstracts 5th Symposium Towards Clean Diesel Engines, Lund (Sweden) 2005.

2005 P 1652 VAGLIECO B.M., MEROLA S.S. (2005) *Nanoparticles detection at the exhaust of a common rail Diesel engine by different methodologies*. Abstracts International Congress on Combustion By-Products and Their Health Effects, Tucson (USA) 2005.

2005 P 1653 D'ANNA A., D'ALESSIO A., BARONE A.C., LANZUOLO G., MINUTOLO P., BORGHESE A. (2005) *In-situ determination of particle size distribution in flames and at the exhausts of Diesel and gasoline engines*. Abstracts International Congress on Combustion By-Products and Their Health Effects, Tucson (USA) 2005.

2005 P 1654 TURRIO BALDASSARRI L., BATTISTELLI C., CONTI L., CREBELLI R., DE BERARDIS B., IAMICELI A.L., GAMBINO M., IANNACCONE S. (2005) *Caratterizzazione chimica e tossicologica delle emissioni da carburanti alternativi per il trasporto pubblico nelle aree urbane*. Notiziario dell'Istituto Superiore di Sanità, **18** (10), pp. 3-8.

2005 P 1659 ALLOCCA L., ESPOSITO CORCIONE F., MONTANARO A., VALENTINO G. (2005) *Multi-jet Common Rail injection system for small Diesel engines*. Proceedings 27th IEA Task Leaders Meeting on Energy Conservation and Emissions Reduction in Combustion, Zürich (Switzerland) 2005, pp. 57-66.

2005 P 1660 AURIEMMA M., CAPUTO G., ESPOSITO CORCIONE F., VALENTINO G. (2005) *"2D-imaging of a Diesel spray under realistic engine conditions"*. Proceedings 27th IEA Task Leaders Meeting on Energy Conservation and Emissions Reduction in Combustion, Zürich (Switzerland) 2005, pp. 92-100.

2005 P 1664 COSTA M., OMOTE H., ESPOSITO CORCIONE F., VAGLIECO B.M. (2005) *Multidimensional modelling of detailed kinetics of combustion in a common rail Diesel engine and experimental validation*. Abstracts International Conference on CAE and Computational Technologies for Industry – TCN CAE 2005, Lecce (Italy) 2005, pp. 69-70.

2005 P 1665 COSTA M., VAGLIECO B.M., ESPOSITO CORCIONE F., OMOTE H. (2005) *Numerical simulations by detailed chemistry and experimental measurements of Diesel combustion in a light duty common rail direct injection engine*. Proceedings 2005 ASME International Mechanical Engineering Congress and Exposition, Orlando (USA) 2005 (ISBN 0-7918-3769-6).

2005 P 1674 DE FALCO I., DELLA CIOPPA A., IAZZETTA A., TARANTINO E. (2005) *An evolutionary approach for automatically extracting intelligible classification rules*. Knowledge and Information Systems, **7** (2), pp. 179-201.

2005 P 1803 BEATRICE C., BELARDINI P., BERTOLI C., AVOLIO G., FRAIOLO V. (2005) *L'impiego del calcolo parallelo per la simulazione multidimensionale della combustione Diesel*. Proceedings 60° Congresso Nazionale ATI, Roma 2005, Paper 07/03.

2006

2006 P 1503 KONSTANDOPOULOS A.G., ZARVALIS D., PAPAIOANNOU E., VLACHOS N.D., BORETTO G., PIDRIA M.F., FARALDI P., PIACENZA O., PRENNINGER P., CARTUS T., SCHREIER H., BRANDSTATTER W., WASSERMAYR C., LEPPERHOF G., SCHOLZ V., LUERS B., SCHNITZLER J., CLAUSSEN

- M., WOLLMANN A., Maly M., TSOTRIDIS G., VAGLIECO B.M., MEROLA S.S., WEBSTER D., BERGEAL D., GORSMANN C., OBERNOSTERER H., FINO D., RUSSO N., SARACCO G., SPECCHIA V., MORAL N., D'ANNA A., D'ALESSIO A., ZAHORANSKY R., LAILE E., SCHMIDT S., RANALLI M. (2006) *The Diesel exhaust aftertreatment (DEXA) Cluster: a systematic approach to Diesel particulate emission control in Europe*. SAE 2005 Transactions "Journal of Fuels and Lubricants", **114**, pp. 16-31.
- 2006 P 1504** GUIDA M., PULCINI G. (2006) *Bayesian analysis of repairable systems showing a bounded failure intensity*. Reliability Engineering and System Safety, **91** (7), pp. 828-838.
- 2006 P 1562** GIORGIO M., GUIDA M., PULCINI G. (2006) *Reliability-growth analysis of locomotive electrical equipment*. Journal of Quality Technology, **38** (1), pp. 14-30.
- 2006 P 1563** PULCINI G. (2006) *A bivariate distribution for the reliability analysis of failure data in presence of a forewarning or primer event*. Communications in Statistics – Theory and Methods, **35** (11), pp. 2107-2126.
- 2006 P 1585** BOZZA F., GIMELLI A., MEROLA S.S., VAGLIECO B.M. (2006) *Validation of a fractal combustion model through flame imaging*. SAE 2005 Transactions "Journal of Engines", **114**, pp. 973-987.
- 2006 P 1650** GUIDA M., PULCINI G. (2006) *Early reliability testing of automotive components by using past data and technical information*. Proceedings International Conference on Degradation, Damage, Fatigue and Accelerated Life Models in Reliability Testing – ALT 2006, Angers (France) 2006, pp. 54-61.
- 2006 P 1661** DI STASIO S., BRAUN A. (2006) *Comparative NEXAFS study on soot obtained from an ethylene/air flame, a Diesel engine, and graphite*. Energy & Fuels, **20** (1), pp. 187-194.
- 2006 P 1662** TURRIO-BALDASSARRI L., BATTISTELLI C.L., CONTI L., CREBELL R., DE BERARDIS B., IAMICELI A.L., GAMBINO M., IANNACCONE S. (2006) *Evaluation of emission toxicity of urban bus engines: compressed natural gas and comparison with liquid fuels*. Science of the Total Environment, **355** (1-3), pp. 64-77.
- 2006 P 1666** D'AMBRA P., BELARDINI P., BERTOLI C., CORSARO S. (2006) *A multi-method ODE software component for parallel simulation of Diesel engine combustion*. Abstracts of SIAM Conference on Parallel Processing for Scientific Computing, San Francisco (USA) 2006, p. 43.
- 2006 P 1668** DI STASIO S., MITCHELL J.B.A., LE GARREC J.L., BIENNIER L., WULFF M. (2006) *Synchrotron SAXS <in situ> identification of three different size modes for soot nanoparticles in a diffusion flame*. Carbon, **44** (7), pp. 1267-1279.
- 2006 P 1670** MITCHELL J.B.A., LE GARREC J.L., FLORESCU-MITCHELL A.I., DI STASIO S. (2006) *Small-angle neutron scattering study of soot particles in an ethylene-air diffusion flame*. Combustion and Flame, **145** (1-2), pp. 80-87.
- 2006 P 1671** SENATORE A., CARDONE M., BUONO D., ROCCO V., ALLOCCA L., VITOLO S. (2006) *Performances and emissions optimization of a CR Diesel engine fuelled with biodiesel*. Proceedings 2006 SAE World Congress, Detroit (USA) 2006, SAE Technical Paper 2006-01-0235.
- 2006 P 1672** ALLOCCA L., ANDREASSI L., UBERTINI S. (2006) *Evaluation of splash models with high-pressure Diesel spray*. In SAE Vol. SP-2010 "Diesel Fuel Injection and Sprays 2006" (ISBN 0-7680-1745-9), SAE Technical Paper 2006-01-1117.
- 2006 P 1673** ESPOSITO CORCIONE F., COSTA M., VAGLIECO B.M., OMOTE H. (2006) *Assessment of a detailed kinetic Diesel combustion model by in-cylinder optical measurements*. In SAE Vol. SP-2011 "Multi-Dimensional Engine Modeling 2006" (ISBN 0-7680-1746-7), SAE Technical Paper 2006-01-0057.
- 2006 P 1676** BERTOLI C., BEATRICE C., DI LORENZO A. (2006) *The evolution of the diesel combustion system toward the near zero emission goal*. Int. Journal of Vehicle Design, **41** (1-4), pp. 3-17.
- 2006 P 1677** ANGELOV P., GIGLIO V., GUARDIOLA C., LUGHOFFER E., LUJÁN J.M. (2006) *An approach to model-based fault detection in industrial measurement systems with application to engine test benches*. Measurement Science and Technology, **17** (7), pp. 1809-1818.
- 2006 P 1679** MANCARUSO E., MEROLA S.S., VAGLIECO B.M. (2006) *Spectroscopic analysis of combustion process in CR DI Diesel engine operating in HCCI mode*. Proceedings 29th Meeting on Combustion - Italian Section of The Combustion Institute, Pisa (Italy) 2006, pp. V6.1-6 (ISBN 88-88104-06-2).
- 2006 P 1680** DI IORIO S., MEROLA S.S., TORNATORE C., VAGLIECO B.M. (2006) *Nanoparticles detection at internal combustion engines exhaust by electrical low pressure impactor*. Proceedings 29th Meeting on Combustion - Italian Section of The Combustion Institute, Pisa (Italy) 2006, pp. V5.1-4 (ISBN 88-88104-06-2).
- 2006 P 1681** COSTAGLIOLA M.A., DEL GIACOMO N., IACCIO I., PRATI M.V., UNICH A., VIOLETTI N., LANDRI P., MARANGON T. (2006) *An experience with a DPF retrofitted at the exhaust of an Euro II urban bus engine*. Proceedings 29th Meeting on Combustion - Italian Section of The Combustion Institute, Pisa (Italy) 2006, pp. V3.1-6 (ISBN 88-88104-06-2).
- 2006 P 1682** JOUMARD R., LAURIKKO J., LE HAN T., GEIVANIDIS S., SAMARAS Z., OLAH Z., DEVAUX P., ANDRE J-M., CORNELIS E., ROUVEIROLLES P., LACOUR S., PRATI M.V., VERMEULEN R., ZALLINGER M. (2006) *Accuracy of exhaust emissions measurements on vehicle bench*. Proceedings 2nd Conference on Environment & Transport and 15th Conference on Transport and Air Pollution, Reims (France) 2006, INRETS n° 107, Vol. 1, pp. 119-126 (ISBN 2-85782-639-7).
- 2006 P 1683** AAKKO P., LAURIKKO J., WEILENMANN M., MATTREL P., JOUMARD R., ANDRE J-M., PRATI M.V., COSTAGLIOLA M.A., MERETETI T., CAZIER F., MERCIER A., NOUALI H., PATUREL L., COMBET E., DEVOS O., DECHAUX J-C., CAPLAIN I., NOLLET V. (2006) *Emission factors of unregulated atmospheric pollutants for passenger cars – Task 322 of the EU ARTEMIS Project*. Proceedings 2nd Conference on Environment & Transport and 15th Conference on Transport and Air Pollution, Reims (France) 2006, INRETS n° 107, Vol. 1, pp. 231-238 (ISBN 2-85782-639-7).
- 2006 P 1684** RAPONE M., DELLA RAGIONE L., MECCARIELLO G., PRATI M.V., COSTAGLIOLA M.A. (2006) *Validation of a hierarchical emission model: statistical analysis of Diesel and gasoline Euro 3 automobile emissions from the ARTEMIS data base*. Proceedings 2nd Conference on Environment & Transport and 15th Conference on Transport and Air Pollution, Reims (France) 2006, INRETS n° 107, Vol. 1, pp. 247-254 (ISBN 2-85782-639-7).

- 2006 P 1685** ANDRE M., RAPONE M. (2006) *Driving cycles and pollutant emissions estimation*. Proceedings 2nd Conference on Environment & Transport and 15th Conference on Transport and Air Pollution, Reims (France) 2006, INRETS n° 107, Vol. 1, pp. 327-334 (ISBN 2-85782-639-7).
- 2006 P 1686** DI STASIO S., IAZZETTA A., FORTE P. (2006) *Brownian coagulation and reshaping of nucleation mode ultrafine carbon soot in flames*. Proceedings 29th Meeting on Combustion - Italian Section of The Combustion Institute, Pisa (Italy) 2006, pp. X5.1-6.
- 2006 P 1688** POLICE G., DIANA S., GIGLIO V., IORIO B., RISPOLI N. (2006) *Downsizing of SI engines by turbo-charging*. Proceedings 8th Biennial ASME Conference on Engineering Systems Design and Analysis – ESDA2006, Torino (Italy) 2006, Paper ESDA2006-95215.
- 2006 P 1689** ALLOCCA L., ANDREASSI L., UBERTINI S. (2006) *Enhanced splash models for high pressure Diesel sprays*. Proceedings 8th Biennial ASME Conference on Engineering Systems Design and Analysis – ESDA2006, Torino (Italy) 2006, Paper ESDA2006-95716.
- 2006 P 1690** MEROLA S.S., VAGLIECO B.M. (2006) *Knock investigation by flame and radical species detection in spark ignition engine for different fuels*. Proceedings 19th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems – ECOS 2006, Aghia Pelagia (Greece) 2006, pp. 991-998.
- 2006 P 1691** BOZZA F., COSTA M., SIANO D. (2006) *3D analysis for the prediction of the noise attenuation of a spark ignition engine filter box*. Proceedings 19th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems – ECOS 2006, Aghia Pelagia (Greece) 2006, pp. 1015-1023.
- 2006 P 1692** MANCARUSO E., MEROLA S.S., VAGLIECO B.M. (2006) *Optical monitoring of radical species in HCCI mode of Common Rail Diesel engine*. Proceedings Conference on Thermo- and Fluid Dynamic Processes in Diesel Engines – THIESEL 2006, Valencia (Spain) 2006 (ISBN 84-9705-982-4).
- 2006 P 1693** COSTA M., DELL'ISOLA M., MASSAROTTI N., PETEA M. (2006) *Caratterizzazione numerico-sperimentale della camera di combustione di un termovalorizzatore*. Proceedings 61° Congresso Nazionale ATI, Perugia 2006.
- 2006 P 1694** ANDREASSI L., BELLA G., ROCCO V., UBERTINI S., ALLOCCA L. (2006) *Modelli avanzati per la simulazione dell'impatto di spray Diesel ad alta pressione con parete*. Proceedings 61° Congresso Nazionale ATI, Perugia 2006.
- 2006 P 1696** ALLOCCA L., ANDREASSI L., DE VITA A., ROCCO V., UBERTINI S. (2006) *Experimental analysis of high pressure Diesel spray impingement on a flat wall*. Proceedings 13th International Heat Transfer Conference, Sydney (Australia) 2006.
- 2006 P 1697** ALFUSO S., ALLOCCA L., CAPUTO G., ESPOSITO CORCIONE F., MONTANARO A., VALENTINO., LOLLI M. (2006) *Spray analysis of an innovative direct command solenoid injector for Common Rail light duty Diesel engines*. Proceedings 10th International Conference on Liquid Atomization and Spray Systems – ICLASS 2006, Kyoto (Japan) 2006, Paper ICLASS06-038 (ISBN 4-9902774-1-4).
- 2006 P 1698** FONTANESI S., GAGLIARDI V., MALAGUTI S., VALENTINO G., AURIEMMA M. (2006) *Detailed experimental and numerical investigation of the spray structure in a GDI high-pressure swirl injector*. Proceedings 10th International Conference on Liquid Atomization and Spray Systems – ICLASS 2006, Kyoto (Japan) 2006, Paper ICLASS06-189 (ISBN 4-9902774-1-4).
- 2006 P 1699** PAN G., SHAKAL J., LAI W., CALABRIA R., MASSOLI P. (2006) *Spray features investigated by GSV: a new planar laser technique*. Proceedings 10th International Conference on Liquid Atomization and Spray Systems – ICLASS 2006, Kyoto (Japan) 2006, Paper ICLASS06-283 (ISBN 4-9902774-1-4).
- 2006 P 1700** BOCCHETTI D., GIORGIO M., GUIDA M., PULCINI G. (2006) *A competing risk model for the reliability of cylinder liners in ship Diesel engines*. In "Safety and Reliability for Managing Risk" (C. Guedes Soares & E. Zio, Eds), Taylor & Francis (London), Vol. 3, pp. 2751-2759 (ISBN 0-415-41620-5).
- 2006 P 1701** ALLOCCA L., ANDREASSI L., BELLA G., DE VITA A., ROCCO V., UBERTINI S. (2006) *Spray-wall impingement for Common Rail injection apparatus*. Proceedings International Conference on Vehicles Alternative Fuel Systems & Environmental Protection – VAFSEP 2006, Dublin (EIRE) 2006, pp. 8-13 (ISBN 1-872327-58-3).
- 2006 P 1702** CAMMINATIELLO I., MECCARIELLO G., RAPONE M. (2006) *A statistical model of real world vehicle emissions based on C.A. of speed and acceleration tables. An application to emission data of a EURO 3 Diesel car fleet*. Proceedings Convegno su Metodi, Modelli e Tecnologie dell'Informazione a Supporto delle Decisioni – MTISD'06, Procida (Italy) 2006.
- 2006 P 1703** BEATRICE C., AVOLIO G., BERTOLI C., DEL GIACOMO N., GUIDO C., MIGLIACCIO M. (2006) *Critical aspects on the control in the low temperature combustion systems for high performance DI Diesel engines*. Proceedings Rencontres Scientifiques de l'IFP – E-COSM, Rueil-Malmaison (France) 2006, pp. 67-77.
- 2006 P 1704** CITARELLA R., SIANO D. (2006) *Transmission loss assessment for a filter box by BEM approach*. Proceedings 4th International Conference on Axiomatic Design – ICAD 2006, Firenze (Italy) 2006, Paper ICAD-2006-42.
- 2006 P 1707** RAPONE M., DELLA RAGIONE L., IACCIO I., MECCARIELLO G., PRATI M.V. (2006) *A multivariate statistical approach to evaluate the effect of after treatment device on bus particulate emissions by in-use testing*. Proceedings 2006 SAE Powertrain & Fluid Systems Conference and Exhibition, Toronto (Canada) 2006, SAE Technical Paper 2006-01-3396 (ISBN 0-7680-1803-X).
- 2006 P 1709** BELARDINI P., BERTOLI C., CORSARO S., D'AMBRA P., FRAIOLI V. (2006) *Application of a multi-method ODE software component for simulations of ultra-low emissions Diesel engines*. Proceedings FISITA 2006 World Automotive Congress, Yokohama (Japan) 2006, Paper F2006 P027.
- 2006 P 1710** JOUMARD R., LAURIKKO J., LE HAN T., GEIVANIDIS S., SAMARAS Z., OLAH Z., DEVAUX P., ANDRÉ J.-M., CORNELIS E., ROUVEIROLLES P., LACOUR S., PRATI M.V., VERMEULEN R., ZALLINGER M. (2006) *Accuracy of exhaust emissions measurements on vehicle bench*. Proceedings FISITA 2006 World Automotive Congress, Yokohama (Japan) 2006, Paper F2006 P409.

- 2006 P 1711** MAISTO G., DE NICOLA F., IOVIENO P., PRATI M.V., ALFANI A. (2006) *PAHs and trace elements in volcanic urban and natural soils*. *Geoderma*, **136** (1-2), pp. 20-27.
- 2006 P 1712** ALLOCCA L., ALFUSO S., MONTANARO A., VALENTINO G., LOLLI M. (2006) *Innovative lift direct command to inner hydraulic circuit injector comparison for Diesel engines*. Proceedings 2006 Fall Conference of ASME Internal Combustion Engine Division – ICEF2006, Sacramento (USA) 2006, Paper ICEF2006-1518 (ISBN 0-7918-3792-0).
- 2006 P 1713** SENATORE A., PRATI M.V. (2006) *Aspetti ambientali relativi all'uso dei biocarburanti*. Proceedings Corso di Aggiornamento su Tecnologie e Prospettive della Produzione di Energia da Biomasse, Piacenza (Italy) 2006, pp. 399-415.
- 2006 P 1714** DI STASIO S., IAZZETTA A. (2006) *Nanoparticle chain restructuring of flame soot: lattice model simulations vs. light scattering experiments*. In "Chemical Engineering Transactions", Vol. 10, (Eliseo Ranzi, Edt), AIDIC (Italy), pp. 483-488 (ISBN 88-901915-7-0).
- 2006 P 1715** DI IORIO S., MEROLA S.S., VAGLIECO B.M. (2006) *Effect of dilution on nanoparticles emission at the exhaust of a PFI SI engine*. In "Chemical Engineering Transactions", Vol. 10 (Eliseo Ranzi, Edt), AIDIC (Italy), pp. 489-493 (ISBN 88-901915-7-0).
- 2006 P 1716** AVOLIO G., BEATRICE C., BERTOLI C., LAZZARO M., MOCIA V. (2006) *Optical characterization of nanoparticles from an advanced common-rail Diesel engine*. In "Chemical Engineering Transactions", Vol. 10, (Eliseo Ranzi, Edt), AIDIC (Italy), pp. 495-500 (ISBN 88-901915-7-0).
- 2006 P 1717** MEROLA S.S., VAGLIECO B.M., TORNATORE C. (2006) *Characterization of nanoparticles emitted during the regeneration of catalyzed Diesel particulate filter*. In "Chemical Engineering Transactions", Vol. 10, (Eliseo Ranzi, Edt), AIDIC (Italy), pp. 507-513 (ISBN 88-901915-7-0).
- 2006 P 1719** DI STASIO S., DAL SANTO V. (2006) *DRIFTS study of surface reactivity to NO₂ by zinc nanoparticle aggregates and zinc hollow nanofibers*. *Applied Surface Science*, **253** (5), pp. 2899-2910.
- 2006 P 1721** DE IORIO A., GAMBINO M., PENTA F. (2006) *Sul comportamento di pistoni difettati per motori ad a.c. alimentati con miscela benzina etanolo*. Proceedings XVIII Convegno Nazionale del Gruppo Italiano Frattura – IGF 18, Cetraro (Italy) 2006, pp. 101-106 (ISBN 88-8101-318-5).
- 2006 P 1722** CORBO P., ESPOSITO CORCIONE F., MIGLIARDINI F., VENERI O. (2006) *Energy management in fuel cell power trains*. *Energy Conversion and Management*, **47** (18-19), pp. 3255-3271.
- 2006 P 1723** CORBO P., ESPOSITO CORCIONE F., MIGLIARDINI F., VENERI O. (2006) *Experimental assessment of energy-management strategies in fuel-cell propulsion systems*. *Journal of Power Sources*, **157** (2), pp. 799-808.
- 2006 P 1724** ANDREASSI L., ROCCO V., UBERTINI S., ALLOCCA L. (2006) *Experimental and numerical methods to investigate the spray wall interaction*. Proceedings ICE&V Workshop on Control, Simulation and Modelling of Engine and Vehicle, Napoli (Italy) 2006, pp. 4-7.
- 2006 P 1725** BELARDINI P., BERTOLI C., FRAIOLI V. (2006) *Chemical markers for multi-method ODE solvers in Diesel engines combustion modeling*. Proceedings ICE&V Workshop on Control, Simulation and Modelling of Engine and Vehicle, Napoli (Italy) 2006, pp. 8-10.
- 2006 P 1726** BIZON K., CONTINILLO G., MEROLA S.S., VAGLIECO B.M. (2006) *Application of proper orthogonal decomposition to the analysis of I.C.E. space and time resolved optical data*. Proceedings ICE&V Workshop on Control, Simulation and Modelling of Engine and Vehicle, Napoli (Italy) 2006, pp. 28-30.
- 2006 P 1727** RAPONE M., DELLA RAGIONE L., MECCARIELLO G. (2006) *Preliminary results of an experimental campaign for bus real world driving behavior analysis*. Proceedings ICE&V Workshop on Control, Simulation and Modelling of Engine and Vehicle, Napoli (Italy) 2006, pp. 33-36.
- 2006 P 1728** ALLOCCA L., ALFUSO S., SENATORE A., CARDONE M. (2006) *Biofuel spray behaviour from Diesel engine CR injection apparatus at different operative conditions*. Proceedings 7th International Congress on Optical Particle Characterization – OPC2004, Kyoto (Japan) 2004, pp. 331-338 (ISBN 4-89467-109-3).
- 2006 P 1729** CALABRIA R., CASABURI A., MASSOLI P. (2006) *Optical investigation of particles by a 2 beam laser trap*. Proceedings 7th International Congress on Optical Particle Characterization – OPC2004, Kyoto (Japan) 2004, pp. 207-222 (ISBN 4-89467-109-3).
- 2006 P 1730** CALABRIA R., MASSOLI P. (2006) *Recent development of GSI out-of-focus technique for simple and affordable 2D characterization of particle systems*. Proceedings 7th International Congress on Optical Particle Characterization – OPC2004, Kyoto (Japan) 2004, pp. 297-304 (ISBN 4-89467-109-3).
- 2006 P 1731** MITCHELL J. B. A., COURBE J., FLORESCU-MITCHELL A. I., DI STASIO S., WEISS T. (2006) *Demonstration of soot particle resizing in an ethylene flame by small angle x-ray scattering*. *Journal of Applied Physics*, **100** (12), Paper 124918.
- 2006 P 1734** AVELLA F., BEGGIATO M., CATTANI G., DE LAURENTIS R., DEL MANSO F., DI CARLO N., GRECHI D., PEDE G., PICINI P., PINO G., PRATI M. V., ZAMBONI G. (2006) *Le emissioni in atmosfera dei veicoli. Note tecniche su criticità di stima e su soluzioni alternative per carburanti, retrofit e tecnologie motoristiche*. In "Qualità dell'Ambiente Urbano. III Rapporto APAT", APAT (Roma), pp. 95-109 (ISBN 88-448-0218-X).
- 2006 P 1738** BERTOLI C. (2006) *Evoluzione dei motori a combustione interna ed esterna*. Proceedings Congresso nazionale ATI su Potenziale Scientifico e Tecnico nel Settore Energia e Ambiente, Roma (Italy) 2005, pp. 89-99 (ISBN 888665837-0).
- 2006 P** BELARDINI P., BERTOLI C., CORSARO S., D'AMBRA P. (2006) *Introducing combustion-turbulence interaction in parallel simulation of Diesel engines*. In LNCS Vol. 4208 "High Performance Computing and Communications" (M. Gerndt, D. Kranzlmüller, Eds), Springer (Berlin), pp. 1-10 (ISBN 978-3-540-39368-9).

2007

- 2007 P 1663** GIORGIO M., GUIDA M., PULCINI G. (2007) *A wear model for assessing the reliability of cylinder liners in naval*

- Diesel engines*. IEEE Transactions on Reliability, **56** (1), pp. 158-166.
- 2007 P 1689** ALLOCCA L., ANDREASSI L., UBERTINI S. (2007) *Enhanced splash models for high pressure Diesel spray* Transactions of the ASME – Journal of Engineering for Gas Turbines and Power, **129** (2), pp. 609-621.
- 2007 P 1695** MEROLA S.S., VAGLIECO B.M., DI IORIO S. (2007) *Nanoparticles at internal combustion engines exhaust: effect on urban area*. SAE 2006 Transactions "Journal of Passenger Cars: Mechanical Systems", **115**, pp. 1685-1692.
- 2007 P 1732** CORBO P., MIGLIARDINI F. (2007) *Hydrogen production by catalytic partial oxidation of methane and propane on Ni and Pt catalysts*. International Journal of Hydrogen Energy, **32** (1), pp. 55-66.
- 2007 P 1735** GUIDA M., PULCINI G. (2007) *Reliability analysis of complex mechanical systems showing bathtub shaped intensity function*. Proceedings 7th International Congress QUALITA 2007, Tanger (Maroc) 2007, pp. 572-579.
- 2007 P 1737** PRATI M. V., RAPONE M., DELLA RAGIONE L., MECCARIELLO G., IACCIO I., COSTAGLIOLA M. A. (2007) *An experience with an on-board opacity measurement campaign on buses running in Italian cities and engine test bed correlation of PM emissions*. Proceedings International Conference on Transport and Environment: A Global Challenge. Technological and Policy Solutions, Milano (Italy) 2007, p. 341-352.
- 2007 P 1740** CORDINER S., GAMBINO M., IANNACCONE S., ROCCO V., SCARCELLI R. (2007) *Numerical and experimental analysis of combustion and exhaust emissions in a dual-fuel Diesel/NG engine*. Proceedings Cairo 10th International Conference on Energy & Environment, Luxor (Egypt) 2007.
- 2007 P 1741** CALABRIA R., CHIARIELLO F., MASSOLI P. (2007) *Combustion fundamentals of pyrolysis oil based fuels*. Experimental Thermal and Fluid Science, **31** (5), pp. 413-420.
- 2007 P 1742** CALABRIA R., MASSOLI P. (2007) *Generalised scattering imaging laser technique for 2-D characterization of non-isothermal sprays*. Experimental Thermal and Fluid Science, **31** (5), pp. 445-451.
- 2007 P 1743** MANCARUSO E., MEROLA S. S., VAGLIECO B.M. (2007) *Extinction and chemiluminescence measurements in CR DI Diesel engine operating in HCCI mode*. In SAE Vol. SP-2100 "Homogeneous Charge Compression Ignition Engines, 2007" (ISBN 978-0-7680-1890-5), SAE Technical Paper 2007-01-0192.
- 2007 P 1744** D'ERRICO G., LUCCHINI T., ONORATI A., MEHL M., FARAVELLI T., RANZI E., MEROLA S. S., VAGLIECO B.M. (2007) *Development and experimental validation of a combustion model with detailed chemistry for knock predictions*. In SAE Vol. SP-2079 "Modeling of SI and Diesel Engines, 2007", pp. 233-247 (ISBN 978-0-7680-1869-1), SAE Technical Paper 2007-01-0938.
- 2007 P 1745** DI PALMA T.M., BORGHESE A. (2007) *Characterization of a UV-VUV light source based on a gas-target ns-laser-produced plasma*. Nuclear Instruments and Methods in Physics Research. Section B, **254** (2), pp. 193-199.
- 2007 P 1746** MAZZARELLA G., FERRARACCIO F., PRATI M. V., ANNUNZIATA S., BIANCO A., MEZZOGIORNO A., LIGUORI G., ANGELILLO I. F., CAZZOLA M. (2007) *Effects of diesel exhaust particles on human lung epithelial cells: an in vitro study*. Respiratory Medicine, **101** (6), pp. 1155-1162.
- 2007 P 1747** CORCIONE E. F., COSTA M., VAGLIECO B. M., OMOTE H. (2007) *Multidimensional modelling of diesel combustion by a detailed kinetic scheme and comparison with in-cylinder optical measurements*. International Journal of Vehicle Design, **45** (1/2), pp. 100-127.
- 2007 P 1748** MEROLA S.S., TORNATORE C., VAGLIECO B.M. (2007) *Effect of EGR on nanoparticles at Common-rail diesel engines exhaust*. Proceedings International Congress of Combustion Engines – PTNSS Kongres 2007, Cracow (Poland) 2007, Paper P07-C020, pp. 206-217.
- 2007 P 1749** APICELLA B., DI PALMA T.M., WANG X., VELOTTA R., ARMENANTE M., SPINELLI N. (2007) *A mass spectrometric study of gasoline anti-knocking additives. Part I: Electron impact ionization and fragmentation processes of MTBE*. International Journal of Mass Spectrometry, **262** (1-2), pp. 105-113.
- 2006 P 1750** MEROLA S.S., VAGLIECO B.M. (2007) *Optical investigation of valve firing in PFI spark-ignition engine*. Proceedings 20th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems – ECOS 2006, Padova (Italy) 2007, pp. 105-112 (ISBN 88-89884-08-8).
- 2007 P 1751** BOCCOLINI V., COPPOLA T., PACIOLLA A., LANDRI G. (2007) *The "Metò del Mare" an experience of passenger transport by sea in Cmpania region*. Proceedings 2nd International Conference on Marine Research and Transportation – ICMRT '07, Ischia (Italy) 2007, pp. 45-50 (ISBN 88-901174-3-5).
- 2007 P 1752** SIANO D. (2007) *Vibro-acoustic characterisation of a D.I. Diesel engine by the use of the scanning laser vibrometer technique*. Proceedings 14th International Conference on Sound Vibration – ICSV14, Cairns (Australia) 2007, pp. 45-50 (ISBN 978-0-7334-2516-5).
- 2007 P 1753** IVANOVA N.A., ONISCHUK A.A., DI STASIO S., BAKLANOV A.M., MAKOV G.A. (2007) *Study of morphology of aerosol aggregates formed during co-pyrolysis of C₃H₈+Fe(CO)₅*. Journal of Physics D: Applied Physics, **40** (7), pp. 2071-2082.
- 2007 P 1754** BOZZA F., GIMELLI A., PIAZZESI R., FORTUNATO F., PIANESE V., SIANO D. (2007) *The prediction of the performance and gasdynamic noise emitted by a medium-size spark-ignition engine by means of 1D and 3D analyses*. In SAE Vol. SP-2079 "Modeling of SI and Diesel Engines, 2007", pp. 1-10 (ISBN 978-0-7680-1869-1), SAE Technical Paper 2007-01-0380.
- 2007 P 1755** BEATRICE C., AVOLIO G., GUIDO C. (2007) *Experimental analysis of the operating parameter influence on the application of low temperature combustion in the modern Diesel engines*. Proceedings 2007 JSAE/SAE International Fuels and Lubricants Meeting, Kyoto (Japan) 2007, JSAE Paper 20077183 / SAE Technical Paper 2007-01-1839, pp. 794-813 (ISBN 978-4-915219-92-4).
- 2007 P 1757** GAMBINO M., IANNACCONE S., DE SIMIO L. (2007) *Low-pollution, high-efficiency, mixed fuel/natural gas engine for transport application*. In "Urban Transport XIII – Urban Transport and the Environment in the 21st Century" (C. Breb-

- bia, Edt), WIT Press (Southampton), pp. 493-502 (ISBN 978-1-84564-087-3).
- 2007 P 1759** VIGLIOTTA G., NUTRICATI E., CARATA E., TREDICI S.M., DE STEFANO M., PONTIERI P., MASSARO D.R., PRATI M.V., DE BELLIS L., ALIFANO P. (2007) *Clonothrix fusca* Roze 1896, a filamentous, sheathed, methanotrophic γ -proteobacterium. Applied and Environmental Microbiology, **73** (11), pp. 3556-3565.
- 2007 P 1762** MEROLA S.S., VAGLIECO B.M., FORMISANO G., LUCIGNANO G., MASTRANGELO G. (2007) *Flame diagnostics in the combustion chamber of boosted PFI SI engine*. Proceedings 8th International Conference on Engines for Automobile – ICE2007, Capri (Italy) 2007 (ISBN 978-88-900399-3-0), SAE Technical Paper 2007-24-0003.
- 2007 P 1763** BIZON K., CONTINILLO G., MEROLA S.S., VAGLIECO B.M. (2007) *Application of proper orthogonal decomposition to the analysis of I.C.E. space and time resolved data*. Proceedings 8th International Conference on Engines for Automobile – ICE2007, Capri (Italy) 2007 (ISBN 978-88-900399-3-0), SAE Technical Paper 2007-24-0007.
- 2007 P 1764** AVOLIO G., BEATRICE C., DEL GIACOMO N., GUIDO C., MIGLIACCIO M.N.A., FRAIOLI V. (2007) *Effects of highly cooled EGR on modern Diesel engine performance at low temperature combustion condition*. Proceedings 8th International Conference on Engines for Automobile – ICE2007, Capri (Italy) 2007 (ISBN 978-88-900399-3-0), SAE Technical Paper 2007-24-0014.
- 2007 P 1765** SIANO D., VALENTINO G., ESPOSITO CORCIONE F., BOZZA F., ARNONE L., MANELLI S. (2007) *Experimental and numerical analyses of performances and noise emission of a common rail light duty D.I. Diesel engine*. Proceedings 8th International Conference on Engines for Automobile – ICE2007, Capri (Italy) 2007 (ISBN 978-88-900399-3-0), SAE Technical Paper 2007-24-0017.
- 2007 P 1766** AURIEMMA M., CAPUTO G., ESPOSITO CORCIONE F., VALENTINO G. (2007) *Influence of a swirling air flow on an evaporating Diesel spray from a common rail injection system under realistic engine conditions*. Proceedings 8th International Conference on Engines for Automobile – ICE2007, Capri (Italy) 2007 (ISBN 978-88-900399-3-0), SAE Technical Paper 2007-24-0021.
- 2007 P 1767** ANDREASSI L., ROCCO V., UBERTINI S., ALLOCCA L. (2007) *General splash model for direct injection engine multidimensional simulation*. Proceedings 8th International Conference on Engines for Automobile – ICE2007, Capri (Italy) 2007 (ISBN 978-88-900399-3-0), SAE Technical Paper 2007-24-0022.
- 2007 P 1768** TAGLIALATELA SCAFATI F., CESARIO N., LAVORGNA M., MEROLA S.S., VAGLIECO B.M. (2007) *Soft computing model for prediction of EGR effects on particle sizing at CR Diesel engine exhaust*. Proceedings 8th International Conference on Engines for Automobile – ICE2007, Capri (Italy) 2007 (ISBN 978-88-900399-3-0), SAE Technical Paper 2007-24-0104.
- 2007 P 1769** ZAMBONI G., CARRARO C., PRATI M.V., COSTAGLIOLA M.A., BONFANTINI M. (2007) *Cold emissive behavior of motorcycles*. Proceedings 8th International Conference on Engines for Automobile – ICE2007, Capri (Italy) 2007 (ISBN 978-88-900399-3-0), SAE Technical Paper 2007-24-0111.
- 2007 P 1770** RAPONE M., DELLA RAGIONE L., MECCARIELLO G. (2007) *Characterization of real world bus driving behavior for emission evaluation*. Proceedings 8th International Conference on Engines for Automobile – ICE2007, Capri (Italy) 2007 (ISBN 978-88-900399-3-0), SAE Technical Paper 2007-24-0112.
- 2007 P 1771** CORDINER S., ROCCO V., SCARCELLI R., GAMBINO M., IANNACCONE S. (2007) *Experiments and multi-dimensional simulation of dual-fuel Diesel/natural gas engines*. Proceedings 8th International Conference on Engines for Automobile – ICE2007, Capri (Italy) 2007 (ISBN 978-88-900399-3-0), SAE Technical Paper 2007-24-0124.
- 2007 P 1773** PRATI M.V., COSTAGLIOLA M.A. (2007) *Emissions of fine particles and organic compounds from mopeds*. Abstracts 10th International Congress on Combustion By-Products and their Health Effects, Ischia (Italy) 2007, p. 155.
- 2007 P 1774** LANZUOLO G., SGRO L.A., BARONE A.C., D'ALESSIO A., BORGHESE A., DE FILIPPO A. (2007) *Evaluation of the lifetime of nanoparticles of organic carbon (NOC) from measured and predicted size distributions near roadways*. Abstracts 10th International Congress on Combustion By-Products and their Health Effects, Ischia (Italy) 2007, p. 157.
- 2007 P 1775** GIORDANO S., ADAMO P., MEROLA S.S., SPAGNUOLO V., VAGLIECO B.M. (2007) *Heavy metal accumulation from Diesel engine combustion by moss and lichen exposed in bags in controlled conditions*. Abstracts 10th International Congress on Combustion By-Products and their Health Effects, Ischia (Italy) 2007, p. 165.
- 2007 P 1776** DI IORIO S., MEROLA S.S., VAGLIECO B.M., D'ANNA A., BICHI E., MINUTOLO P. (2007) *Emissions of ultrafine particles from a port fuel injection spark ignition engine*. Abstracts 10th International Congress on Combustion By-Products and their Health Effects, Ischia (Italy) 2007, p. 199.
- 2007 P 1777** DE SIMIO L., GAMBINO M., IANNACCONE S. (2007) *Influence of swirl on performance and emissions of natural gas heavy duty engines*. Proceedings 11th European Automotive Congress – EAEC 2007, Budapest (Hungary) 2007, Paper AE-P05.
- 2007 P 1778** CORBO P., MIGLIARDINI F., VENERI O. (2007) *Hybrid propulsion systems powered by PEM fuel cells*. Proceedings 11th European Automotive Congress – EAEC 2007, Budapest (Hungary) 2007, Paper PT-P08.
- 2007 P 1779** SIANO D., AMOROSO F. (2007) *FEM/BEM numerical modeling of a Diesel engine acoustic emission*. Proceedings 19th International Congress on Acoustic – ICA 2007, Madrid (Spain) 2007, Paper NOI-02-009 (ISBN 84-87985-12-2).
- 2007 P 1780** GAMBINO M., IANNACCONE S., DE SIMIO L. (2007) *Motori mixed fuel a gas naturale di nuova generazione per veicoli Diesel*. Proceedings 10^a Conferenza Nazionale sul Metano per i Trasporti – 10^o METANAUTO, Bologna (Italy) 2007.
- 2007 P 1781** BEATRICE C., AVOLIO G., DEL GIACOMO N., GUIDO C. (2007) *Influence of the air-path operating parameters on the low temperature combustion in a single-cylinder Diesel engine*. Proceedings of the ASME Internal Combustion Engine Division 2007 Fall Technical Conference – ICEF2007, Charleston, South Carolina (USA) 2007, ICEF2007-1688.
- 2007 P 1782** TURRIO BALDASSARRI L., BATTISTELLI C. L., CONTI L., CREBELL R., DE BERARDIS B., IAMICELI A. L., GAMBINO M., IANNACCONE

- S. (2007) *Carburanti alternativi per il trasporto pubblico urbano*. Ambiente, pp. 16-27.
- 2007 P 1783** AVOLIO G., BEATRICE C., BERTOLI C., DEL GIACOMO N., GUIDO C. (2007) *Influence of the air-path operating parameters on the low temperature combustion in a single-cylinder Diesel engine*. Abstracts 6th Symposium Towards Clean Diesel Engines, Ischia (Italy) 2007, pp. 20-22.
- 2007 P 1784** MANCARUSO E., MEROLA S. S., VAGLIECO B. M. (2007) *Analysis of mixture formation in CR Diesel engine operating in HCCI mode*. Abstracts 6th Symposium Towards Clean Diesel Engines, Ischia (Italy) 2007, pp. 60-62.
- 2007 P 1785** BIZON K., CONTINILLO G., MANCARUSO E., VAGLIECO B. M. (2007) *Application of proper orthogonal decomposition to the analysis of Diesel engine space and cycle resolved optical data*. Abstracts 6th Symposium Towards Clean Diesel Engines, Ischia (Italy) 2007, pp. 66-68.
- 2007 P 1786** MEROLA S. S., VAGLIECO B. M., DI IORIO S., TORNATORE C. (2007) *Effect of forced EGR on chemical and physical nature of particles at Diesel engine exhaust*. Abstracts 6th Symposium Towards Clean Diesel Engines, Ischia (Italy) 2007, pp. 78-81.
- 2007 P 1787** DE RISI A., DI IORIO S., LAFORGIA D., SCIOLTI A., TORNATORE C. (2007) *EGR's effects on nanoparticles emission at the exhaust of a common rail Diesel by optical techniques and conventional methods*. Abstracts 6th Symposium Towards Clean Diesel Engines, Ischia (Italy) 2007, pp. 102-105.
- 2007 P 1788** ALFUSO S., MONTANARO A., ALLOCCA L. (2007) *Diesel sprays dispersion analysis from a common rail multi-jet injection system*. Abstracts 6th Symposium Towards Clean Diesel Engines, Ischia (Italy) 2007, pp. 114-115.
- 2007 P 1789** MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M. (2007) *Effect of fuel film deposition on combustion process in PFI SI engine*. Journal of KONES Powertrain and Transport, **14** (3), pp. 395-402.
- 2007 P 1790** MEROLA S.S., VAGLIECO B.M. (2007) *Knock investigation by flame and radical species detection in spark ignition engine for different fuels*. Energy Conversion and Management, **48** (11), pp. 2897-2910.
- 2007 P 1791** BEATRICE C., AVOLIO G., BERTOLI C., DEL GIACOMO N., GUIDO C., MIGLIACCIO M. (2007) *Critical aspects on the control in the low temperature combustion systems for high performance DI Diesel engines*. Oil & Gas Science and Technology, **62** (4), pp. 1-12.
- 2007 P 1792** BORGHESE A., DI PALMA T.M. (2007) *Laser-plasma-based vacuum-ultraviolet light source for tunable single-photon ionization*. Applied Optics, **46** (22), pp. 4948-4953.
- 2007 P 1793** ARPAIA P., MECCARIELLO G., RAPONE M., ZANESCO A. (2007) *Quantum-inspired evolutionary classification of driving sequences in vehicle emission factor measurement*. Proceedings International Measurement Confederation, Iasi (Romania) 2007, Paper F155.
- 2007 P 1794** CORBO P., MIGLIARDINI F., VENERI O. (2007) *PEFC stacks as power sources in scooter and minibus applications*. Proceedings World Hydrogen Technologies Convention, Montecatini Terme (Italy) 2007.
- 2007 P 1795** CORBO P., MIGLIARDINI F., VENERI O. (2007) *Dynamic behaviour of hydrogen fuel cells in automotive applications*. Proceedings 2007 World Renewable Energy Conference, Taiwan 2007, pp. 149-150 (ISBN 978-986-01-1108-8).
- 2007 P 1796** CORBO P., MIGLIARDINI F., VENERI O. (2007) *Experimental analysis and management issues of a hydrogen fuel cell system for stationary and mobile application*. Energy Conversion and Management, **48** (8), pp. 2365-2374.
- 2007 P 1797** COSTA M., MASSAROTTI N., PETEA M., STABILE L., VIOLA A. (2007) *Numerical analysis of the thermo-fluid-dynamic field in the combustion chamber of an incinerator plant*. Proceedings 20th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems – ECOS 2007, Padova (Italy) 2007, pp. 1553-1561.
- 2007 P 1798** CORBO P., MIGLIARDINI F., VENERI O. (2007) *Performance investigation of 2.4 kW PEM fuel cell stack in vehicles*. International Journal of Hydrogen Energy, **32** (17), pp. 4340-4349.
- 2007 P 1799** MEROLA S. S., VAGLIECO B. M. (2007) *Knocking diagnostics in the combustion chamber of boosted PFI SI optical engine*. Proceedings International Conference on The Spark Ignition Engine of the Future, Strasbourg (France) 2007.
- 2007 P 1801** BERTOLI C. (2007) *Una nuova sfida per la ricerca energetica*. ANCI Rivista – Suppl. Speciale Energia, Settembre/Ottobre 2007, pp. 36-37.
- 2007 P 1802** BIZON K., CONTINILLO G., MEROLA S.S., VAGLIECO B.M. (2007) *Application of proper orthogonal decomposition to the reconstruction of space and time resolved images of flames in internal combustion engines*. Proceedings 30th Meeting on Combustion of the Italian Section of The Combustion Institute, Ischia (Italy) 2007, Paper IV-6.
- 2007 P 1804** PULCINI G. (2007) *Life testing from a Bayesian perspective*. In "Encyclopedia of Statistics in Quality and Reliability" (F. Ruggeri, R. Kennet, F.W. Faltin, Eds), John Wiley & Sons (Chichester), pp. 963-972 (ISBN 978-0-470-01861-3).
- 2007 P 1805** FRUSTERI F., SPADARO L., BEATRICE C., GUIDO C. (2007) *Oxygenated additives production for diesel engine emission improvement*. Chemical Engineering Journal, **134** (1-3), pp. 239-245.
- 2007 P 1806** GIGLIO V., POLICE G. (2007) *Optimization of a high performance motorcycle engine*. In "Centre of Competence for Transport Systems of the Campania Region: An Experience of Innovation and Training" (V. Torrieri, Ed), Aracne (Roma), pp. 69-78 (ISBN 978-88-548-1269-7).
- 2007 P 1807** PRATI M.V., RAPONE M. (2007) *Emissions and fuel consumption of 2 and 4 wheelers vehicles during real driving cycles*. In "Centre of Competence for Transport Systems of the Campania Region: An Experience of Innovation and Training" (V. Torrieri, Ed), Aracne (Roma), pp. 79-89 (ISBN 978-88-548-1269-7).
- 2007 P 1808** CORBO P., MIGLIARDINI F., VENERI O. (2007) *Innovative propulsion systems with hydrogen fuel cells*. In "Centre of Competence for Transport Systems of the Campania Region: An Experience of Innovation and Training" (V. Torrieri, Ed), Aracne (Roma), pp. 102-122 (ISBN 978-88-548-1269-7).

2007 P 1813 LANDRI G., MIGLIACCIO M.NA, MIGLIACCIO M.NO, VIOLANO F.P. (2007) *Inquinamento: porti e coste*. La Termotecnica, **LXI** (9), pp. 64-69.

2007 P 1818 ANDREASSI L., UBERTINI S., ALLOCCA L. (2007) *Experimental and numerical analysis of high pressure Diesel spray-wall interaction*. International Journal of Multiphase Flow, **33** (7), pp. 742-765.

2007 P 1819 BIZON K., CONTINILLO G., MEROLA S.S., VAGLIECO B.M. (2007) *POD analysis of flame dynamics from optical imaging of an IC engine*. Proceedings 21st International Colloquium on the Dynamics of Explosions and Reactive Systems – ICDERS, Poitiers (France) 2007.

2007 P 1830 ARPAIA P., LUCARIELLO G., ZANESCO A. (2007) *Automatic fault isolation by cultural algorithms with differential influence*. IEEE Transactions on Instrumentation and Measurement, **56** (5), pp. 1573-1582.

2007 P 2372 BEATRICE C., VAGLIECO B.M.. (2007) *HCCI process in light duty diesel engines*. Proceedings International CTI Forum Combustion Processes. Stuttgart (Germany) 2007.

2008

2008 P 1675 PULCINI G. (2008) *Repairable system analysis for bounded intensity functions and various operating conditions*. Journal of Quality Technology, **40** (1), pp. 78-96.

2008 P 1760 ANTONELLI L., D'AMBRA P., GREGORETTI F., OLIVA G., BELARDINI P. (2008) *A parallel combustion solver within an operator splitting context for engine simulations on grids*. Proceedings 6th International Conference on Large-Scale Scientific Computations – LSSC'07, Sozopol (Bulgaria) 2007, In Lecture Notes in Computer Science, Vol. 4818, Springer (Berlin),

2008 P 1761 PULCINI G. (2008) *Reliability growth testing*. In "Encyclopedia of Quantitative Risk Analysis and Assessment" (E. Melnick, B. Everitt, Eds), John Wiley & Sons (Chichester), Vol. 4, pp. 1443-1448 (ISBN 978-0-470-03549-8).

2008 P 1772 AVOLIO G., DEL GIACOMO N., LAZZARO M., MOCCIA V. (2008) *Measurement of Diesel particulate matter concentration by means of cavity ringdown spectroscopy*. SAE 2007 Transactions "Journal of Engines", **116**, pp 1648-1655.

2008 P 1815 BERTOLI C. (2008) *Consiglio Nazionale delle Ricerche, un ruolo guida*. Protecta, **22** (1), pp. 97-99.

2008 P 1816 ALLOCCA L., BONAVOLONTÀ C., LOPIZZO T., MORONE A., VALENTINO M., VERRASTRO M.F., VIGGIANO V. (2008) *Pulser laser deposition of permanent magnetic thin film*. In SPIE Vol. 6879 "Photon Processing in Microelectronics and Photonics VII" (A.S. Holmes et al., Eds), SPIE (Bellingham) (ISBN 9780819470546).

2008 P 1817 ALLOCCA L., GAMBARDILLA U., MORONE A., VALENTINO M. (2008) *Laser deposition of SmCo thin film on steel substrate*. In SPIE Vol. 6985 "Fundamentals of Laser Assisted Micro- and Nanotechnologies" (V.P. Veiko, Ed), SPIE (Bellingham) (ISBN 9780819471833).

2008 P 1820 DE SIMIO L., GAMBINO M., IANNACCONE S. (2008) *Motori alimentati a GNL per veicoli da trasporto*. ICP – Rivista dell'Industria Chimica, 2008 (9), pp. 108-111.

2008 P 1823 ZAMBONI G., CARRARO C., CAPOBIANCO M., PRATI M.V., COSTAGLIOLA M.A., BONFANTINI M. (2008) *Valutazione sperimentale delle emissioni di scooter Euro 3*. Proceedings Giornata Nazionale di Studio MIS-MAC-X su Metodi di Sperimentazione nelle Macchine e nei Sistemi Energetici, Napoli (Italy) 2008.

2008 P 1824 TURRIO-BALDASSARRI L., CONTI L., CREBELL R., DE BERARDIS B., GAMBINO M., IAMICELI A.L., IANNACCONE S., BATTISTELLI C.L. (2008) *Caratterizzazione chimica e tossicologica delle emissioni da carburanti alternativi per il trasporto pubblico nelle aree urbane*. Rapporti ISTISAN 08/7, Istituto Superiore di Sanità, Roma, pp. 1-70 (ISSN 1123-3117).

2008 P 1826 DE NICOLA F., MAISTO G., PRATI M. V., ALFANI A. (2008) *Leaf accumulation of trace elements and polycyclic aromatic hydrocarbons (PAHs) in Quercus ilex L.* Environmental Pollution, **153** (2), pp. 376-383.

2008 P 1827 ZARVALIS D., TSAKIS A., KONSTANDOPOULOS A. G., PRATI M.V., COSTAGLIOLA M.A. (2008) *A mobile laboratory for on-board and ambient level emissions measurement*. In SAE Vol. SP-2150 "Emissions Measurements & Testing, 2008" (ISBN 978-0-7680-1992-6), SAE Technical Paper 2008-01-0756.

2008 P 1828 BEATRICE C., AVOLIO G., DEL GIACOMO N., GUIDO C., LAZZARO M. (2008) *The effect of "clean and cold" EGR on the improvement of low temperature combustion performance in a single cylinder research Diesel engine*. In SAE Vol. SP-2168 "In-Cylinder Diesel Particulate & NOx Control, 2008" (ISBN 978-0-7680-2010-6), SAE Technical Paper 2008-01-0650.

2008 P 1829 MANCARUSO E., MEROLA S.S., VAGLIECO B.M. (2008) *Extinction and chemiluminescence measurements of HCCI mode in Diesel engine operating with late injection*. In SAE Vol. SP-2182 "Homogeneous Charge Compression Ignition Engines, 2008" (ISBN 978-0-7680-2024-3), SAE Technical Paper 2008-01-0027.

2008 P 1831 CORBO P., MIGLIARDINI F., VENERI O. (2008) *An experimental study of a PEM fuel cell power train for urban bus application*. Journal of Power Sources, **181** (2), pp. 363-370.

2008 P 1832 DI STASIO S., DAL SANTO V. (2008) *A study about surface chemical-physics mechanisms occurring for interacting metal nanostructures with gas NO₂*. In "Nanotechnology 2008 – Vol. 1: Materials, Fabrication, Particles, and Characterization" (ISBN 978-1-4200-8503-7), pp. 1019-1022.

2008 P 1833 MANCARUSO E., VAGLIECO B.M. (2008) *Analysis of OH radical emission in compressed engines operating with new combustion strategies*. Proceedings 31st Combustion Meeting of the Italian Section of The Combustion Institute, Torino (Italy) 2008, Paper IV-3.

2008 P 1834 BIZON K., CONTINILLO G., LEISTNER K.C., MANCARUSO E., VAGLIECO B.M. (2008) *POD-based analysis of cycle-to-cycle variations in an optically accessible Diesel engine*. Proceedings 31st Combustion Meeting of the Italian Section of The Combustion Institute, Torino (Italy) 2008, Paper IV-7.

2008 P 1835 PRATI M.V., COSTAGLIOLA M.A. (2008) *Particle emission factors of different vehicle classes*. Proceedings 31st Combustion Meeting of the Italian Section of The Combustion Institute, Torino (Italy) 2008, Paper IV-8.

2008 P 1836 FRAIOLI V., GUIDO C. (2008) *Heptane autoignition kinetics: comparison with experimental data in Diesel engines*.

- Proceedings 31st Combustion Meeting of the Italian Section of The Combustion Institute, Torino (Italy) 2008, Paper IV-4.
- 2008 P 1837** BETARICE C., CAPALDI P., DEL GIACOMO N., GUIDO C., LAZZARO M. (2008) *The effect of "clean and cold" EGR on the improvement of low temperature combustion performance in a single cylinder research Diesel engine*. Proceedings 31st Combustion Meeting of the Italian Section of The Combustion Institute, Torino (Italy) 2008, Paper IV-5.
- 2008 P 1839** RAPONE M., DELLA RAGIONE L., MECCARIELLO G. (2008) *An integrated knowledge base for modelling and predicting vehicle real-world emissions as a function of driving behaviour kinematics*. Proceedings 30th International Conference on Information Technology Interfaces – ITI 2008, Cavtat (Croatia) 2008, pp. 218-287 (ISBN 978-953-7138-13-4).
- 2008 P 1840** MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M. (2008) *Effect of the fuel injection strategy on the combustion process in a PFI boosted spark-ignition engine*. Proceedings 21st International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems – ECOS 2008, Cracow-Gliwice (Poland) 2008, pp. 467-474 (ISBN 978-83-922381-4-0).
- 2008 P 1841** BIZON K., CONTINILLO G., MANCARUSO E., MEROLA S.S., VAGLIECO B.M. (2008) *POD-based analysis of combustion images in optically accessible engines*. Proceedings 21st International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems – ECOS 2008, Cracow-Gliwice (Poland) 2008, pp. 533-540 (ISBN 978-83-922381-4-0).
- 2008 P 1842** DI STASIO S. (2008) *Sintesi di metalli e ossidi metallici nanostrutturati per applicazioni di energetica e sensoristica di gas inquinanti*. Proceedings 9° Convegno Nazionale AIMAT, Piano di Sorrento (Napoli) 2008, pp. 293-296 (ISBN 978-88-900948-6-6).
- 2008 P 1843** DI STASIO S. (2008) *Optics of fractal structures*. Proceedings GAeF-Meeting 2008 on Light Scattering: Mie and More, Karlsruhe (Germany) 2008.
- 2008 P 1845** BEATRICE C., AVOLIO G., DEL GIACOMO N., GUIDO C. (2008) *Compression ratio influence on the performance of an advanced single-cylinder Diesel engine operating in conventional and low temperature combustion mode*. Proceedings 2008 SAE International Powertrains, Fuels & Lubricants Congress, Shanghai (China) 2008, SAE Technical Paper 2008-01-1678.
- 2008 P 1846** DI BERNARDO M., DI GAETA A., MONTANARO U., SANTINI S. (2008) *A comparative study of the new LQ-MCS control on an automotive electro-mechanical system*. Proceedings IEEE International Symposium on Circuits and Systems – ISCAS 2008, Seattle (USA) 2008, pp. 552-555 (ISBN 978-1-4244-1683-7).
- 2008 P 1847** ALFUSO S., ALLOCCA L., AURIEMMA M., MONTANARO A., VALENTINO G. (2008) *Performances analysis of a common rail injection system for heavy duty Diesel engines*. Proceedings 7th International Conference on Modeling and Diagnostics for Advanced Engine Systems – COMODIA 2008, Sapporo (Japan) 2008, pp. 421-428.
- 2008 P 1849** RAPONE M., PRATI M.V., COSTAGLIOLA M.A., DELLA RAGIONE L., MECCARIELLO G. (2008) *Emission factors determination of Euro III 1,200- to 1,400-cc petrol passenger cars with a PLS multivariate regression model*. Environmental Modeling & Assessment, **13** (3), pp. 383-392.
- 2008 P 1850** DE SIMIO L., GAMBINO M., IANNACCONE S. (2008) *Gaseous biofuels from waste: low environmental and toxicological impact with maximum benefit on the greenhouse effect*. In "Urban Transport XIV. Urban Transport and the Environment in the 21st Century" (C.A. Brebbia, Ed), WIT Press (Southampton), pp. 313-323 (ISBN 978-1-84564-123-8).
- 2008 P 1854** CORDINER S., GAMBINO M., IANNACCONE S., ROCCO V., SCARCELLI R. (2008) *Numerical and experimental analysis of combustion and exhaust emissions in a dual-fuel Diesel/natural gas engine*. Energy & Fuels, **22** (3), pp. 1418-1424.
- 2008 P 1855** MANCARUSO E., DI IORIO S., VAGLIECO B.M. (2008) *Particle size distribution in DI Diesel engine operating with conventional and advances strategies*. Proceedings Conference on Thermo- and Fluid Dynamic Processes in Diesel Engines – THIESEL 2008, Valencia (Spain) 2008 (ISBN 978-84-8363-313-7).
- 2008 P 1856** BEATRICE C., GUIDO C., DEL GIACOMO N., BERTOLI C. (2008) *Study of the compression ratio influence on the performance of an advanced automotive diesel engine operating in conventional and PCCI combustion mode*. Proceedings Conference on Thermo- and Fluid Dynamic Processes in Diesel Engines – THIESEL 2008, Valencia (Spain) 2008 (ISBN 978-84-8363-313-7).
- 2008 P 1857** MEROLA S.S., TORNATORE C., VAGLIECO B.M. (2008) *Nanoparticles characterization at the spark ignition engine exhaust*. Journal of KONES Powertrain and Transport, **15** (3), pp. 347-355.
- 2008 P 1858** MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M. (2008) *Effect of the fuel injection splitting on the combustion process in a PFI boosted spark-ignition engine*. Journal of KONES Powertrain and Transport, **15** (4), pp. 331-339.
- 2008 P 1859** MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M. (2008) *Effect of the fuel injection pressure on the combustion process in a PFI boosted spark-ignition engine*. Journal of KONES Powertrain and Transport, **15** (4), pp. 341-349.
- 2008 P 1860** CAMMINATIELLO I., D'AMBRA L., MECCARIELLO G., RAPONE M. (2008) *A new approach for modal study of instantaneous real world emissions by three-way contingency table analysis with ordered categories*. Proceedings Conference on Methods, Models and Information Technologies for Decision Support Systems – MTISD 2008, Lecce (Italy) 2008 (ISBN 978-88-8305-060-2).
- 2008 P 1861** ALFUSO S., ALLOCCA L., GRECO M., MONTANARO A., VALENTINO G. (2008) *Time- and space characterization of multi-hole GDI sprays for IC engines by images processing and PDA techniques*. Proceedings 22nd European Conference on Liquid Atomization and Spray Systems – ILASS 2008, Como Lake (Italy) 2008, Paper ID ILASS08-10-2 (ISBN 978-88-903712-0-2).
- 2008 P 1871** MANCARUSO E., MEROLA S.S., VAGLIECO B.M. (2008) *Study of the multi-injection combustion process in a transparent direct injection common rail diesel engine by means of optical techniques*. International Journal of Engine Research, **9** (6), pp. 483-498.

- 2008 P 1872** DI STASIO S., IAZZETTA A., ONISHUNK A., BAKLANOV A., KARASEV V., AMENITSCH H. (2008) *Effect of crystal shrinking for aerosol zinc nanoparticles subjected to oxidation: <in-situ> SAXS vs. <ex-situ> XRD, TEM, ADB*. Abstracts European Aerosol Conference – EAC 2008, Thessaloniki (Greece) 2008, Abstract T01A049P.
- 2008 P 1873** BUONANNO G., COSTA M., MASSAROTTI N., STABILE L. (2008) *Analisi numerica della temperatura e del tempo di residenza dei fumi nella camera di combustione di un termovalorizzatore*. Proceedings 63° Congresso Nazionale ATI su Energia per lo Sviluppo Sostenibile, Palermo, 2008, Paper 08.004 (ISBN 978-88-7758-839-5).
- 2008 P 1874** CORBO P., MIGLIARDINI F., VENERI O. (2008) *Experimental analysis of a 20 kW_e PEM fuel cell system in dynamic conditions representative of automotive applications*. Energy Conversion and Management, **49** (10), pp. 2688-2697.
- 2008 P 1875** SIANO D., BOZZA F., COSTA M. (2008) *The use of modeFRONTIER™ for the optimal design of a two-stroke Diesel engine for aeronautical applications*. Proceedings International Conference on Simulation Based Engineering and Sciences – TCN CAE 2008, Mestre (VE), 2008.
- 2008 P 1878** ALLOCCA L., ALFUSO S., AURIEMMA M., VALENTINO G. (2008) *Droplets size and velocity measurements in a spray from a common rail system for DI Diesel engines*. Proceedings International Conference on Automotive Technologies – ICAT 2008, Istanbul (Turkey) 2008.
- 2008 P 1879** ALLOCCA L., BONAVOLONTÀ C., GIARDINI A., LOPIZZO T., MORONE A., VALENTINO M., VERRASTRO M. F., VIGGIANO V. (2008) *Laser deposition of SmCo thin film and coating on different substrates*. Physica Scripta, **78** (5), Paper 058114.
- 2008 P 1880** SIANO D., COSTA M., BOZZA F. (2008) *Optimal design of a two-stroke Diesel engine for aeronautical applications concerning both thermofluidynamic and acoustic issues*. Proceedings 2008 ASME International Mechanical Engineering Congress and Exposition, Boston, Massachusetts (USA), 2008, IMECE 2008-68713.
- 2008 P 1881** COSTA M., DELL'ISOLA M., MASSAROTTI N., MAURO A. (2008) *Analysis of temperature and residence time of the exhausts in the combustion chamber of an incineration plant*. Proceedings 2008 ASME International Mechanical Engineering Congress and Exposition, Boston, Massachusetts (USA), 2008, IMECE 2008-67714.
- 2008 P 1883** DI GAETA A., GLIELMO L., GIGLIO V., POLICE G. (2008) *Modeling of an electromechanical engine valve actuator based on a hybrid analytical-FEM approach*. IEEE/ASME Transactions on Mechatronics, **13** (6), pp. 625-637.
- 2008 P 1884** DI IORIO S., MEROLA S.S., VAGLIECO B.M., D'ANNA A., MUNITOLO P. (2008) *Particulate emission from internal combustion engines*. In "Chemical Engineering Transactions", Vol. 16, (Eliseo Ranzi, Edt), AIDIC (Italy), pp. 251-258 (ISBN 978-88-95608-03-7).
- 2008 P 1888** RAPONE M., DELLA RAGIONE L., MECCARIELLO G. (2008) *An integrated knowledge base for modelling and predicting vehicle real-world emissions as a function of driving behaviour kinematics*. Journal of Computing and Information Technology, **16** (4), pp. 279-286.
- 2008 P 1890** LANZUOLO G., SGRO L.A., FILIPPO A.D., BARONE A.C., BORGHESE A., D'ALESSIO A. (2008) *Coagulation of organic carbon nanoparticles in exhaust conditions*. Environmental Engineering Science, **25** (10), pp. 1365-1377.
- 2008 P 1892** TORNATORE C., MEROLA S.S., VAGLIECO B.M. (2008) *Particle and nanoparticle characterization at the exhaust of internal combustion engines*. Proceedings of the Institution of Mechanical Engineers. Part D: Journal of Automobile Engineering, **222** (11), pp. 2195-2217.
- 2008 P 1895** VAGLIECO B.M. (2008) *Aspects of biodiesel combustion and emissions on automotive engines*. Chapter 13 of the book "Alternative Propulsion Systems for Automobiles II" (C. Stan & G. Cipolla, Eds), Expert Verlag (Renningen), pp. 195-199 (ISBN 978-3-8169-2835-5).
- 2008 P 1896** BERTOLI C. (2008) *Il Dipartimento Energia e Trasporti del CNR*. Protecta, **22** (11/12), pp. 78-80.
- 2008 P 18xx** SGRO L.A., BORGHESE A., SPERANZA L., BARONE A.C., MINUTOLO P., BRUNO A., D'ANNA A., D'ALESSIO A. (2008) *Measurements of nanoparticles of organic carbon and soot in flames and vehicle exhausts*. Environmental Science & Technology, **42** (3), pp. 859-863.
- 2008 P 1925** BOCCOLINI V., COPPOLA T., PACIOLLA A., LANDRI G. (2008) *Il Metrò del mare: una sperimentazione di trasporto pubblico via mare in Campania*. Proceedings Convegno ATE-NA 60°, Genova 2008.
- 2008 P** SIANO D., COSTA M., BOZZA F. (2008) *Ottimizzazione multiobiettivo di un motore aeronautico Diesel 2-tempi mediante modeFRONTIER™*. Proceedings Enginsoft Confer2008ence 2008, Mestre (VE), 2008.
- 2008 P 2373** BEATRICE C., GUIDO C. (2008) *Benefits and drawbacks of compression ratio reduction in PCCI combustion application in an advanced LD diesel engine*. 14th Diesel engine-Efficiency and Emissions Research (DEER), Dearborn-MI (USA) 2008.

2009

- 2009 P 1736** GUIDA M., PULCINI G., VIANELLO M. (2009) *Early inference on reliability of upgraded automotive components by using past data and technical information*. Journal of Statistical Planning and Inference, **139** (5), pp. 1604-1618.
- 2009 P 1800** GUIDA M., PULCINI G. (2009) *Reliability analysis of mechanical systems with bounded and bathtub shaped intensity function*. IEEE Transactions on Reliability, **58** (3), pp. 432-443.
- 2009 P 1825** MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M. (2009) *Effect of injection phasing on valves ignition engine*. SAE International Journal of Fuels and Lubricants, **1** (1), pp. 192-200.
- 2009 P 1862** BARONE S., GIORGIO M., GUIDA M., PULCINI G. (2009) *Stochastic modelling and prediction of catalytic converters degradation*. In "Safety, Reliability and Risk Analysis: Theory, Methods and Applications" (S. Martorell, C. Guedes Soares & J. Barnett, Eds), CRC Press (London), Vol. 3, pp. 2251-2258 (ISBN 978-0-415-48513-5).

- 2009 P 1863** GUIDA M., PULCINI G. (2009) *Bayesian reliability inference on innovated automotive components*. Chapter 11 of the book "Statistics for Innovation. Statistical Design of "Continuous" Product Innovation" (P. Erto, Ed), Springer Verlag (London), pp. 193-211 (ISBN 978-88-470-0814-4).
- 2009 P 1864** GIORGIO M., GUIDA M., PULCINI G. (2009) *Stochastic processes for modeling the wear of marine engine cylinder liners*. Chapter 12 of the book "Statistics for Innovation. Statistical Design of "Continuous" Product Innovation" (P. Erto, Ed), Springer Verlag (London), pp. 213-230 (ISBN 978-88-470-0814-4).
- 2009 P 1886** PRATI M.V., COSTAGLIOLA M.A. (2009) *Emissions of fine particles and organic compounds from mopeds*. Environmental Engineering Science, **26** (1), pp. 1-11.
- 2009 P 1889** BIZON K., CONTINILLO G., LEISTNER K.C., MANCARUSO E., VAGLIECO B.M. (2009) *POD-based analysis of cycle-to-cycle variations in an optically accessible diesel engine*. Proceedings of the Combustion Institute, **32** (2), pp. 2809-2816.
- 2009 P 1893** ANDRÉ M., RAPONE M. (2009) *Analysis and modelling of the pollutant emissions from European cars regarding the driving characteristics and test cycles*. Atmospheric Environment, **43** (5), pp. 986-995.
- 2009 P 1902** BOCCHETTI D., GIORGIO M., GUIDA M., PULCINI G. (2009) *A competing risk model for the reliability of cylinder liners in marine Diesel engines*. Reliability Engineering and System Safety, **94** (8), pp. 1299-1307.
- 2009 P 1903** MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M. (2009) *Knocking diagnostics in the combustion chamber of boosted port fuel injection spark ignition optical engine*. Int. Journal of Vehicle Design, **49** (1/2/3), pp. 70-90.
- 2009 P 1904** VALENTINO G., IANNUZZI S., ESPOSITO CORCIONE F., MINAGAWA T., KAMIMOTO T. (2009) *A study on the effects of engine parameters on in-cylinder soot processes in a simulated direct injection Diesel engine via the two-color method*. Proceedings 9th Congress on Engine Combustion Processes, München (Germany), 2009, pp. 33-44.
- 2009 P 1905** MEROLA S.S., SEMENTA P., TORNATORE C. (2009) *Effects of the double injection strategies (DIS) on the combustion process in a PFI boosted SI engine*. Proceedings 9th Stuttgart International Symposium on Automotive and Engine Technology, Stuttgart (Germany), 2009, pp. 65-79.
- 2009 P 1906** BOZZA F., COSTA M., SIANO D. (2009) *Design issues concerning thermofluidynamic and acoustic aspects in a diesel engine suitable for aeronautical applications*. Int. Journal of Vehicle Design, **50** (1/2/3/4), pp. 152-181.
- 2009 P 1907** FRAIOLI V., BEATRICE C., GUIDO C. (2009) *Implementation and validation of a n-heptane kinetic combustion model for 3D-CFD codes by means of numerical calculations and single cylinder engine experiments*. In SAE Vol. SP-2245 "Multi-Dimensional Engine Modeling, 2009" (ISBN 978-0-7680-2141-7), SAE Technical Paper 2009-01-0708.
- 2009 P 1908** BEATRICE C., CAPALDI P., DEL GIACOMO N., GUIDO C., MANCARUSO E., VAGLIECO B.M. (2009) *Analysis of impact of Diesel fuel/biodiesel blends on a modern Diesel combustion system performance by means of injection test rig, optical and real SC engine experiments*. In SAE Vol. SP-2237 "CI Engine Performance for Use with Alternative Fuels, 2009" (ISBN 978-0-7680-2133-2), SAE Technical Paper 2009-01-0484.
- 2009 P 1909** BEATRICE C., DEL GIACOMO N., GUIDO C. (2009) *Benefits and drawbacks of compression ratio reduction in PCCI combustion application in an advanced LD Diesel engine*. SAE International Journal of Engines, **2** (1), pp. 1290-1303.
- 2009 P 1910** MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M. (2009) *Effect of the engine head geometry on the combustion process in a PFI boosted spark-ignition engine*. SAE International Journal of Engines, **2** (1), pp. 289-297.
- 2009 P 1911** TAGLIALATELA F., CESARIO N., PORTO M., MEROLA S.S., SEMENTA P., VAGLIECO B.M. (2009) *Use of accelerometers for spark advance control of SI engines*. SAE International Journal of Engines, **2** (1), pp. 971-981.
- 2009 P 1912** MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M. (2009) *Optical investigations of the abnormal combustion in a boosted spark-ignition PFI engine*. SAE International Journal of Engines, **2** (1), pp. 6329-644.
- 2009 P 1913** MANCARUSO E., VAGLIECO B.M. (2009) *Effect of RME fuel on combustion in optical engine operating in HCCI mode*. Proceedings 32nd Meeting of the Italian Section of The Combustion Institute – Combustion Colloquia, Napoli (Italy) 2009, Paper V-5.
- 2009 P 1914** BIZON K., CONTINILLO G., MANCARUSO E., VAGLIECO B.M. (2009) *Resolution enhancement of 2D images of fuel jets in a Diesel engine by pan sharpening algorithms*. Proceedings 32nd Meeting of the Italian Section of The Combustion Institute – Combustion Colloquia, Napoli (Italy) 2009, Paper V-6.
- 2009 P 1915** PRATI M.V., COSTAGLIOLA M.A. (2009) *Emissions of new technology Euro 4 vehicles*. Proceedings 32nd Meeting of the Italian Section of The Combustion Institute – Combustion Colloquia, Napoli (Italy) 2009, Paper V-16.
- 2009 P 1917** ALLOCCA L., MONTANARO A., CIPOLLA G., VASSALLO A. (2009) *Spatial-temporal characterization of alternative fuel sprays from a second-generation common-rail fuel injection system for Euro4 passenger car application*. Proceedings SAE 2009 Powertrains, Fuels and Lubricants Meeting, Firenze (Italy) 2009, SAE Technical Paper 2009-01-1856.
- 2009 P 1919** SIANO D., BOZZA F. (2009) *Combustion noise prediction in a small Diesel engine finalized to the optimization of the fuel injection strategy*. Proceedings SAE 2009 Noise and Vibration Conference and Exhibition, St. Charles, IL (USA) 2009, SAE Technical Paper 2009-01-2077.
- 2009 P 1921** JOUMARD R., LAURIKKO J., LE HAN T., GEIVANIDIS S., SAMARAS Z., MERÉTEI T., DEVAUX P., ANDRÉ J.-M., CORNELIS E., LACOUR S., PRATI M.V., VERMEULEN R., ZALLINGER M. (2009) *Accuracy of exhaust emission factor measurements on chassis dynamometer*. Journal of the Air & Waste Management Association, **59** (6), pp. 695-703.
- 2009 P 1922** CORBO P., MIGLIARDINI F., VENERI O. (2009) *PEFC stacks as power sources for hybrid propulsion systems*. International Journal of Hydrogen Energy, **34** (10), pp. 4635-4644.
- 2009 P 1923** MANCARUSO E., VAGLIECO B.M. (2009) *Optical investigation of the combustion behaviour inside the engine operating in HCCI mode and using alternative diesel fuel*. Proceed-

- ings 6th Mediterranean Combustion Symposium – MCS 6, Ajaccio (France) 2009.
- 2009 P 1924** MANCARUSO E., VAGLIECO B.M. (2009) *HCCI operation of an optically accessible diesel engine fuelled with RME fuel*. Proceedings 7th International Symposium on Towards Clean Diesel Engines – TCDE 2009, Aachen (Germany) 2009, Paper 16.
- 2009 P 1926** DI BERNARDO M., MONTANARO U., SANTINI S., DI GAETA A., GIGLIO V. (2009) *Design and validation of a novel model reference adaptive algorithm to control ETB for drive-by-wire applications*. SAE International Journal of Passenger Cars – Mechanical Systems, **2** (1), pp. 1268-1284.
- 2009 P 1927** COSTA M., IORIO B., SORGE U., ALFUSO A. (2009) *Assessment of a numerical model for multi-hole gasoline sprays to be employed in the simulation of spark ignition GDI engines with a jet-guided combustion mode*. Proceedings SAE 2009 Powertrains, Fuels and Lubricants Meeting, Firenze (Italy) 2009, SAE Technical Paper 2009-01-1915.
- 2009 P 1928** MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M. (2009) *Spectroscopic investigations and high resolution visualization of the combustion phenomena in a boosted PFI SI engine*. SAE International Journal of Engines, **2** (1), pp. 1617-1629 (SAE Paper 2009-01-1814).
- 2009 P 1929** SORUŞBAY C., IMREN A., ERGENEMAN M., VALENTINO G., ALLOCCA L. (2009) *Experimental and numerical investigation of diesel spray behaviour in high pressure common-rail systems*. International Journal of Vehicle Design, **50** (1/2/3/4), pp. 50-65.
- 2009 P 1930** MITCHELL J. B. A., DI STASIO S., LE GARREC L., FLORESCU-MITCHELL A. I., NARAYANAN T., SZTUCKI M. (2009) *Small angle x-ray scattering study of flame soot nanoparticle aggregation and restructuring*. Journal of Applied Physics, **105** (12), Paper 124904.
- 2009 P 1933** DE SIMIO L., GAMBINO M., IANNACCONE S. (2009) *Environmental advantages from biofuels employment*. Proceedings 12th European Automotive Congress – EAEC 2009, Bratislava (Slovakia) 2009.
- 2009 P 1934** MEROLA S.S., SEMENTA P., TORNATORE C. (2009) *Fuel effect on knocking and abnormal combustion processes in a boosted SI PFI engine*. Proceedings 12th European Automotive Congress – EAEC 2009, Bratislava (Slovakia) 2009.
- 2009 P 1935** CORBO P., MIGLIARDINI F., VENERI O. (2009) *Light metal hydrides as hydrogen storage system for fuel cell power trains*. Proceedings 12th European Automotive Congress – EAEC 2009, Bratislava (Slovakia) 2009.
- 2009 P 1936** CORBO P., MIGLIARDINI F., VENERI O. (2009) *Dynamic behaviour of hydrogen fuel cells for automotive application*. Renewable Energy, **34** (8), pp. 1955-1961.
- 2009 P 1937** CORBO P., MIGLIARDINI F. (2009) *Natural gas and biofuel as feedstock for hydrogen production on Ni catalysts*. Journal of Natural Gas Chemistry, **18** (1), pp. 9-14.
- 2009 P 1938** CORBO P., MIGLIARDINI F., VENERI O. (2009) *Hydrogen release properties of lithium alanate for application to fuel cell propulsion systems*. Journal of Power Sources, **193** (1), pp. 285-291.
- 2009 P 1939** BIZON K., CONTINILLO G., MEROLA S.S., VAGLIECO B.M. (2009) *Reconstruction of flame kinematics and analysis of cycle variation in a spark ignition engine by means of proper orthogonal decomposition*. In "Computer Aided Chemical Engineering, 26" (J. Jeżowski & J. Thullie, Eds), Proceedings of the 19th European Symposium on Computed Aided Process Engineering – ESCAPE19, pp. 1039-1043 (ISBN 978-0-444-53433-0).
- 2009 P 1940** VISCARDI M., RUSCIANO N., IADEVAIA M., SIANO D. (2009) *An optimization process experience for HVAC noise emission and flows distribution inside a passenger's train wagon*. Proceedings 16th International Congress on Sound and Vibration – ICSV16, Kraków (Poland) 2009.
- 2009 P 1943** CAMERETTI M.C., PIAZZESI R., REALE F., TUCCILLO R. (2009) *CFD analysis of the flameless combustion in a micro-gas turbine*. Proceedings ASME Turbo Expo 20098: Power for Land, Sea and Air – GT2009, Orlando (USA) 2009, Paper GT2009-59750.
- 2009 P 1944** SIANO D., AURIEMMA F., BOZZA F. (2009) *A correlation study of computational techniques of a three-pass perforated tube muffler including FEM and 1D methods*. Proceedings 3rd Int. Conference on Sustainable Energy & Environmental Protection – SEEP2009, Dublin (Ireland) 2009, pp. 301-306 (ISBN 978-0-9555781-2-0).
- 2009 P 1945** COSTA M., SORGE U., ALLOCCA L. (2009) *Numerical study of mixture formation process in a four stroke GDI engine for two-wheels applications*. Proceedings 3rd Int. Conference on Sustainable Energy & Environmental Protection – SEEP2009, Dublin (Ireland) 2009, pp. 307-312 (ISBN 978-0-9555781-2-0).
- 2009 P 1946** VALENTINO G., ALLOCCA L., IANNUZZI S., MONTANARO A. (2009) *Biodiesel/mineral Diesel fuel mixtures: spray evolution and engine performances and emissions characterization*. Proceedings 22nd Int. Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems – ECOS 2009, Foz do Iguaçu, Paraná (Brazil) 2009, pp. 2019-2028 (ISSN 2175-5426).
- 2009 P 1947** ALLOCCA L., COSTA M., MONTANARO A. (2009) *Experimental and numerical characterization of the fuel distribution by a GDI multi-hole injector for spark ignition engines*. Proceedings 11th Triennial International Conference on Liquid Atomization and Spray Systems – ICLASS 2009, Vail, Colorado (USA).
- 2009 P 1948** ALLOCCA L., ALFUSO S., MARCHITTO L., VALENTINO G. (2009) *GDI multi-hole injector: particle size and velocity distribution for single and jet-to-jet evolution analysis*. Proceedings 11th Triennial International Conference on Liquid Atomization and Spray Systems – ICLASS 2009, Vail, Colorado (USA).
- 2009 P 1949** APROVITOLA A., BRIANI M., FRAIOLI V., MIGLIACCIO M.N.A. (2009) *Effects of turbulence modeling for Diesel engine simulation within the OpenFOAM toolkit*. Proceedings 1st International Conference on Computational Methods for Thermal Problems – ThermaComp2009, Napoli 2009, pp. 326-329 (ISBN 978-88-7431-459-1).
- 2009 P 1950** DI STASIO S., IAZZETTA A. (2009) *Transient phonon heat transport in quasi-1D nanostructures*. Proceedings 1st International Conference on Computational Methods for

- Thermal Problems – ThermaComp2009, Napoli 2009, pp. 362-365 (ISBN 978-88-7431-459-1).
- 2009 P 1951** MIGLIACCIO M.NA, BEATRICE C., BRIANI M., FRAIOLI V. (2009) *Numerical simulations of Diesel engine combustion by means of OpenFOAM CFD toolbox*. Proceedings 9th International Conference on Engines & Vehicles – ICE2009, Capri (Italy) 2009, SAE Technical Paper 2009-24-0002.
- 2009 P 1952** COSTA M., SIANO D., VALENTINO G., ESPOSITO CORCIONE F., BOZZA F. (2009) *Prediction and optimization of the performances, noxious emissions and radiated noise of a light duty common-rail Diesel engine*. Proceedings 9th International Conference on Engines & Vehicles – ICE2009, Capri (Italy) 2009, SAE Technical Paper 2009-24-0011.
- 2009 P 1954** COSTA M., IORIO B., SORGE U., GIGLIO V., BOZZA F. (2009) *Numerical study of a GDI engine operating in the jet guided combustion mode*. Proceedings 9th International Conference on Engines & Vehicles – ICE2009, Capri (Italy) 2009, SAE Technical Paper 2009-24-0021.
- 2009 P 1955** PRIESCHING P., PAVLOVIC Z., ERTL P., DEL GIACOMO N., BEATRICE C., MANCARUSO E., VAGLIECO B.M. (2009) *Numerical and experimental investigation of the influence of bio-Diesel blends on the mixture formation, combustion and emission behavior of a modern HSDI Diesel engine*. Proceedings 9th International Conference on Engines & Vehicles – ICE2009, Capri (Italy) 2009, SAE Technical Paper 2009-24-0041.
- 2009 P 1956** ALLOCCA L., MANCARUSO E., MONTANARO A., VAGLIECO B.M., VASSALLO A. (2009) *Renewable bioDiesel/reference Diesel fuel mixtures distribution in non-evaporating and evaporating conditions for Diesel engines*. Proceedings 9th International Conference on Engines & Vehicles – ICE2009, Capri (Italy) 2009, SAE Technical Paper 2009-24-0054.
- 2009 P 1957** MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M., CARMIGNANI L., DI PALMA S. (2009) *Optical characterization of the combustion process in a 4-stroke engine for 2-wheel vehicle*. Proceedings 9th International Conference on Engines & Vehicles – ICE2009, Capri (Italy) 2009, SAE Technical Paper 2009-24-0055.
- 2009 P 1960** DE SIMIO L., GAMBINO M., IANNACCONE S. (2009) *A study of different EGR routes on a heavy duty stoichiometric natural gas engine*. Proceedings 9th International Conference on Engines & Vehicles – ICE2009, Capri (Italy) 2009, SAE Technical Paper 2009-24-0096.
- 2009 P 1961** CORDINER S., MULONE V., ROCCO V., SCARCELLI R., IANNACCONE S., GAMBINO M. (2009) *An experimental-numerical approach to reduce emissions of a dual fuel Diesel-natural gas engine*. Proceedings 9th International Conference on Engines & Vehicles – ICE2009, Capri (Italy) 2009, SAE Technical Paper 2009-24-0099.
- 2009 P 1962** UNICH A., MORRONE B., MARIANI A., PRATI M.V. (2009) *The impact of natural gas-hydrogen blends on internal combustion engines performance and emissions*. Proceedings 9th International Conference on Engines & Vehicles – ICE2009, Capri (Italy) 2009, SAE Technical Paper 2009-24-0102.
- 2009 P 1963** TAGLIALATELA F., CESARIO N., LAVORGNA M., MEROLA S.S., VAGLIECO B.M. (2009) *Use of engine crankshaft speed for determination of cylinder pressure parameters*. Proceedings 9th International Conference on Engines & Vehicles – ICE2009, Capri (Italy) 2009, SAE Technical Paper 2009-24-0108.
- 2009 P 1966** DELLA RAGIONE L., MECCARIELLO G., PUNZO V., CIUFFO B. (2009) *A preliminary study to evaluate emissions factors by real and micro simulated driving cycle*. Proceedings 9th International Conference on Engines & Vehicles – ICE2009, Capri (Italy) 2009, SAE Technical Paper 2009-24-0150.
- 2009 P 1967** PRATI M. V., DELLA RAGIONE L., MECCARIELLO G., COSTAGLIOLA M.A. (2009) *Emission factor comparison of new technology and conventional S.I. Euro4 cars*. Proceedings XIII Meeting EURO Working Group on Transportation, Padova (Italy) 2009 (ISBN 978-88-97385-20-2).
- 2009 P 1968** BOZZA F., SIANO D., COSTA M. (2009) *Heat transfer and knock modeling in a “downsized” spark-ignition turbocharged engine*. Proceedings 1st International Conference on Computational Methods for Thermal Problems – ThermaComp2009, Napoli 2009, pp. 318-321 (ISBN 978-88-7431-459-1).
- 2009 P 1969** MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M. (2009) *Effect of fuel injection strategies on the combustion process in a PFI boosted SI engine*. International Journal of Automotive Technology, **10** (5), pp. 545-553.
- 2009 P 1971** BERTOLI C., MASSOLI P. (2009) *Cicli combinati, l'innovazione migliora le prestazioni ambientali*. Nuova Energia, 2009 (3), pp. 48-52.
- 2009 P 1972** BERTOLI C., CIAJOLO A. (2009) *Carbone più pulito con tecnologie innovative*. Nuova Energia, 2009 (4), pp. 70-75.
- 2009 P 1973** GIORGIO M., GUIDA M., PULCINI G. (2009) *Markovian modeling of an age- and state-dependent wear process*. Proceedings 6th International Conference on Complex Data Modeling and Computationally Intensive Statistical Methods for Estimation and Prediction – S.Co. 2009, Milano (Italy) 2009, pp. 191-196 (ISBN 978-88387-4385-1).
- 2009 P 1974** MEROLA S.S., VAGLIECO B.M. (2009) *Optical investigations of fuel deposition burning in ported fuel injection (PFI) spark-ignition (SI) engine*. Energy, **34** (12), pp. 2108-2115.
- 2009 P 1975** COSTA M., DELL'ISOLA M., MASSAROTTI N. (2009) *Numerical analysis of the thermo-fluid-dynamic field in the combustion chamber of an incinerator plant*. Energy, **34** (12), pp. 2075-2086.
- 2009 P 1976** GIGLIO V., POLICE G., RISPOLI N., DI GAETA A., CECERE M., DELLA RAGIONE L. (2009) *Experimental investigation on the use of ion current on SI engines for knock detection*. Proceedings SAE 2009 Powertrains Fuels and Lubricants Meeting, San Antonio, TX (USA) 2009, SAE Technical Paper 2009-01-2745.
- 2009 P 1978** BERTOLI C., ANTONUCCI V. (2009) *La micro-cogenerazione trova un'alleata nelle celle a combustibile*. Nuova Energia, 2009 (5), pp. 90-95.
- 2009 P 1978** DI PALMA T.M., PRATI M.V., BORGHESE A. (2009) *Tunable single-photon ionization TOF mass spectrometry using laser-produced plasma as the table-top VUV light source*. Journal of the American Society for mass Spectrometry, **20** (12), pp. 2192-2198.

- 2009 P 1979** DI PALMA T.M., BORGHESE A. (2009) *Mass spectrometry of toluene clusters using a laser produced plasma for tunable single photon ionization*. Journal of Physics: Conference Series, **182**, Paper 012024.
- 2009 P 1981** CALABRIA R., MASSOLI P. (2009) *Spray combustion diagnostics*. Chapter 2 of the book "Laser Diagnostics in Combustion" (M. Lackner, Edt.), Verlag ProcessEng Engineering, pp. 11-32 (ISBN 978-3-902655-03-5).
- 2009 P 1982** ANTONELLI L., BRIANI M., D'AMBRA P., FRAIOLI V. (2009) *Positivity issues in adaptive solutions of detailed chemical schemes for engine simulations*. Communications to SIMAI Congress, **3**, pp. 303.1-303.12.
- 2009 P 1983** BORGHESE A., SPERANZA L. (2009) *Optical soundings of cars' exhaust and urban atmosphere with laser-plasma light and open-path spectrophotometry*. Journal of Physics: Conference Series, **182**, Paper 012037.
- 2009 P 1986** MEROLA S.S., SEMENTA P., TORNATORE C. (2009) *In-cylinder formation and exhaust emission of particulates from a 4-stroke engine of a 2-wheel vehicle*. Nafta-Gaz, **LXV** (11), pp. 849-856.
- 2009 P 1987** BEATRICE C., DEL GIACOMO N., GUIDO C. (2009) *Effects of cooled and super-cooled low pressure EGR systems on the LD Diesel engine performances*. In "Internal Combustion Engines: Performance, Fuel Economy and Emissions", Chandos Publishing, Oxford, pp. 67-78 (ISBN 978-1-84334-607-4).
- 2009 P 1993** DI GAETA A., FIENGO G., PALLADINO A., GIGLIO V. (2009) *A control oriented model of a Common-Rail System for gasoline direct injection engine*. Proceedings Joint 48th IEEE Conference on Decision and Control and 28th Chinese Control Conference, Shanghai (China) 2009, pp. 6614-6619.
- 2009 P 1995** BERTOLI C., AVANZINI P. (2009) *2065 Collasso energetico*. Velocità, **1** (10), pp. 10-16.
- 2009 P 1996** BOCCOLINI V., COPPOLA T., PACIOLLA A., LANDRI G. (2009) *The "Metrol del Mare". A comparison between sea and land public transportation*. Proceedings 16th International Conference of Ship and Shipping Research – NAV 2009, Messina (Italy) 2009, Vol. 1, pp. 243-252.
- 2009 P 2006** DELLA RAGIONE L., MECCARIELLO G. (2009) *Development of an "easy module" tool based on the kinematic emission model*. Proceedings 31st International Conference on Informaion Technology Interfaces – ITI 2009, Cavtat / Dubrovnik (Croatia) 2009, Vol. 1, pp. 169-174 (ISBN 978-953-7138-15-8).
- 2010**
- 2010 P 1876** GIORGIO M., PULCINI G. (2010) *Estimating Survival Probability*. In "Encyclopedia of Operations Research and Management Science" (James J. Cochran, Ed), John Wiley & Sons (Chichester) 2010, DOI:10.1002/9780470400531.eorms0304 (ISBN: 978-0-7923-7827-3).
- 2010 P 1877** GIORGIO M., PULCINI G. (2010) *Estimating Failure Rates and Hazard Functions*. In "Encyclopedia of Operations Research and Management Science" (James J. Cochran, Ed), John Wiley & Sons (Chichester) 2010, DOI:10.1002/9780470400531.eorms0302 (ISBN: 978-0-7923-7827-3).
- 2010 P 1953** BOZZA F., SIANO D., TORELLA E. (2010) *Cycle-by-cycle analysis, knock modeling and spark-advance setting of a "downsized" spark-ignition turbocharged engine*. SAE International Journal of Engines, **2** (2), pp. 381-389 (SAE Paper 2009-24-0020).
- 2010 P 1958** BIZON K., CONTINILLO G., LOMBARDI S., MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M. (2010) *Analysis of flame kinematics and cycle variation in a port fuel Injection spark ignition engine*. SAE International Journal of Engines, **2** (2), pp. 443-451 (SAE Paper 2009-24-0057).
- 2010 P 1959** BEATRICE C., DI IORIO S., GUIDO C., MANCARUSO E., VAGLIECO B.M., VASSALLO A. (2010) *Alternative Diesel fuels effects on combustion and emissions of an Euro4 automotive Diesel engine*. SAE International Journal of Engines, **2** (2), pp. 542-561 (SAE Paper 2009-24-0088).
- 2010 P 1964** BEATRICE C., BERTOLI C., DEL GIACOMO N., GUIDO C. (2010) *Experimental investigation of the benefits of cooled and extra-cooled low-pressure EGR on a light duty Diesel engine performance*. SAE International Journal of Fules and Lubricants, **2** (2), pp. 617-626 (SAE Paper 2009-24-0126).
- 2010 P 1965** IODICE P., SENATORE A., MECCARIELLO G., PRATI M.V. (2010) *Methodology for the analysis of a 4-stroke moped emission behaviour*. SAE International Journal of Engines, **2** (2), pp. 542-561 (SAE Paper 2009-24-0142).
- 2010 P 1977** DI GAETA A., GIGLIO V., POLICE G. (2010) *Model-based decoupling control of a magnet engine valve actuator*. SAE International Journal of Engines, **2** (2), pp. 254-271 (SAE Paper 2009-01-2751).
- 2010 P 1980** COSTA M., SIANO D., ALLOCCA L., MONTANARO A., BOZZA F. (2010) *Light duty Diesel engine: optimization of performances, noxious emission and radiated noise*. SAE International Journal of Engines, **2** (2), pp. 740-748 (SAE Paper 2009-32-0105).
- 2010 P 1991** GIORGIO M., GUIDA M., PULCINI G. (2010) *A state-dependent wear model with an application to marine engine cylinder liners*. *Technometrics*, **52** (2), pp. 172-187.
- 2010 P 1992** GIORGIO M., GUIDA M., PULCINI G. (2010) *A parametric Markov chain to model age- and state-dependent wear processes*. In "Complex Data Modeling and Computationally Intensive Statistical Methods" (P. Mantovan and P. Secchi, Eds), Springer-Verlag Italia (Milano) 2010, pp. 85-97 (ISBN 978-88-470-1385-8).
- 2010 P 1997** MEROLA S.S., SEMENTA P., TORNATORE C., VAGLIECO B.M. (2010) *Effect of fuel injection strategy on the combustion process in a PFI boosted spark-ignition engine*. *Energy*, **35** (2), pp. 1094-1100.
- 2010 P 1998** VAGLIECO B.M. (2010) *Multiple injection diesel combustion process in the high-speed direct injection diesel engine*. In "Advanced Direct Injection Combustion Engine Technologies and Development", Woodhead Publishing (Cambridge) 2010, Vol. 2, pp. 155-174 (ISBN 978-1-84569-744-0).
- 2010 P 1999** MANCARUSO E., VAGLIECO B.M. (2010) *Optical investigation of the combustion behaviour inside the engine operating in HCCI mode and using alternative diesel fuel*. *Experimental Thermal and Fluid Science*, **34** (3), pp. 346-351.

- 2010 P 2000** GIORGIO M., GUIDA M., PULCINI G. (2010) *Repairable system analysis in presence of covariates and random effects*. Proceedings 3th International Conference on Accelerated Life Testing, Reliability-based Analysis and Design – ALT'2010, Clermont-Ferrand (France) 2010, pp. 255-262.
- 2010 P 2001** BIZON K., CONTINILLO G., MANCARUSO E., MEROLA S.S., VAGLIECO B.M. (2010) *POD-based analysis of combustion images in optically accessible engines*. Combustion and Flame, **157** (4), pp. 632-640.
- 2010 P 2005** MEROLA S.S., SEMENTA P., TORNATORE C., DI PALMA S., CARMIGLIANI L. (2010) *Characterization of the thermo-chemical processes involved in SI engine by optical measurements*. Proceedings 10th Stuttgart International Symposium on Automotive and Engine Technology, Stuttgart (Germany) pp.133-157.
- 2010 P 2007** MITCHELL J. B. A., DI STASIO S., LE GARREC L., FLORESCU-MITCHELL A. I. (2010) *Synchrotron radiation studies of additives in combustion I: Water*. Nuclear Instruments and Methods in Physics Research B, **268** (9), pp. 1486-1491.
- 2010 P 2008** MANCARUSO E., VAGLIECO B.M., CIARAVINO C. (2010) *Combustion analysis in an optical Diesel engine operating with low compression ratio and biodiesel fuels*. In SAE Vol. SP-2279 "Mixing-Controlled CD Combustion, 2010" (ISBN 978-0-7680-3416-5), SAE Technical Paper 2010-01-0865.
- 2010 P 2009** LUCCHINI T., D'ERRICO G., ETTORE D., BRUSIANI F., BIANCHI G.M., MONTANARO A., ALLOCCA L. (2010) *Experimental and numerical investigation of high-pressure Diesel sprays with multiple injections at engine conditions*. In SAE Vol. SP-2282 "Multi-Dimensional Engine Modeling, 2010" (ISBN 978-0-7680-3419-6), SAE Technical Paper 2010-01-0179.
- 2010 P 2010** ALLOCCA L., MARCHITTO L., ALFUSO S., HAMPAL D., CAPPUCCIO G., DABAGOV S.B. (2010) *Gasoline spray imaging by polycapillary X-ray technique*. In AIP Conference Proceedings Vol. 1221 "X-Ray Optics and Microanalysis" (M.A. Denecke & C.T. Walker, Eds), American Institute of Physics, Melville (USA), pp. 191-195 (ISBN 978-0-7354-0764-0).
- 2010 P 2011** BOCCHETTI D., GIORGIO M., GUIDA M., PULCINI G. (2010) *Processo di usura nelle camicie di un motore Diesel per la propulsione navale: un approccio stocastico*. Proceedings XI Convegno di Tribologia su Attrito, Usura e Lubrificazione in Campo Navale, Napoli (Italy) 2010.
- 2010 P 2013** COSTA M., ALLOCCA L., MONTANARO A., SORGE U., IORIO B. (2010) *Multiple injection in the mixed mode GDI boosted engine*. Proceedings SAE 2010 International Powertrains, Fuels and Lubricants Meeting, Rio de Janeiro (Brazil) 2010, SAE Technical Paper 2010-01-1496.
- 2010 P 2014** ALLOCCA L., MANCARUSO E., MONTANARO A., VAGLIECO B.M. (2010) *Alternative Diesel fuels characterization in non-evaporating and evaporating conditions for Diesel engines*. SAE International Journal of Fuels and Lubricants, **3** (2), pp. 219-228 (SAE Paper 2010-01-1516).
- 2010 P 2015** CALIFANO V., CHIARIELLO F., CALABRIA R., MASSOLI P. (2010) *Optimizing water/fuel emulsions for effective droplets micro-explosion in combustion systems*. Proceedings ASME-ATI-UIT 2010 Conference on Thermal and Environmental Issues in Energy Systems, Sorrento (Italy) 2010 (ISBN 978-884672659-9).
- 2010 P 2016** GUIDO C., BEATRICE C., DI IORIO S., FRAIOLI V., DI BLASIO G., VASSALLO A., CIARAVINO C. (2010) *Alternative Diesel fuels effects on combustion and emissions of an Euro5 automotive Diesel engine*. SAE International Journal of Fuels and Lubricants, **3** (1), pp. 107-132 (SAE Paper 2010-01-0472).
- 2010 P 2017** BEATRICE C., GUIDO C., DI IORIO S., NAPOLITANO P., DEL GIACOMO N. (2010) *Impact of RME and GTL fuel on combustion and emissions of a "torque-controlled" Diesel automotive engines*. SAE International Journal of Fuels and Lubricants, **3** (2), pp. 118-134 (SAE Paper 2010-01-1477).
- 2010 P 2018** VALENTINO G., IANNUZZI S., ESPOSITO CORCIONE F. (2010) *Effects of low temperature premixed combustion (LTPC) on emissions of a modern Diesel engine for passenger cars*. Proceedings SAE 2010 World Congress & Exhibition, Detroit (USA) 2010, SAE Technical Paper 2010-01-0333.
- 2010 P 2019** DELLA RAGIONE L., MECCARIELLO G. (2010) *The evaluation of a new kinematic emissions model on real and simulated driving cycles* SAE International Journal of Fuels and Lubricants, **3** (2), pp. 521-532 (SAE Paper 2010-01-1564).
- 2010 P 2020** GUIDO C., BEATRICE C., DI IORIO S., CIARAVINO C., VASSALLO A., CIPOLLA G. (2010) *Experimental investigation over closed-loop combustion control potentiality for mitigating the impact of alternative Diesel fuels on performance and emissions of a Euro5 automotive Diesel engine*. Proceedings FISITA 2010 World Automotive Congress, Budapest (Hungary) 2010, Paper F2010-A-167.
- 2010 P 2021** DI STASIO S. (2010) *Surface chemistry of NO2 adsorption on zinc oxide quasi 1-D nanostructures*. Proceedings of the GILDA Meeting, Palermo (Italy) 2010, pp. 90-93.
- 2010 P 2022** ORTENZI F., COSTAGLIOLA M.A. (2010) *A new method to calculate instantaneous vehicle emissions using OBD data*. Proceedings SAE 2010 World Congress & Exhibition, Detroit (USA) 2010, SAE Technical Paper 2010-01-1289.
- 2010 P 2023** ALESSANDRINI A., ORTENZI F., ORECCHINI F., VILLATICO CAMPBELL F., COSTAGLIOLA M.A., PRATI M.V. (2010) *Does European type approval procedure encourage the diffusion of hybrid and other low emission vehicles?* Proceedings SAE 2010 International Powertrains, Fuels and Lubricants Meeting, Rio de Janeiro (Brazil) 2010, SAE Technical Paper 2010-01-1445.
- 2010 P 2024** DELLA RAGIONE L., MECCARIELLO G. (2010) *Prediction of pollutant emission using partial least squares method*. Proceedings 32nd International Conference on Information Technology Interfaces – ITI 2010, Cavtat /Dubrovnik (Croatia) 2010, pp. 521-526 (ISBN 978-953-7138-19-6).
- 2010 P 2026** BUONO D., SENATORE A., PRATI M.V. (2010) *Particulate filter behaviour of a Diesel engine fueled with bio-diesel*. Proceedings ASME-ATI-UIT 2010 Conference on Thermal and Environmental Issues in Energy Systems, Sorrento (Italy) 2010, pp. 139-145 (ISBN 978-884672659-9).
- 2010 P 2027** DE SIMIO L., GAMBINO M., IANNACCONE S. (2010) *Dual fuel engines for utilization of waste vegetable oil and municipal organic fraction as energy source in urban areas*. Proceedings 4th International Conference on Sustainable Energy & Environmental Protection – SEEP 2010, Bari (Italy) 2010.
- 2010 P 2028** ALLOUIS C., MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2010) *IR analysis of diesel combustion in a transparent Euro5 diesel engine*. Proceedings International Conference on Pro-

- cesses and Technologies for a Sustainable Energy – PTSE 2010, Ischia (Italy) 2010 (ISBN 978-88-88104-11-9).
- 2010 P 2029** CATAPANO F., SEMENTA P., VAGLIECO B.M. (2010) *Spectroscopic investigation in a SI optical engine fuelled with gasoline and ethanol*. Proceedings International Conference on Processes and Technologies for a Sustainable Energy – PTSE 2010, Ischia (Italy) 2010 (ISBN 978-88-88104-11-9).
- 2010 P 2030** CATAPANO F., SEMENTA P., VAGLIECO B.M. (2010) *Optical investigation in a GDI engine operating in homogeneous and stratified charge mixture conditions fuelled with gasoline and ethanol*. Proceedings 23rd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems – ECOS 2010, Lausanne (Switzerland) 2010, Vol. 5 “Fuel cell and Internal combustion engines”, pp. 201-208 (ISBN 9781456303204).
- 2010 P 2031** DE SIMIO L., GAMBINO M., IANNACCONE S. (2010) *Use of hydrogen-methane mixtures for heavy duty engines*. Proceedings 12th Biennial IANGV Conference and Exhibition, Roma (Italy) 2010.
- 2010 P 2032** TORNATORE C., SEMENTA P., MEROLA S.S. (2010) *Optical characterization of the thermo-chemical processes in a SI small engine for the reduction in fuel consumption and pollutants emission*. Proceedings 23rd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems – ECOS 2010, Lausanne (Switzerland) 2010, Vol. 5 “Fuel cell and Internal combustion engines”, pp. 209-216 (ISBN 9781456303204).
- 2010 P2033** DI PALMA T.M., BEBDE A., BORGHESE A. (2010) *Photoionisation and structures of jet-formed toluene clusters*. Chemical Physics Letters, **495**, pp. 17-23.
- 2010 P 2034** RAUCH B., CALABRIA R., CHIARIELLO F., LE CLERCQ P., MASSOLI P., RACHNER M. (2010) *Accurate analysis of multicomponent spray evaporation in a turbulent flow*. Proceedings 15th International Symposium on Applications of Laser Techniques to Fluid Mechanics, Lisbon (Portugal) 2010.
- 2010 P2035** BEATRICE C., GUIDO C., IORIO S. (2010) *Experimental analysis of alternative fuel impact on a new “torque-controlled” light-duty diesel engine for passenger cars*. Fuel, **89** (11), pp. 3278-3286.
- 2010 P 2037** ALLOCCA L., MANCARUSO E., MONTANARO A., SEQUINO L., VAGLIECO B.M. (2010) *Bio- and mineral-fuel spray evolution in non-evaporating and evaporating conditions by image processing techniques*. Proceedings 23rd Annual Conference on Liquid Atomization and Spray Systems – ILASS-Europe 2010, Brno (Czech Republic) 2010, Paper 209 (ISBN 978-80-7399-997-1).
- 2010 P2038** BALLAIS R., GALLARDO-RUIZ J.M., MEROLA S.S., SEMENTA P., TORNATORE C. (2010) *Optical diagnostics of the cycle-to-cycle variation in the kernel development and abnormal combustion: SI small engine*. Journal of KONES Powertrain and Transport, **17** (2), pp. 17-25.
- 2010 P2039** GALLARDO-RUIZ J.M., BALLAIS R., MEROLA S.S., SEMENTA P., TORNATORE C. (2010) *Optical diagnostics of the cyclic variation in the kernel development and abnormal combustion: SI boosted engine*. Journal of KONES Powertrain and Transport, **17** (2), pp. 103-111.
- 2010 P2040** MEROLA S.S., SEMENTA P., TORNATORE C. (2010) *Optical diagnostics in a spark ignition engine for two-wheel vehicles*. Journal of KONES Powertrain and Transport, **17** (4), pp. 323-336.
- 2010 P 2041** COSTA M., SIANO D., BOZZA F. (2010) *Modeling of the combustion process in a common rail Diesel engine for the prediction of noxious emissions and radiated noise*. Proceedings 7th International Conference on Engineering Computational Technology, Valencia (Spain) 2010, Paper 49 (ISBN 978-90088-39-3).
- 2010 P 2042** SORGE U., COSTA M., ALLOCCA L. (2010) *Optimization of the mixture formation process by split injection in a gasoline direct injection engine for two-wheel applications*. Proceedings 7th International Conference on Engineering Computational Technology, Valencia (Spain) 2010, Paper 53 (ISBN 978-90088-39-3).
- 2010 P 2043** ALLOCCA L., MANCARUSO E., MONTANARO A., SEQUINO L., VAGLIECO B.M. (2010) *Effects of mineral and biodiesel fuel compositions on spray evolution and mixture distribution*. Proceedings Conference on Thermo- and Fluid Dynamic Processes in Diesel Engines – THIESEL 2010, Valencia (Spain) 2010, pp. 39-50 (ISBN 978-84-6935009-6).
- 2010 P2044** GIORDANO S., ADAMO P., SPAGNUOLO V., VAGLIECO B.M. (2010) *Instrumental and bio-monitoring of heavy metal and nanoparticle emissions from diesel engine exhaust in controlled environment*. Journal of Environmental Sciences, **22** (9), pp. 1357-1363.
- 2010 P 2045** GUIDA M., POSTIGLIONE F., PULCINI G. (2010) *A time-discrete extended Gamma process for deterioration processes*. In “Reliability, Risk and Safety” (B. Ale, I. Papazoglou & E. Zio, Eds), Taylor & Francis (London) 2010, pp. 746-753 (ISBN 978-0-415-60427-7).
- 2010 P 2046** SIANO D., BOZZA F., AURIEMMA F. (2010) *Pros and cons of using different numerical techniques for transmission loss evaluation of a small engine muffler*. Proceedings SAE 2010 Small Engine Technology Conference, Linz (Austria) 2010, SAE Technical Paper 2010-32-0028.
- 2010 P 2047** FONTANA G., BOZZA F., GALLONI E., SIANO D. (2010) *Experimental and numerical analyses for the characterization of the cyclic dispersion and knock occurrence in a small-size SI engine*. Proceedings SAE 2010 Small Engine Technology Conference, Linz (Austria) 2010, SAE Technical Paper 2010-32-0069.
- 2010 P 2048** SIANO D., BOZZA F., COSTA M. (2010) *Integrated numerical procedures for the design, analysis and optimization of Diesel engines*. Chapter 8 of the book “Fuel Injection” (D. Siano, Ed), Sciyo (Rijeka) 2010, pp. 143-166 (ISBN: 978-953-307-116-9).
- 2010 P 2050** FRAIOLI V., BEATRICE C., LAZZARO M. (2010) *Carbon particle size distribution function calculations in 3D CFD Diesel engine simulations*. Proceedings Conference on Thermo- and Fluid Dynamic Processes in Diesel Engines – THIESEL 2010, Valencia (Spain) 2010, pp. 467-480 (ISBN 978-84-6935009-6).
- 2010 P 2051** GIORGIO M., PULCINI G. (2010) *Estimating Intensity and Mean Function*. In “Encyclopedia of Operations Research and Management Science” (James J. Cochran, Ed), John Wiley

- & Sons (Chichester) 2010, DOI:10.1002/9780470400531.eorms0303 (ISBN: 978-0-7923-7827-3).
- 2010 P 2052** CHIARAMONTI D., RIZZO A.M., PRUSSI M., RICCIO G., MASSOLI P., CALABRIA R. (2010) *Liquid biofuels for stationary energy generation. The Bioliquids-CHP EU-Russia Project*. Proceedings 18th European Biomass Conference and Exhibition, Lyon (France) 2010, pp. 1036–1042.
- 2010 P 2053** PINELLI M., CADORIN M., VACCARI A., MASSOLI P., CALABRIA R., CHIARIELLO F., BIANCHI E. (2010) *Analisi numerica e sperimentale delle prestazioni di un combustore di una micro turbina a gas alimentata con gas di sintesi*. Proceedings 65° Congresso Nazionale ATI, Domus de Maria (Cagliari) 2010, pp. 1036–1042.
- 2010 P 2054** ARMENTANI A., CATAPANO F., SEMENTA P., VAGLIECO B.M. (2010) *Progettazione per un motore GDI a carica stratificata reso otticamente accessibile*. Proceedings XXXIX Convegno Nazionale AIAS 2010, Maratea (Potenza) 2010, Paper 076.
- 2010 P 2055** SGRO L.A., RUSCIANO G., SIRIGNANO M., SEMENTA P., VAGLIECO B.M., D'ANNA A., MINUTOLO P. (2010) *Characterizing nucleation mode particles: size and charge distribution and chemical structure by surface-enhanced raman spectroscopy*. Abstracts 8th International Aerosol Conference – IAC 2010, Helsinki (Finland) 2010.
- 2010 P 2058** ALLOCCA L., MANCARUSO E., MONTANARO A., SEQUINO L., VAGLIECO B.M. (2010) *Spray properties of alternative fuels: a comparative analysis of mineral and 1st-2nd generation bio-diesel*. Proceedings DIPSI Workshop 2010 on Droplet Impact Phenomena & Spray Investigation, Bergamo 2010 (ISBN 978-88-69333-51-8).
- 2010 P 2060** IMREN A., GOLOVITCHEV V., SORUSBAY C., VALENTINO G. (2010) *The full cycle HD Diesel engine simulations using KIVA-4 code*. Proceedings SAE 2010 Powertrains, Fuels & Lubricants Meeting, San Diego (USA) 2010, SAE Technical Paper 2010-01-2234.
- 2010 P 2061** DI GAETA A., GIGLIO V., POLICE G., REALE F., RISPOLI N. (2010) *Modeling pressure oscillations under knocking conditions: a partial differential wave equation approach*. Proceedings SAE 2010 Powertrains, Fuels & Lubricants Meeting, San Diego (USA) 2010, SAE Technical Paper 2010-01-2185.
- 2010 P 2062** DI BERNARDO M., DI GAETA A., MONTANARO U., SANTINI S. (2010) *Synthesis and experimental validation of the novel LQ-NEMCSI adaptive strategy on an electronic throttle valve*. IEEE Transactions on Control, Systems, Technology, **18** (6), pp. 1325-1337.
- 2010 P 2063** DI GAETA A., MONTANARO U., MASSIMINO S., VELASCO C.I.H. (2010) *Experimental investigation of a double magnet EMVA at key-on engine: a mechanical resonance based control strategy*. Proceedings SAE 2010 Powertrains, Fuels & Lubricants Meeting, San Diego (USA) 2010, SAE Technical Paper 2010-01-2223.
- 2010 P 2064** DI GAETA A., MONTANARO U., GIGLIO V. (2010) *Idle speed control of GDI-SI engines via ECU-1D engine co-simulation*. Proceedings SAE 2010 Powertrains, Fuels & Lubricants Meeting, San Diego (USA) 2010, SAE Technical Paper 2010-01-2220.
- 2010 P2067** MINUTOLO P., SGRO A.L., COSTAGLIOLA M.A., PRATI M.V., SIRIGNANO M., D'ANNA A. (2010) *Ultrafine particle emission from combustion devices burning natural gas*. Chemical Engineering Transactions, **22**, pp. 239-244.
- 2010 P 2068** ARSIE I., CRISCUOLO I., DE SIMIO L., IANNACCONE S. (2010) *Ottimizzazione delle leggi di controllo di un motore heavy-duty alimentato a gas naturale*. Proceedings 65° Congresso Nazionale ATI, Domus de Maria (CA) 2010.
- 2010 P 2073** TORNATORE C., MEROLA S.S., SEMENTA P. (2010) *Combustion process investigation in a small SI engine using optical diagnostics*. Proceedings SAE 2010 Powertrains, Fuels & Lubricants Meeting, San Diego (USA) 2010, SAE Technical Paper 2010-01-2262.
- 2010 P 2075** MANCARUSO E., SEMENTA P., VAGLIECO B.M. (2010) *OH radical detection by means of non intrusive diagnostics in internal combustion engines*. Proceedings 12° Convegno Nazionale delle Tecnologie Fotoniche – Fotonica 2010, Pisa 2010.
- 2010 P 2076** CORBO P., ESPOSITO CORCIONE F., MIGLIARDINI F., VENERI O. (2010) *Lithium polymer batteries and proton exchange membrane fuel cells as energy sources in hydrogen electric vehicles*. Journal of Power Sources, **195** (23), pp. 7849-7854.
- 2010 P 2095** BERTOLI C. (2010) *Energy & Transport. Current Status and Future Trends of Scientific Research. 2nd Edition*. Consiglio Nazionale delle Ricerche, Roma 2010 (ISBN 978-88-903312-6-8).
- 2010 P 2187** BERTOLI C., DELLE SITE V. (2010) *L'innovativa struttura delle "smart grid". La moltiplicazione delle rinnovabili*. Formiche, Anno VII, 52, pp. 62-64.
- 2010 P 2202** GARGIULO N., IMPERATORE M., APREA P., IUCOLANO F., CORBO P., MIGLIARDINI F., VENERO O., UNICH A., PEPE F., CAPUTO D. (2010) *Hydrogen storage in metal organic frameworks: preliminary data on dynamic investigation*. Proceedings 16th International Zeolite Conference & 7th International Mesosstructured Materials Symposium – IZC-IMMS 2010, Sorrento (Italy) 2010, pp. 1371-1372 (ISBN 978-88-89976-29-6).
- 2010 P 2203** GARGIULO N., IMPERATORE M., APREA P., IUCOLANO F., CORBO P., MIGLIARDINI F., VENERO O., UNICH A., PEPE F., CAPUTO D. (2010) *Stoccaggio di idrogeno in materiali ad impalcatura metallo-organica (MOF): Dati preliminari delle prove di adsorbimento/desorbimento in condizioni dinamiche*. Proceedings 10° Congresso Nazionale AIMAT, Capo Vaticano (Italy) 2010, pp. 309-312 (ISBN 978-88-7458-114-6).
- 2010 P 2295** SIANO D. (2010) *Fuel Injection*. SCYO, Rijeka (Croatia) 2010, pp.254 (ISBN 978-953-307-116-9).
- 2010 P 2724** CAMERETTI M.C., PIAZZESI R., REALE E., TUCCILLO R. (2010) *Comparison of external and internal EGR concepts for low emission micro gas turbines*. Proceedings of ASME Turbo Expo 2010: Power for Land, Sea and air –Glasgow (Scotland), pp.14.

2011

- 2011 P 2012** GIORGIO M., GUIDA M., PULCINI G. (2011) An age- and state-dependent Markov model for degradation processes. *IIE Transactions*, **43** (9), pp. 621–632.
- 2011 P 2036** COSTA M., SORGE U., ALLOCCA L. (2011) *Numerical study of the mixture formation process in a four-stroke GDI engine for two-wheel applications*. Simulation Modelling Practice and Theory, **19** (4), pp. 1212–1226.
- 2011 P 2049** SIANO D. (2011) *Three-dimensional/one-dimensional numerical correlation study of a three-pass perforated tube*. Simulation Modelling Practice and Theory, **19** (4), pp. 1143–1153.
- 2011 P 2069** MANCARUSO E., VAGLIECO B.M. (2011) *Spectroscopic measurements of premixed combustion in diesel engine*. Fuel, **90** (2), pp. 511–520.
- 2011 P 2074** DE NICOLA F., LANCELLOTTI C., PRATI M. V., MAISTO G., ALFANI A. (2011) *Biomonitoring of PAHs by using Quercus ilex leaves: source diagnostic and toxicity assessment*. Atmospheric Environment, **45** (7), pp. 1428–1433.
- 2011 P 2077** MEROLA S.S., SEMENTA P., TORNATORE C. (2011) *Experiments on knocking and abnormal combustion through optical diagnostics in a boosted spark ignition port fuel injection engine*. International Journal of Automotive Technology, **12** (1), pp. 93–101.
- 2011 P 2078** BOZZA F., SIANO D., COSTA M. (2011) *Heat transfer, knock modeling and cyclic variability in a “downsized” spark-ignition turbocharged engine*. Advances in Applied Mathematics and Mechanics, **3** (3), pp. 310–326.
- 2011 P 2079** BEATRICE C., GUIDO C., NAPOLITANO P., DI IORIO S., DEL GIACOMO N. (2011) *Assessment of biodiesel blending detection capability of the on-board diagnostic of the last generation automotive diesel engines*. Fuel, **90** (5), pp. 2039–2044.
- 2011 P 2080** DI STASIO S., LE GARREC J.L., MITCHELL J.B.A. (2011) *Synchrotron radiation studies of additives in combustion, II: Soot agglomerate microstructure change by alkali and alkali-earth metal addition to a partially premixed flame*. Energy & Fuels, **25** (3), pp. 916–925.
- 2011 P 2081** CAMMINATIello I., D’AMBRA L., MECCARIELLO G., DELLA RAGIONE L. (2011) *A study of instantaneous emissions through the decomposition of directional measures for three-way contingency tables with ordered categories*. Journal of Applied Sciences, **11** (4), pp. 693–699.
- 2011 P 2082** TAGLIALATELA-SCAFATI F., CESARIO N., LAVORGNA M., MANCARUSO E., VAGLIECO B.M. (2011) *Diagnosis and control of advanced Diesel combustions using engine vibration signal*. Proceedings SAE 2011 World Congress & Exhibition, Detroit, MI (USA) 2011, SAE Technical Paper 2011-01-1414.
- 2011 P 2083** MANCARUSO E., SEQUINO L., VAGLIECO B.M., CIARAVINO C., VASSALLO A. (2011) *Spray formation and combustion analysis in an optical single cylinder engine operating with fresh and aged biodiesel*. SAE International Journal of Engines, **4** (1), pp. 1963–1977 (SAE Paper 2011-01-1381).
- 2011 P 2084** DI IORIO S., LAZZARO M., SEMENTA P., VAGLIECO B.M., CATAPANO F. (2011) *Use of renewable oxygenated fuels in order to reduce particle emissions from a GDI high performance engine*. In SP-2320 "Emissions Measurement and Testing, 2011" (ISBN: 978-0-7680-4759-2), SAE Technical Paper 2011-01-0628.
- 2011 P 2085** SEMENTA P., VAGLIECO B.M., CATAPANO F. (2011) *Non-intrusive investigation in a small GDI optical engine fuelled with gasoline and ethanol*. SAE International Journal of Engines, **4** (1), pp. 50–68 (SAE Paper 2011-01-0140).
- 2011 P 2086** GUIDO C., BEATRICE C., DI IORIO S., NAPOLITANO P., DI BLASIO G., VASSALLO A., CIARAVINO C. (2011) *Assessment of closed-loop combustion control capability for biodiesel blending detection and combustion impact mitigation for an Euro5 automotive Diesel engine*. Proceedings SAE 2011 World Congress & Exhibition, Detroit, MI (USA) 2011, SAE Technical Paper 2011-01-1193.
- 2011 P 2087** ESPOSITO CORCIONE F., IANNUZZI S., MARCHITTO L., MEROLA S.S., VALENTINO G. (2011) *Evaluation of soot and flame lift-off length in a high swirl optically accessed Diesel engine*. Proceedings 10th Engine Combustion Processes Congress: Current Problems and Modern Techniques, München (Germany) 2011, pp. 437–448.
- 2011 P 2088** VALENTINO G., ALLOCCA L., MARCHITTO L. (2011) *PIV investigation of high swirl flow on spray structure and its effect on emissions in a Diesel-like environment*. Proceedings SAE 2011 World Congress & Exhibition, Detroit, MI (USA) 2011, SAE Technical Paper 2011-01-1286.
- 2011 P 2090** MONTANARO A., ALLOCCA L., ETTORRE D., LUCCHINI T., BRUSIANI F., CAZZOLI G. (2011) *Experimental characterization of high-pressure impinging sprays for CFD modeling of GDI engines*. SAE International Journal of Engines, **4** (1), pp. 747–763 (SAE Paper 2011-01-0685).
- 2011 P 2091** ALLOCCA L., COSTA M., MONTANARO A., SORGE U. (2011) *A portable numerical model for the spray dynamics from GDI multi-hole injectors*. Proceedings 10th Engine Combustion Processes Congress: Current Problems and Modern Techniques, München (Germany) 2011, pp. 291–300.
- 2011 P 2092** ARSIE I., CRISCUOLO I., DE SIMIO L., IANNACCONE S. (2011) *Optimization of control parameters for a heavy-duty CNG engine via co-simulation analysis*. In SP-2317 "Powertrain Control and Optimization, 2011" (ISBN 978-0-7680-4756-1), SAE Technical Paper 2011-01-0704.
- 2011 P 2094** BERTOLI C. (2011) *Le Ricerche del Dipartimento Sistemi di Produzione del CNR e lo Sviluppo delle Prospettive Internazionali*. Consiglio Nazionale delle Ricerche, Roma 2011 (ISBN 978-88-903312-9-9).
- 2011 P 2096** MURA E., JOSSET C., LOUBAR K., BELLETTRE J., MASSOLI P. (2011) *Experimental study of the water vaporization temperature for water in oil emulsions by differential scanning calorimetry analysis*. In "Energy Solutions for a Sustainable World" (U. Desideri & J. Yan, Eds), Tree (Milano) 2011, pp. 2941–2950 (ISBN 9788890584305).
- 2011 P 2097** TORNATORE C., SEMENTA P., MEROLA S.S. (2011) *Optical investigations of the early combustion phase in spark ignition boosted engines*. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, **225** (6), pp. 787–800.
- 2011 P 2098** MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2011) *First and second generation biodiesels spray characterization in a Diesel engine*. Fuel, **90** (9), pp. 2870–2883.

- 2011 P 2099** MANCARUSO E., VAGLIECO B.M. (2011) *Optical single cylinder CI engine fuelled with ethanol and Diesel fuel*. Abstracts 8th International Symposium Towards Clean Diesel Engines – TCDE 2011, Chester (UK) 2011, pp. 83-85 (ISBN 978-0-9569233).
- 2011 P 2100** SEMENTA P., VAGLIECO B.M., CATAPANO F. (2011) *Influence of the injection pressure on the combustion performance and emissions of small GDI engine fuelled with bio-ethanol*. Proceedings SAE Conference on Highlighting the Latest Powertrain, Vehicle and Infomobility Technologies, Torino 2011, SAE Technical Paper 2011-37-0007.
- 2011 P 2101** TORNATORE C., MARCHITTO L., MAZZEI A., VALENTINO G., ESPOSITO CORCIONE F., MEROLA S.S. (2011) *Efectul asupra procesului de ardere al amestecurilor de benzină/ motorină și n-butanol/motorină la un motor cu aprindere prin comprimare cu vizualizare optică*. Ingineria Automobilului, **11**, pp. 9-11.
- 2011 P 2102** COSTA M., SORGE U., ALFUSO S. (2011) *Optimal injection strategies for low consumption of a GDI engine*. Proceedings 24th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems – ECOS 2011, Novi Sad (Serbia) 2011, pp. 362-373.
- 2011 P 2103** COSTA M., SIANO D., BOZZA F. (2011) *Optimal selection of the combustion mode in a turbo-charged diesel engine for reduced fuel consumption, noxious emissions and radiated noise*. Proceedings 24th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems – ECOS 2011, Novi Sad (Serbia) 2011, pp. 545-558.
- 2011 P 2104** VALIULIN S.V., KARASEV V.V., KOMAROVSKIKH A.Y., ONISCHUK A.A., VOSEL S.V., DI STASIO S. (2011) *The formation of sulfur nanoparticles from a supersaturated vapor*. Proceedings 42nd International Annual Conference of the Fraunhofer ICT: Energetic Materials, Karlsruhe (Germany) 2011, Paper V29.
- 2011 P 2107** SIANO D., GIACOBBE S. (2011) *Radiated engine noise prediction using multi-body simulation*. Proceedings 8th International Conference on Structural Dynamics – EURODYN 2011, Leuven (Belgium) 2011, pp. 3110-3117 (ISBN 978-90-760-1931-4).
- 2011 P 2108** MEROLA S., S., MARCHITTO L., ESPOSITO CORCIONE F., VALENTINO G., TORNATORE C. (2011) *Optical diagnostics of the pollutant formation in a CI engine operating with Diesel fuel blends*. Proceedings SAE Conference on Highlighting the Latest Powertrain, Vehicle and Infomobility Technologies, Torino 2011, SAE Technical Paper 2011-37-0003.
- 2011 P 2109** TORNATORE C., MARCHITTO L., VALENTINO G., ESPOSITO CORCIONE F., MEROLA S.S. (2011) *Optical diagnostics of the combustion process in a PFI SI boosted engine fuelled with butanol-gasoline blend*. Proceedings 24th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems – ECOS 2011, Novi Sad (Serbia) 2011, pp. 1595-1607.
- 2011 P 2110** GUIDA M., PULCINI G. (2011) A continuous-state Markov model for age- and state-dependent degradation processes. *Structural Safety*, **33** (6), pp. 354–366.
- 2011 P 2113** PRATI M.V., ZAMBONI G., COSTAGLIOLA M.A., MECCARIELLO G., CARRARO C., CAPOBIANCO M. (2011) *Influence of driving cycles on Euro 3 scooter emissions and fuel consumption*. Energy Conservation and Management, **52** (11), pp. 3327-3336.
- 2011 P 2114** BUONO D., SENATORE A., PRATI M.V., MANGANELLI M., CARUSO A. (2011) *Simulazione monodimensionale del sistema di raffreddamento di un motore motociclistico*. Proceedings 66° Congresso Nazionale ATI, Rende (Cosenza) 2011, Paper 10.184.
- 2011 P 2115** DI STASIO S., ONISCHUK A.A., BAKLANOV A.M., KARASEV V.V. (2011) *Experimental study on transition from bismuth saturated vapors to liquid nuclei*. Proceedings European Aerosol Conference – EAC2011, Manchester (UK) 2011, Paper n. 60.
- 2011 P 2116** DI STASIO S., MITCHELL J.B.A., LE GARREC J.L. (2011) *Effect of alkali metal salt addition on hierarchic assembly of flame aerosol nanoparticles detected by synchrotron small-angle X-ray scattering*. Proceedings European Aerosol Conference – EAC2011, Manchester (UK) 2011, Paper n. 61.
- 2011 P 2117** ONISCHUK A.A., BAKLANOV A.M., BOROVKOVA O.V., KARASEV V.V., DI STASIO S., VOLSSEL S.V. (2011) *Formation of metal nanoparticles from supersaturated vapor (Zn, Bi)*. Proceedings European Aerosol Conference – EAC2011, Manchester (UK) 2011, Paper n. 151.
- 2011 P 2118** VALIULIN S.V., KARASEV V.V., ONISCHUK A.A., VOSEL S.V., BAKLANOV A.M., DI STASIO S., KOMAROVSKIKH A.Y. (2011) *Sulfur vapor homogeneous nucleation from a supersaturated vapor in a flow chamber*. Proceedings European Aerosol Conference – EAC2011, Manchester (UK) 2011, Paper n. 458.
- 2011 P 2119** BAKLANOV A.M., VALIULIN S.V., ONISCHUK A.A., KARASEV V.V., KOMAROVSKIKH A.Y., VOSEL S.V., DI STASIO S. (2011) *Method for measurement of diameter of critical nucleus in vapor-to-liquid nucleation*. Proceedings European Aerosol Conference – EAC2011, Manchester (UK) 2011, Paper n. 781.
- 2011 P 2122** COSTA M., ALLOCCA L., MONTANARO A., SORGE U. (2011) *Reduction of fuel consumption of a GDI engine by split injections*. Proceedings 24th European Conference Liquid Atomization and Spray System, Estoril (Portugal) 2011, Paper 1157.
- 2011 P 2123** ALLOCCA L., MONTANARO A. (2011) *Characterization of RME, RME aged and mineral Diesel fuel injected by a common rail apparatus for EURO5 Diesel engines*. Proceedings 2011 JSAE/SAE International Powertrains, Fuels and Lubricants Meeting, Kyoto (Japan) 2011, SAE Technical Paper 2011-01-1938.
- 2011 P 2124** ALLOCCA L., COSTA M., MONTANARO A., SORGE U. (2011) *Study of the portability of a 3D CFD model for the dynamics of sprays issuing from multi-hole GDI injectors*. Proceedings 2011 JSAE/SAE International Powertrains, Fuels and Lubricants Meeting, Kyoto (Japan) 2011, SAE Paper 2011-01-1897.
- 2011 P 2125** DELLA RAGIONE L., MECCARIELLO G. (2011) *An integrated framework of real and micro simulated driving cycles to evaluate a new emissions factors model*. Proceedings 2011 JSAE/SAE International Powertrains, Fuels and Lubricants Meeting, Kyoto (Japan) 2011, SAE Paper 2011-01-2063.
- 2011 P 2126** SIANO D., GIACOBBE S. (2011) *Previsione del rumore emesso da un prototipo di motore multicilindrico mediante*

- simulazione multi-body*. Proceedings 66° Congresso Nazionale ATI, Rende (Cosenza) 2011, Paper 10.193.
- 2011 P 2127** DI GAETA A., FIENGO G., PALLADINO A., GIGLIO V. (2011) *Design and experimental validation of a model-based injection pressure controller in a common rail system for GDI engine*. Proceedings of the American Control Conference, 2011, pp. 5273-5278.
- 2011 P 2128** DI BERNARDO M., DI GAETA A., HOYOS VELASCO C.I., SANTINI S. (2011) *Experimental nonlinear dynamics of a closed loop electro-mechanical valve actuator (EMVA)*. Proceedings 7th European Nonlinear Dynamics Conference – ENOC 2011, Rome (Italy) 2011 (ISBN 978-88-906234-2-4).
- 2011 P 2129** DI BERNARDO M., DI GAETA A., MONTANARO U., OLM J.M., SANTINI S. (2011) *Discrete-time MRAC with minimal controller synthesis of an electronic throttle body*. Proceedings 18th IFAC World Congress – IFAC 2011, Milan (Italy) 2011, pp. 5064-5069 (ISBN 978-3-902661-93-7).
- 2011 P 2130** MONTANARO U., DI GAETA A., GIGLIO V. (2011) *An MRAC approach for tracking and ripple attenuation of the common rail pressure for GDI engines*. Proceedings 18th IFAC World Congress – IFAC 2011, Milan (Italy) 2011, pp. 4173-4180 (ISBN 978-3-902661-93-7).
- 2011 P 2131** SIANO D., BOZZA F., COSTA M. (2011) *Reducing fuel consumption, noxious emissions and radiated noise by selection of the optimal control strategy of a Diesel engine*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0019.
- 2011 P 2132** BRIANI M., FRAIOLI V., MIGLIACCIO M.NA, DI BLASIO G., LUCCHINI T., ETTORRE D. (2011) *Multi-dimensional modeling of combustion in compression ignition engines operative with variable charge premixing levels*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0027.
- 2011 P 2133** MALAGUTI S., FONTANESI S., VAGLIECO B.M., SEMENTA P., CATAPANO F. (2011) *Experimental and numerical investigation of the idle operating engine condition for a GDI engine*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0031.
- 2011 P 2134** GIGLIO V., POLICE G., RISPOLI N., IORIO B., DI GAETA A. (2011) *Experimental evaluation of reduced kinetic models for the simulation of knock in SI engines*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0033.
- 2011 P 2135** MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2011) *IR imaging of premixed combustion in a transparent Euro5 Diesel engine*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0043.
- 2011 P 2136** ESPOSITO CORCIONE F., VALENTINO G., TORNATORE C., MEROLA S., MARCHITTO L. (2011) *Optical investigation of premixed low-temperature combustion of lighter fuel blends in compression ignition engines*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0045.
- 2011 P 2137** CATAPANO F., SEMENTA P., VAGLIECO B.M. (2011) *Design for an optically accessible multicylinder high performance GDI engine*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0046.
- 2011 P 2138** VALENTINO G., ESPOSITO CORCIONE F., IANNUZZI S., SERRA S. (2011) *Effects of premixed low temperature combustion of fuel blends with high resistance to auto-ignition on performances and emissions in a high speed Diesel engine*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0049.
- 2011 P 2139** DIJKSTRA R., DI BLASIO G., BOOT M., BEATRICE C., BERTOLI C. (2011) *Assessment of the effect of low cetane number fuels on a light duty CI engine: preliminary experimental characterization in PCCI operating condition*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0053.
- 2011 P 2140** MOCCIA V., D'ALESSIO J. (2011) *Evaluating the burning velocity of gaseous fuels for engine applications: the DHARMA project*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0056.
- 2011 P 2141** MEROLA S.S., TORNATORE C., VALENTINO G., MARCHITTO L., ESPOSITO CORCIONE F. (2011) *Optical investigation of the effect on the combustion process of butanol-gasoline blend in a PFI SI boosted engine*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0057.
- 2011 P 2142** MANCARUSO E., VAGLIECO B.M. (2011) *UV-visible spectroscopic measurements of dual-fuel PCCI engine*. SAE International Journal of Fuels and Lubricants, 4 (2), pp. 271-281, SAE Paper 2011-24-0061.
- 2011 P 2143** CAPALDI P. (2011) *A compact 10 kW electric power range extender suitable for plug-in and series hybrid vehicles*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0085.
- 2011 P 2144** KARAGIANNAKIS G., MANDILAS H., KONSTANDOPOULOS A., BEATRICE C., LAZZARO M., RISPOLI N., PASTOR J.V., ROS E., MOLINA S. (2011) *Determination of oxidation characteristics and studies on the feasibility of metallic nanoparticles combustion under ICE-like conditions*. SAE International Journal of Fuels and Lubricants, 4 (2), pp. 282-297, SAE Paper 2011-24-0105.
- 2011 P 2145** CAPALDI P. (2011) *A 1,5 KW electric power micro-cogeneration unit suitable for domestic applications*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0108.
- 2011 P 2146** DE SIMIO L., GAMBINO M., IANNACCONE S. (2011) *Effect of natural gas/hydrogen blends on spark ignition stoichiometric engine efficiency*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0121.
- 2011 P 2147** BIZON K., CONTINILLO G., MANCARUSO E., VAGLIECO B.M. (2011) *Reconstruction of in-cylinder pressure in a Diesel engine from vibration signal using a RBF neural network*

- model*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0161.
- 2011 P 2148** TAGLIATELA-SCAFATI F., LAVORGNA M., MANCARUSO E. (2011) *Use of vibration signal for diagnosis and control of a four-cylinder Diesel engine*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0169.
- 2011 P 2149** IODICE P., PRATI M.V., SENATORE A. (2011) *A calculation procedure for the evaluation of cold emissive behavior of high-performance motorcycles*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0200.
- 2011 P 2150** ARSIE I., DI IORIO S., VACCARO S. (2011) *Experimental characterization of nanoparticles emissions in a port fuel injection spark ignition engine*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0208.
- 2011 P 2151** DI IORIO S., BEATRICE C., GUIDO C., DEL GIACOMO N., NAPOLITANO P., VASSALLO A. (2011) *Analysis of particle mass and size emissions from a catalyzed Diesel particulate filter during regeneration by means of actual injection strategies in light duty engines*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0210.
- 2011 P 2152** DI IORIO S., LAZZARO M., SEMENTA P., VAGLIECO B.M., CATAPANO F. (2011) *Particle size distributions from a DI high performance SI engine fuelled with gasoline-ethanol blended fuels*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0211.
- 2011 P 2153** PRATI M.V., MARIANI A., TORBATI R., UNICH A., COSTAGLIOLA M.A., MORRONE B. (2011) *Emissions and combustion behavior of a bi-fuel gasoline and natural gas spark ignition engine*. SAE International Journal of Fuels and Lubricants, **4** (2), pp. 328-338, SAE Paper 2011-24-0212.
- 2011 P 2154** DELLA RAGIONE L., MECCARIELLO G. (2011) *Some comparisons between real and KEM predicted emission values on a EURO 4 Panda Bi-fuel vehicles*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0213.
- 2011 P 2155** SIANO D., GIACOBBE S., BOZZA F. (2011) *Noise prediction of a multi-cylinder engine prototype using multi-body dynamic simulation*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0216.
- 2011 P 2156** SIANO D., AURIEMMA F., BOZZA F., RAMMAL H. (2011) *Validation of 1D and 3D analyses for performance prediction of an automotive silencer*. Proceedings 10th International Conference on Engines & Vehicles – ICE 2011, Napoli (Italy) 2011, SAE Technical Paper 2011-24-0217.
- 2011 P 2158** OSSLER F., VALLENHAG L., CANTON S.E., MITCHELL J.B.A., LE GARREC J.L., DI STASIO S., SZTUCKI M. (2011) *In-situ study of the dynamics of nanoparticle and phase transitions in ethylene flames by measurements of combined extended small-angle X-ray scattering*. Abstracts Annual World Conference Carbon 2011, Shanghai (China) 2011, Abstract n. 911.
- 2011 P 2159** ALLOCCA L., BONAVALONTÀ C., GAMBARDILLA U., MORONE A., VALENTINO M. (2011) *Growth of magnetic nanostructures by laser ablation deposition*. Proceedings Nanotech Conference & Expo 2011, Boston (USA) 2011, Vol. 1, pp. 89-91 (ISBN 978-1-4398-7142-3).
- 2011 P 2162** ALLOCCA L., DABAGOV S.B., MARCHITTO L. (2011) *X-ray refraction 3D-simulation software: First approach*. Il Nuovo Cimento, **34 C** (4), pp. 553-559.
- 2011 P2165** TORNATORE C., MARCHITTO L., MAZZEI A., VALENTINO G., ESPOSITO CORCIONE F., MEROLA S.S. (2011) *Effect of butanol blend on in-cylinder combustion process. Part 1: spark ignition engine*. Journal of KONES Powertrain and Transport, **18** (2), pp. 427-438.
- 2011 P2166** TORNATORE C., MARCHITTO L., MAZZEI A., VALENTINO G., ESPOSITO CORCIONE F., MEROLA S.S. (2011) *Effect of butanol blend on in-cylinder combustion process. Part 2: compression ignition engine*. Journal of KONES Powertrain and Transport, **18** (3), pp. 473-483.
- 2011 P 2167** PRATI M.V., COSTAGLIOLA M.A., TORBATI R., UNICH A., MARIANI A., MORRONE B., GERINI A. (2011) *Combustion analysis of a spark ignition engine fuelled by natural gas-hydrogen blends*. Proceedings 4th World Hydrogen Technologies Convention – WHTC 2011, Glasgow (Scotland, UK) 2011, Paper 0065.
- 2011 P 2168** COSTA M., ALLOCCA L. (2011) *Numerical modelling and optimization of the mixture formation process by multi-hole injectors in a GDI engine*. Chapter 9 of the book “Computational Simulations and Applications” (J. Zhu, Ed), InTech (Rijeka, Croatia), pp. 177-208 (ISBN 978-953-307-430-6).
- 2011 P 2172** DI IORIO S., SEMENTA P., VAGLIECO B.M. (2011) *Optical characterization of methane combustion in a four stroke engine for two wheel application*. Proceedings XXXIV Meeting of the Italian Section of The Combustion Institute, Roma (Italy) 2011, Paper I.11.
- 2011 P 2173** ALFÈ M., GUIDO C., DI IORIO S., BEATRICE C., FRAIOLI V., LAZZARO M. (2011) *An off-line approach for the evaluation of particle size distribution emitted from a modern Diesel engine*. Proceedings XXXIV Meeting of the Italian Section of The Combustion Institute, Roma (Italy) 2011, Paper I.7.
- 2011 P 2174** MANCARUSO E., VAGLIECO B.M. (2011) *Ethanol and Diesel fuel in Euro5 single cylinder research engine*. Proceedings XXXIV Meeting of the Italian Section of The Combustion Institute, Roma (Italy) 2011, Paper I.8.
- 2011 P 2175** MOCCIA V., D’ALESSIO J. (2011) *Laminar burning properties of lean CH₄-H₂-air mixtures at high pressure*. Proceedings XXXIV Meeting of the Italian Section of The Combustion Institute, Roma (Italy) 2011, Paper II.15.
- 2011 P 2176** ALLOCCA L., MONTANARO A., LUCCHINI T., BRUSIANI F. (2011) *Experimental and numerical characterization of high-pressure sprays for GDI engines*. Proceedings DIPSI Workshop 2011 on Droplet Impact Phenomena & Spray Investigation, Bergamo (Italy) 2011 (ISBN: 978-88-97413-03-5).
- 2011 P 2179** BEATRICE C., DI IORIO S., GUIDO C., NAPOLITANO P. (2011) *The key role of the electronic control technology in the exploitation of the alternative renewable fuels for future green, efficient and clean Diesel engines*. Chapter 15 of the book “Biodiesel: Quality, Emissions and By-Products” (G.

- Montero, M. Stoytcheva, Eds), InTech (Rijeka, Croatia), pp. 235-254 (ISBN 978-953-307-784-0).
- 2011 P 2180** FRAIOLI V., BEATRICE C., LAZZARO M. (2011) *Soot particle size modelling in 3D simulations of diesel engine combustion*. Combustion Theory and Modelling, **15** (6), pp. 863-892.
- 2011 P 2181** DI GAETA A., MONTANARO U., GIGLIO V. (2011) *Model-based control of the air fuel ratio for gasoline direct injection engines via advanced co-simulation: an approach to reduce the development cycle of engine control systems*. Journal of Dynamic Systems, Measurement, and Control, **133** (6), Paper 061006 (17 pages).
- 2011 P 2182** VALENTINO G., ALLOCCA L., IANNUZZI S., MONTANARO A. (2011) *Biodiesel/mineral Diesel fuel mixtures: spray evolution and engine performance and emissions characterization*. Energy, **36** (6), pp. 3924-3932.
- 2011 P 2183** BEATRICE C., GUIDO C., NAPOLITANO P., AVOILIO G., VASSALLO A. (2011) *Experimental analysis of nozzle flow number impact on partial and full load performance of a Euro5 automotive diesel engine*. In "Internal Combustion Engines: Improving Performance, Fuel Economy and Emissions", Woodhead Publishing Limited, London (UK) 2011, pp. 87-97 (ISBN 978-0-85709-205-2).
- 2011 P 2185** IANNONE R.Q., MORLACCHI R., CALABRIA R., MASSOLI P. (2011) *Investigation of unburned carbon particles in fly ash by means of laser light scattering*. Applied Physics B: Lasers and Optics, **102** (2), pp. 357-365.
- 2011 P 2189** DI BERNARDO M., MONTANARO U., SANTINI S. (2010) *Canonical forms of generic piecewise linear continuous systems*. IEEE Transactions on Automatic Control, **56** (8), pp. 1911-1915.
- 2011 P 2190** VENERI O., MIGLIARDINI F., CAPASSO C., CORBO P. (2011) *Comparison between lithium-ion and lead acid batteries as energy storage systems in hydrogen fuel cell vehicles*. Proceedings 4th World Hydrogen Technologies Convention – WHTC 2011, Glasgow (Scotland, UK) 2011, Paper 0113.
- 2011 P 2191** MIGLIARDINI F., UNICH A., VENERI O., CAPASSO C., CORBO P. (2011) *Air management optimization in hydrogen fuel cell systems for automotive applications*. Proceedings 4th World Hydrogen Technologies Convention – WHTC 2011, Glasgow (Scotland, UK) 2011, Paper 0118.
- 2011 P 2192** VENERI O., MIGLIARDINI F., CAPASSO C., CORBO P. (2011) *Dynamic behaviour of Li batteries in hydrogen fuel cell power trains*. Journal of Power Sources, **196** (21), pp. 9081-9086.
- 2011 P 2193** RAUCH B., LE CLERCQ P., AIGNER M., RACHNER M., CALABRIA R., MASSOLI P. (2011) *Jet A-1 fuel spray evaporation in a turbulent flow: experimental investigations and validation of numerical models*. Proceedings 49th AIAA Aerospace Sciences Meeting, Orlando (USA) 2011, Vol. 12, Paper AIAA 2011-790, pp. 10597-10609 (ISBN: 978-1-61782-948-2).
- 2011 P 2194** MURA E., JOSSET C., LOUBAR K., BELLETTRE J., MASSOLI P. (2011) *Experimental study of the water vaporization temperature for water in oil emulsions by differential scanning calorimetry analysis*. Proceedings Third International Conference on Applied Energy, Perugia (Italy) 2011, pp. 2941-2950.
- 2011 P 2195** MURA E., MASSOLI P., JOSSET C., LOUBAR K., BELLETTRE J. (2011) *Study of the micro-explosion temperature of water in oil emulsion droplets during the Leidenfrost effect*. Proceedings 7th Mediterranean Combustion Symposium – MCS-7, Chia Laguna (Cagliari) 2011.
- 2011 P 2197** MITCHELL J.B.A., LE GARREC J.L., DI STASIO S. (2011) *X-Ray studies of combustion generated nanostructures*. Proceedings of the Fifth Saudi Physical Society Conference – SPSS, AIP Conference Proceedings, Vol. 1370, pp. 47-53.
- 2011 P 2198** MIGLIARDINI F., VENERI O., CORBO P. (2011) *Hydrogen and proton exchange membrane fuel cells for clean road transportation*. Journal of Industrial and Engineering Chemistry, **17** (3), pp. 633-641.
- 2011 P 2199** CORBO P., MIGLIARDINI F., VENERI O. (2011) *Hydrogen Fuel Cells for Road Vehicles*. Springer (London, UK), 245 pp. (ISBN 978-0-85729-135-6).
- 2011 P 2201** MIGLIACCIO M.N.A., ETTORRE D., APROVITOLA A., ALFUSO S. (2011) *Effects of turbulence modulation addition in Open-FOAM® toolkit on high pressure fuel sprays*. Proceedings SAE 2011 World Congress & Exhibition, Detroit (USA) 2011, SAE Technical Paper 2011-01-0820..
- 2011 P 2215** CADORIN M., PINELLI M., VACCARI A., CALABRIA R., CHIARIELLO F., MASSOLI P. (2011) *Analysis of a microgasturbine fed by natural gas and synthesis gas: MGT test bench and combustor CFD analysis*. Proceedings ASME Turbo Expo 2011 Conference, Vancouver (Canada) 2011, Paper GT2011-46090.
- 2011 P 2217** CIARAVINO C., VASSALLO A., BEATRICE C., GUIDO C. (2011) *The key role of the close-loop combustion control for exploiting the potential of biodiesel in a modern diesel engine for passenger car applications*. SAE International Journal of Engines 4 (2), pp. 2576-2589, SAE Technical Paper 2011-37-0005.
- 2011 P 2283** CAMERETTI M.C., TUCCILLO R., M., REALE F., PIAZZESI R.. (2011) *Liquid bio-fuels in an EGR equipped micro gas turbine*. Proceedings ASME Turbo Expo 2011 Conference, Vancouver (Canada) 2011, Paper GT2011-46341.
- 2011 P 2778** MEROLA S.S., MARCHITTO L., CORCIONE F., VALENTINO G., TORNATORE C. (2011) *Optical diagnostic of the pollutant formation in a CI engine operating with diesel fuel blends* - SAE International Journal of Engines 4 (2), pp. 2543-2558, SAE Technical Paper 2011-37-0003.

2012

- 2012 P 2112** GUIDA M., PULCINI G. (2012) *The Inverse Gamma process for modeling state-dependent deterioration processes*. In "Advances in Safety, Reliability and Risk Management" (C. Bérenguer, A. Grall & C. Guedes Soares, Eds), Taylor & Francis (London) 2012, pp. 1128-1135 (ISBN 978-0-415-68379-1).
- 2012 P 2120** BUONO D., SENATORE A., PRATI M.V. (2012) *Particulate filter behaviour of a Diesel engine fueled with biodiesel*. Applied Thermal Engineering, **49**, pp. 147-153.

- 2012 P 2161** IODICE P., PRATI M.V., SENATORE A. (2012) *Emissive behaviour of two-wheeler vehicle category. Methodologies and results*. In "Urban Environment. Proceedings of the 10th Urban Environment Symposium" (Sébastien Rauch & Gregory M. Morrison, Eds), Springer Science 2012, pp. 181-190 (ISBN: 978-94-007-2539-3).
- 2012 P 2170** MAZZARELLA G., ESPOSITO V., BIANCO A., FERRARACCIO F., PRATI M.V., LUCARIELLO A., MANENTE L., MEZZOGIORNO A., DE LUCA A. (2012) *Inflammatory effects on human lung epithelial cells after exposure to diesel exhaust micron sub particles (PM_{1.0}) and pollen allergens*. Environmental Pollution, **161**, pp. 64-69.
- 2012 P 2171** MANCARUSO E., VAGLIECO B.M. (2012) *Premixed combustion of GTL and RME fuels in a single cylinder research engine*. Applied Energy, **91** (1), pp. 385-394.
- 2012 P 2186** DI IORIO S., MANCARUSO E., VAGLIECO B.M. (2012) *Characterization of soot particles produced in a transparent research CR DI Diesel engine pperating with conventional and advanced combustion strategies*. Aerosol Science and Technology, **46** (3), pp. 272-286.
- 2012 P 2188** VALENTINO G., ESPOSITO CORCIONE F., IANNUZZI S.E., SERRA S. (2012) *Experimental study on performance and emissions of a high speed diesel engine fuelled with n-butanol diesel blends under premixed low temperature combustion*. Fuel, **92** (1), pp. 295-307.
- 2012 P 2196** RAUCH B., CALABRIA R., CHIARIELLO F., LE CLERCQ P., MASSOLI P., RACHNER M. (2012) *Accurate analysis of multicomponent fuel spray evaporatiAUCHON in turbulent flow*. Experiments in Fluids, **52** (2), pp 935-948.
- 2012 P 2200** GUIDA M., POSTIGLIONE F., PULCINI G. (2012) *A time-discrete extended gamma process for time-dependent degradation phenomena*. Reliability Engineering and System Safety, **105**, pp.73-79.
- 2012 P 2204** SGRO L.A., SEMENTA P., VAGLIECO B.M., RUSCIANO G., D'ANNA A., MINUTOLO P. (2012) *Investigating the origin of nuclei particles in GDI engine exhausts*. Combustion and Flame, **159** (4), pp. 1687-1692.
- 2012 P 2205** SIANO D. (2012) *Noice Control, Reduction and Cancellation Solutions in Engineering*. InTech (Rijeka, Croatia), 298 pp. (ISBN 978-953-307-918-9).
- 2012 P 2206** SEMENTA P., VAGLIECO B.M., CATAPANO F. (2012) *Thermodynamic and optical characterizations of a high performance GDI engine operating in homogeneous and stratified charge mixture conditions fueled with gasoline and bio-ethanol*. Fuel, **96**, pp. 204-219.
- 2012 P 2207** BEATRICE C., DI IORIO S., GUIDO C., NAPOLITANO P. (2012) *Detailed characterization of particulate emissions of an automotive catalyzed DPF using actual regeneration strategies*. Experimental Thermal and Fluid Science, **39**, pp. 45-53.
- 2012 P 2208** D'ERRICO G., LUCCHINI T., MEROLA S., TORNATORE C. (2012) *Application of a thermodynamic model with a complex chemistry to a cycle resolved knock prediction on a spark ignition optical engine*. International Journal of Automotive Technology, **13** (3), pp. 389-399.
- 2012 P 2209** ALLOCCA L., VAGLIECO B.M., MONTANARO A., MANCARUSO E., CIAVARINO C., AVOLIO G. (2012) *Investigation of diesel injector nozzle flow number impact on spray formation and combustion evolution by optical diagnostics*. **Proceedings SAE 2012 World Congress & Exhibition, Detroit, MI (USA) 2012**, SAE Technical Paper 2012-01-0701.
- 2012 P 2210** MONTANARO A., MALAGUTI S., ALFUSO S. (2012) *Wall impingement process of a multi-hole GDI spray: experimental investigation*. Proceedings SAE 2012 World Congress & Exhibition, Detroit, MI (USA), SAE Technical paper 2012-01-1266.
- 2012 P 2211** MANCARUSO E., VAGLIECO B.M. (2012) *UV – Visible imaging of PCCI engine running with ethanol/diesel fuel*. Proceedings SAE 2012 World Congress & Exhibition, Detroit, MI (USA), SAE Technical Paper 2012-01-1238.
- 2012 P 2212** COSTA M., SORGE U., ALLOCCA L. (2012) *Increasing energy efficiency of a gasoline direct injection engine through optimal synchronization of single or double injection strategies*. Energy conversion and Management, **60** pp.77-86.
- 2012 P 2213** SEGGIANI M., PRATI M.V., COSTAGLIOLA M.A., PUCCINI M., VITOLO S. (2012) *Bioethanol-gasoline fuel blends: Exhaust emissions and morphological characterization of particulate from moped engine*. Journal of the Air & Waste Management Associations **62**(8), pp 888-897.
- 2012 P 2214** DI GAETA A., MONTANARO U., FIENGO G., PAL-LADINO A., GIGLIO V. (2012) *A model-based gain scheduling approach for controlling the common-rail system for GDI engines*. International Journal of Control, **85** (4), pp.419-436.
- 2012 P 2216** BEATRICE C., GUIDO C., NAPOLITANO P. (2012) *Implementazion of the closed-loop combustion control methodology in modern automotive diesel engines for low-end torque increment burning biodiesel*. Energy & Fuels, **26**, pp.1305-1314.
- 2012 P 2218** COSTA M., SORGE U., ALLOCCA L. (2012) *CFD optimization for GDI spray model tuning and enhancement of engine performance*. Advanced in Engineering Software, **49** pp 43-53.
- 2012 P 2219** DI IORIO S., BEATRICE C., GUIDO C., NAPOLITANO P., VASSALLO A., CIARAVINO C. (2012) *Impact of biodiesel on particle emissions and DPF regeneration management in a Euro5 automotive diesel engine*. Proceedings SAE 2012 World Congress & Exhibition, Detroit, MI (USA) SAE Technical Paper 2012-01-039.
- 2012 P 2220** PELLEGRINI L., MARCHIONNA M., PATRINI R., BEATRICE C., DEL GIACOMO N., GUIDO C. (2012) *Combustion behaviour and emission performance of neat and blended polyoxymethylene dimethyl ethers in a light-duty diesel engine*. Proceedings SAE 2012 World Congress & Exhibition, Detroit, MI (USA) SAE Technical Paper 2012-01-1053.
- 2012 P 2221** DI BLASIO G., BEATRICE C., DIJKSTRA R., BOOT M. (2012) *Low cetane number renewable oxy-fuels for premixed combustion concept application: experimental investigation on a light duty diesel engine*. Proceedings SAE 2012 World Congress & Exhibition, Detroit, MI (USA) SAE Technical Paper 2012-01-1310.
- 2012 P 2222** BEATRICE C., GUIDO C., FRAIOLI V., MIGLIACCIO M. (2012) *Experimental and numerical analysis of nozzle flow number impact on full load performance of an Euro5 automotive diesel engine*. Proceedings SAE 2012 World Congress

- & Exhibition, Detroit, MI (USA) SAE Technical Paper 2012-01-0679.
- 2012 P 2223** GUIDO C., BEATRICE C., DI IORIO S., NAPOLITANO P., AVOLIO G., CIARAVINO C. (2012) Analysis of diesel injector nozzle flow number impact on emissions and performance of a Euro5 automotive diesel engine. Proceedings SAE 2012 World Congress & Exhibition, Detroit, MI (USA) SAE Technical Paper 2012-01-0891.
- 2012 P 2224** MANCARUSO E., VAGLIECO B.M., ALLOCCA L., MONTANARO A., ARNONE L. (2012) Experimental study of injection and combustion in a diesel engine for heavy quadricycle use. *Proceedings of the ASME 2012 Internal Combustion Engine Division Spring Technical Conference ICES 2012. Torino (Italy) 2012*. Paper 2012-81026.
- 2012 P 2225** MANCARUSO E., VAGLIECO B.M. (2012) Influence of chemical and physical properties of n-heptane and RME on combustion process in a compression ignition engine. *11th Conference on Combustion and Energy Utilization (ICCEU), Coimbra (Portugal) 2012*. Paper M1809.
- 2012 P 2226** VALENTINO G., CORCIONE E.F., IANNUZZI S., SERRA S. (2012) An experimental analysis on diesel/n-butanol blends operating in partial premixed combustion in a light duty diesel engine. Proceedings SAE 2012 World Congress & Exhibition, Detroit, MI (USA) SAE Technical Paper 2012-01-1127.
- 2012 P 2227** MALAGUTI S., D'ADAMO G., CANTORE G., SEMENTA P., VAGLIECO B.M., CATAPANO F. (2012) Experimental and numerical investigation of the idle operating engine condition for a GDI engine. Proceedings SAE 2012 World Congress & Exhibition, Detroit, MI (USA) SAE Technical Paper 2012-01-1144.
- 2012 P 2228** SEMENTA P., CATAPANO F., VAGLIECO B.M., DI IORIO S. (2012) Optical characterization of methane combustion in a four stroke engine for two wheel application. Proceedings SAE 2012 World Congress & Exhibition, Detroit, MI (USA) SAE Technical Paper 2012-01-1150.
- 2012 P 2229** CHA I.H., GUIDA M., PULCINI G. (2012) A competing risks with model with degradation phenomena and catastrophic failures. *4th International Conference on Accelerated Life Testing and Degradation Models. Rennes (France) 2012*.
- 2012 P 2230** ONISCHUK A.A., VOSEL S.V., BOROVKOVA O.V., BAKLANOV, A.M., KARASEV V.V., di STASIO S. (2012) Experimental study of homogeneous nucleation from the bismuth supersaturated vapour: evaluation of the surface tension of critical nucleus. *The Journal of chemical physics* **136**, 224506 (2012)
- 2012 P 2231** MANCARUSO E., VAGLIECO B.M. (2012) PCCI combustion with RME and bio-ethanol in a transparent Euro5 diesel engine. *International Conference and Exhibition "Diesel Powertrain" Innovative Technologies for Future Emissions Targets. INSA Roune (France) 2012*.
- 2012 P 2232** BEATRICE C., GUIDO C., DEL GIACOMO N., DI IORIO S. (2012) Soot particle size and pollutant emissions characterisation from an LD diesel engine equipped with high-pressure and low-pressure EGR system and operating with conventional and PCCI combustion. *International Journal of Vehicle Design*, **59** (1), pp 82-103.
- 2012 P 2233** MEROLA S.S., TORNATORE C., MARCHITTO L., VALENTINO G., CORCIONE E.F. (2012) Experimental investigations of butanol-gasoline blends effects on the combustion process in a SI engine. *International Journal of energy and Environmental Engineering* **2012** 3:6.
- 2012 P 2234** DE SIMIO L., GAMBINO M., IANNACCONE S. (2012) Research into the use of a lean burn and a stoichiometric heavy duty engine fuelled with a blend of hydrogen and natural gas. *WIT Transactions on Ecology and the Environment* **162**, pp 289-300.
- 2012 P 2235** DE SIMIO L., GAMBINO M., IANNACCONE S. (2012) Feasibility of a Dual-Fuel Engine Fuelled with Waste Vegetable Oil and Municipal Organic Fraction for Power Generation in Urban Areas. *Journal of Combustion* **2012**, pp.1-8.
- 2012 P 2236** CAPALDI P., DANNIER A., SPINA I. (2012) A simple on-board electric generator for road electric vehicles based on single-cylinder engine and PM-brushless generator. *21st International Symposium on Power Electronics, Electrical Drives Automation and Motion – SPEEDAM 2012. Sorrento (Italy). Paper REV0361*. (ISBN 978-1-4673-1300-1)
- 2012 P 2237** BRANDO C., CAPALDI P., RIZZO R. (2012) Design and experimental testing of a low-cost high-efficiency micro cogeneration unit for distributed energy conversion. *21st International Symposium on Power Electronics, electrical Drives Automation and Motion – SPEEDAM 2012. Sorrento (Italy.) Paper REC0360*. (ISBN 978-1-4673-1300-1)
- 2012 P 2238** CAPALDI P., RIZZO R. (2012) An efficient small-power cogeneration-unit suitable for residential off-grid applications. *21st International Symposium on Power Electronics, electrical Drives Automation and Motion – SPEEDAM 2012. Sorrento (Italy.) Paper REC 0359*. (ISBN 978-1-4673-1300-1)
- 2012 P 2239** CAPALDI P. (2012) A natural gas fuelled 10kW electric power unit based on a diesel automotive internal combustion engine and suitable for cogeneration. *The 25th International Conference on efficiency cost, optimization and simulation of energy conversation systems and processes. ECOS 2012. Perugia (Italy)*.
- 2012 P 2240** MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2012) GTL and RME Combustion Analysis in a Transparent CI Engine by means of IR Digital Imaging. *The 25th International Conference on efficiency cost, optimization and simulation of energy conversation systems and processes. ECOS 2012. Perugia (Italy)*.
- 2012 P 2241** MEROLA S.S., VALENTINO G., TORNATORE C., MARCHITTO L., CORCIONE F.E. (2012) Experimental investigations of the combustion process of n-butanol/diesel blend in an optical high swirl CI engine. *The 25th International Conference on efficiency cost, optimization and simulation of energy conversation systems and processes. ECOS 2012. Perugia (Italy)*.
- 2012 P 2242** MOCCA V., D'ALESSIO J. (2012) Characterization of CH₄-H₂-air mixtures in the high-pressure DHARMA reactor. *The 25th International Conference on efficiency cost, optimi-*

- zation and simulation of energy conversation systems and processes. ECOS 2012. Perugia (Italy).*
- 2012 P 2243 VENERI O., MIGLIARDINI F., CAPASSO C., CORBO P. (2012)** Experimental performance assessment of Pb, Li (Ni-CoMn) O₂ and LiFePO₄ batteries for road vehicles. **21st International Symposium on Power Electronics, electrical Drivers Automation and Motion – SPEEDAM 2012. Sorrento (Italy). Paper REV 0415.** (ISBN 978-1-4673-1300-1).
- 2012 P 2244 BRANDO G., CAPALDI P., DANNIER A., DEL PIZZO A. (2012)** A control technique for shaft-torque smoothing in pm-brushless small power cogeneration units. **11st IASTED European Conference on Power and Energy Systems (Euro PES 2012). Napoli (Italy). Paper 775-079.** (ISBN 978-0-88986-924-0).
- 2012 P 2246 MECCARIELLO G., DELLA RAGIONE L., COSTA-GLIOLA M.A., PRATI M.V. (2012)** Evaluation of emission factors for new technology S.I. Euro 4 Cars. **Journal of Computing and Information Technology – CIT 20 (3) pp. 217-224.** (ISSN 1330-1136).
- 2012 P 2247 GUIDA M., POSTIGLIONE F., PULCINI G. (2012)** A new estimation algorithm for interval censored data from repairable systems. **Proceedings 11st International Probabilistic Safety Assessment and Management Conference and The Annual European Safety and Reliability Conference – PSAM 11 & ESREL 2012. Helsinki (Finland). Paper 02A-Fr2-2.**
- 2012 P 2248 ALLOCCA L., MANCARUSO E., MONTANARO A., VAGLIECO B.M. (2012)** Use of mineral diesel, first-, and second-generation biodiesels in modern common rail injection systems under nonevaporative and evaporative conditions. *Atomization and Sprays*, 22 (2), pp 97-121.
- 2012 P 2249 TORNATORE C., MARCHITTO L., VALENTINO G., CORCIONE E.F., MEROLA S.S. (2012)** Optical diagnostics of the combustion process in a PFI SI boosted engine fueled with butanol-gasoline blend. *Energy*, 45 (1), pp 277-287.
- 2012 P 2250 di BERNARDO M., di GAETA A., HOYOS VELASCO C.I., SANTINI S. (2012)** Energy-based key-on control of a double magnet electromechanical valve actuator. *IEEE Transactions on Control Systems Technology*, 20 (5), pp 1133-1145.
- 2012 P 2251 MANCARUSO E., DI IORIO S., VAGLIECO B.M. (2012)** Effect of biofuels on particle formation and emission from research CR diesel engine. *The Eight International Conference on Modeling and Diagnostics for Advances Engine Systems (COMODIA 2012). Fukuoka (Japan). Paper FL2-3*, pp. 343-349.
- 2012 P 2252 MANCARUSO E., VAGLIECO B.M. (2012)** Effect of injector nozzle flow number on injection evolution in a transparent diesel engine operating with pure RME fuel. **ICLASS 2012, 12th Triennial International Conference on Liquid Atomization and Spray Systems. Heidelberg (Germany). ISBN 978-88-903712-1-9.**
- 2012 P 2253 ALLOCCA L., COSTA M., MONTANARO A., SEMENTA P., SORGE U., VAGLIECO B.M. (2012)** Characterization of the Mixture Formation Process in a GDI engine Operation under Stratified Mode. **ICLASS 2012, 12th Triennial International Conference on Liquid Atomization and Spray Systems. Heidelberg (Germany). ISBN 978-88-903712-1-9.**
- 2012 P 2254 ALLOCCA L., MARCHITTO L., HAMPAL D., DABAGOV S.B. (2012)** Spatial Analysis of Fuel Density from Automotive Transient Sprays by Polycapillary X-Ray Imaging. **ICLASS 2012, 12th Triennial International Conference on Liquid Atomization and Spray Systems. Heidelberg (Germany). ISBN 978-88-903712-1-9.**
- 2012 P 2256 COSTA M., DELL'ISOLA M., MASSAROTTI N. (2012)** Temperature and residence time of the combustion products in a waste-to-energy plant. *Fuel*, 102, pp.92-102
- 2012 P 2257 MONTANARO A., SORGE U., CATAPANO F., VAGLIECO B.M. (2012)** Multidimensional modeling of the in-cylinder processes in GDI engine. **EMSS 2012, 24th European Modeling and Simulation Symposium. Vienna (Austria). ISBN 978-88-97999-01-0 (Paperback). ISBN 978-88-97999-09-6 (PDF).**
- 2012 P 2258 COSTA M., ALLOCCA L., SEMENTA P. (2012)** Optimal control strategies for low fuel consumption in a GDI engine under single and multiple injection. **EMSS 2012, 24th European Modeling and Simulation Symposium. Vienna (Austria). ISBN 978-88-97999-01-0 (Paperback). ISBN 978-88-97999-09-6 (PDF).**
- 2012 P 2259 FRAIOLI V., DI BLASIO G., MANCARUSO E., MIGLIACCIO M., BEATRICE C., GUIDO C., VAGLIECO B.M. (2012)** Experimental and numerical investigations on compression ignition engines using ethanol in dual-fuel configuration **THIESEL 2012, Conference on Thermo-and Fluid Dynamic Processes in direct Injection Engines. Valencia (Spain) ISBN 978-84-8363-913-9.**
- 2012 P 2260 ALLOCCA L., MANCARUSO E., MONTANARO A., VAGLIECO B.M. (2012)** Impact of injector flow number and fuel properties on spray evolution and combustion in a common rail diesel engine. **THIESEL 2012, Conference on Thermo-and Fluid Dynamic Processes in direct Injection Engines. Valencia (Spain) ISBN 978-84-8363-913-9.**
- 2012 P 2261 VALENTINO G., MEROLA S.S., TORNATORE C., IANNUZZI S.E., MARCHITTO L. (2012)** Combustion process investigations in a high speed diesel engine fuelled with n-butanol diesel blend by conventional methods and optical diagnostics. **3rd International Conference on Contemporary Problems of Thermal Engineering (CPOTE 2012). Gliwice (Poland).**
- 2012 P 2262 MEROLA S.S., VALENTINO G., TORNATORE C., MARCHITTO L. (2012)** In-cylinder spectroscopic measurements of knocking combustion in a SI engine fuelled with butanol-gasoline blend. **3rd International Conference on Contemporary Problems of Thermal Engineering (CPOTE 2012). Gliwice (Poland).**
- 2012 P 2263 MEROLA S.S., TORNATORE C., VALENTINO G., MARCHITTO L. (2012)** UV-visible imaging and natural emission spectroscopy of premixed combustion in high swirl multi-jets compression ignition engine fuelled with diesel-gasoline blend. *SAE 2012 International Powertrains, Fuels and Lubricants Meeting. Malmo (Sweden). SAE Technical Paper 2012-01-1723.*
- 2012 P 2264 MEROLA S.S., TORNATORE C., VALENTINO G., MARCHITTO L. (2012)** Optical investigations of alternative fuel combustion in common rail compression ignition engine. *Journal of KONES Powertrain and Transport* 19 (3), pp. 279-288. ISSN 1231-4005.

- 2012 P 2265 AURIEMMA M., IANNUZZI S., SERRA S., VALENTINO G. (2012)** Injection system assessment to optimize performance and emissions of a non-road heavy duty diesel engine: Experiments and CFD Modelling. Journal of KONES Powertrain and Transport 19 (3), pp. 19-30. ISSN 1231-4005.
- 2012 P 2266 MEROLA S.S., TORNATORE C., MARCHITTO L., VALENTINO G. (2012)** In-cylinder OH and CO₂ detection in SI engine through UV natural emission spectroscopy. Journal of KONES Powertrain and Transport 19 (4), pp. 429-437. ISSN 1231-4005.
- 2012 P 2267 DE SIMIO L., GAMBINO M., IANNACCONE S. (2012)** Effect ethanol content on thermal efficiency of a spark-ignition light-duty engine. International Scholarly Research Network IRSN Renewable Energy. Vol 2012, pp.1-8. ISSN 2090-746X(online).
- 2012 P 2268 ABAGNALE C., CAMERETTI M.C., DE SIMIO L., IANNACCONE S., TUCILLO R. (2012)** Experimental and numerical study of a diesel engine operating in dual fuel mode. 67° Congresso Nazionale ATI. Trieste (Italy). ISBN 978-88-907676-0-9.
- 2012 P 2269 DI IORIO S., MANCARUSO E., VAGLIECO B.M. (2012)** Particle size distribution in a transparent CR diesel engine fuelled with RME and GTL by means of multiwavelength spectroscopy. XXXV Meeting of the Italian Section of the Combustion Institute. Milano (Italy). ISBN 978-88-88104-14-0. 1.
- 2012 P 2270 BIZON K., CONTINILLO G., LOMBARDI S., VAGLIECO B.M. (2012)** Analysis of the independent components from images of transient reactive flows. XXXV Meeting of the Italian Section of the Combustion Institute. Milano (Italy). ISBN 978-88-88104-14-0. 1.
- 2012 P 2271 MOCCIA V., D'ALESSIO J. (2012)** On the morphological analysis of CH₄-H₂-air flame instability. XXXV Meeting of the Italian Section of the Combustion Institute. Milano (Italy). ISBN 978-88-88104-14-0. 1.
- 2012 P 2272 REALE F., CALABRIA R., CHIARIELLO F., MASSOLI P., PAGLIARA R. (2012)** Confronto numerico-sperimentale delle prestazioni ed emissioni di una microturbina a gas alimentata con miscele metano/idrogeno. 67° Congresso Nazionale ATI. Trieste (Italy). ISBN 978-88-907676-0-9.
- 2012 P 2273 PAGLIARA R., CALABRIA R., CHIARIELLO F., MASSOLI P., REALE F. (2012)** Impianto per la generazione distribuita multi combustibile basato su microturbina a gas: setup e analisi sperimentale. 67° Congresso Nazionale ATI. Trieste (Italy). ISBN 978-88-907676-0-9.
- 2012 P 2274 REALE F., CALABRIA R., CHIARIELLO F., PAGLIARA R., MASSOLI P. (2012)** A micro gas turbine fuelled by methane-hydrogen blends. Applied Mechanics and Materials. Vol 232, pp.792-796. ISSN 1600-9336.
- 2012 P 2275 REALE F., CALABRIA R., CHIARIELLO F., MASSOLI P., PAGLIARA R., PIAZZESI R. (2012)** Numerical and experimental study of a micro gas turbine combustor. Proceedings of the International Symposium "Turbulence, Heat and Mass Transfer 7"—THMT '12. Palermo (Italy). ISBN 978-1-56700-302-4.
- 2012 P 2276 VENERI O., MIGLIARDINI F., CAPASSO C., CORBO P. (2012)** ZEBRA battery based propulsion system for urban bus applications: preliminary laboratory tests. International Conference on Electrical Systems for Aircraft, Railway and Ship propulsion ESARS 2012. Bologna (Italy). ISBN 978-1-4673-1371-1.
- 2012 P 2277 MIGLIARDINI F., CORBO P. (2012)** Optimization of fuel cell performance in vehicles by electrochemical impedance spectroscopy. International Conference on Electrical Systems for Aircraft, Railway and Ship propulsion ESARS 2012. Bologna (Italy). ISBN 978-1-4673-1371-1.
- 2012 P 2278 VENERI O., MIGLIARDINI F., CAPASSO C., CORBO P. (2012)** Overview of electric propulsion and generation architectures for naval applications. International Conference on Electrical Systems for Aircraft, Railway and Ship propulsion ESARS 2012. Bologna (Italy). ISBN 978-1-4673-1371-1.
- 2012 P 2279 MIGLIARDINI F., VENERI O., CORBO P. (2012)** Management issues of direct hydrogen fuel cell systems for application in automotive field. International Conference on Electrical Systems for Aircraft, Railway and Ship propulsion ESARS 2012. Bologna (Italy). ISBN 978-1-4673-1371-1.
- 2012 P 2280 VENERI O., FERRERO L., CAPASSO C., IANNUZZI D. (2012)** Charging infrastructures for EV: overview of technologies and issues. International Conference on Electrical Systems for Aircraft, Railway and Ship propulsion ESARS 2012. Bologna (Italy). ISBN 978-1-4673-1371-1.
- 2012 P 2281 CITARELLA R., COLANTUONO P., SIANO D. (2012)** Vibration prediction of a multi-cylinder engine using multi-body dynamic simulation. 41° Convegno Nazionale AIAS - Associazione Italiana per l'Analisi delle Sollecitazioni 2012. Padova (Italy). Paper AIAS 2012-099.
- 2012 P 2288 di BERNARDO M., SANTINI S., di GAETA A., HOYOS VELASCO C.I., MONTANARO U. (2012)** Model-based soft landing control of an electromechanical engine valve actuator. ASME 2012 5th Annual Dynamic Systems and Control Conference joint with the JSME 2012 11th Motion and Vibration Conference. Fort Lauderdale, Florida (USA). Paper DSCC2012-MOVIC2012-8526.
- 2012 P 2292 SIANO D. (2012)** Engine Noise Prediction by Using Multi-body Simulation. Journal of Environmental Science and Engineering B 1, pp. 1146-1161.
- 2012 P 2294 BOZZA F., FONTANESI S., GIMINELLI A., SEVERI E., SIANO D. (2012)** Numerical and Experimental Investigation of Fuel Effects on Knock Occurrence and Combustion Noise in a 2-Stroke Engine. SAE 2012 -International Journal of Fuels & Lubricants, vol. 5, Issue 2. (ISSN 0148-7191). SAE Technical Paper 2012-01-0827.
- 2012 P 2298 MURA E., MASSOLI P., JOSSET C., LOUBAR K., BELLETTRE J. (2012)** Study of the micro-explosion temperature of water in oil emulsion droplets during the leidenfrost effect. Experimental Thermal and Fluid Science, 43, pp. 63-70.
- 2012 P 2299 CADORNIN M., PINELLI M., VACCARI A., CALABRIA R., CHIARIELLO F., MASSOLI P., BIANCHI E. (2012)** Analysis of a micro gas turbine fed by natural gas and synthesis gas: MGT test bench and combustor CFD analysis. Journal of Engineering for Gas Turbines and Power -ASME, 143, pp. 071401-1—071401-11.
- 2012 P 2300 BELKADI A., TARLET D., MONTILLET A., BELLETTRE J., MASSOLI P. (2012)** High-speed w/o emulsification within impinging and crossflowing mini-channels. Proceedings of the 3th European Conference on Microfluidics - Microfluidics 2012. Heidelberg (Germany). Paper uFLU12-81.

2012 P 2301 MURA E., JOSSET C., LOUBAR K., BELLETTRE J., MASSOLI P. (2012) Experimental study of the water in oil emulsions features by differential scanning calorimetry analysis. *Applied Energy*, 97, pp. 834-840.

2012 P 2502 ZAMBONI G., CARRARO C., Malfettani S., Capobianco M., Prati M.V., Costagliola M.A., Meccariello G. (2012) Influenza dei cicli di guida sulle emissioni allo scarico ed i consumi di combustibile di motocicli. 67° Congresso Nazionale ATI. Trieste (Italy).

2012 P 2620 KARAGIANNAKIS G., MANDILAS C., KONSTANDOPOULOS A.G., BEATRICE C., LAZZARO M., PASTOR V., MOLINA S., (2014) Metallic nanoparticles as alternative energy carriers & their combustion feasibility under ICE-like conditions .TAP 2012 –19th International Transport and air Pollution Conference – Thessaloniki (Greece).

2013

2013 P 2111 PULCINI G. (2013) Modeling the mileage accumulation process with random effects. *Communications in statistics. Theory and methods*. Vol 42 (15), pp.2661-2683.

2013 P 2245 SIANO D., COSTA M., BOZZA F. (2012) Prediction and enhancement of the acoustic performance of a spark ignition engine intake air filter box. *Proceedings IMEchE Part D: Journal of the Automobile Engineering* 227 (4), pp. 591-604.

2013 P 2284 BEATRICE C., di BLASIO G., CANNILLA C., BONURA G. FRUSTERI F., ASDRUBALI F., BALDINELLI G., PRESCIUTTI A., FANTOZZI F., BIDINI G., BARTOCCI P. (2013) Technologies for energetic exploitation of biodiesel chain derived glycerol: oxy-fuels production by catalytic conversion. *Applied Energy*. Vol 102, pp.63-71.

2013 P 2285 GUIDO C., BEATRICE C., NAPOLITANO P. (2013) Application of bioethanol/RME/diesel blend in a Euro5 automotive diesel engine: potentiality of closed loop combustion technology. *Applied Energy*. Vol 102, pp.13-23.

2013P 2286 FLENGO G., di GAETA A., PALALDINO A., GIGLIO V. (2012) Common Rail System for GDI Engines. *Modeling, Identification and Control*. Springer (London) 2013, pp. 81 (ISBN 978-1-4471-4467-0).

2013 P 2287 di GAETA A., GIGLIO V., POLICE G., RISPOLI N. (2013) Modelling of in-cylinder pressure oscillations under knocking conditions: a general approach based on the damped wave equation. *Fuel*. Vol 104, pp.230-243.

2013 P 2289 SIANO D., BOZZA F., AURIEMMA F. (2013) Acoustic and fluid-dynamic optimization of automotive muffler. *Proceedings IMEchE Part D: Journal of the Automobile Engineering* 227 (5), pp. 735-747.

2013 P 2290 BIZON K., LOMBARDI S., CONTINILLO G., MANCARUSO E., VAGLIECO B.M.(2013) Analysis of Diesel engine combustion using imaging and independent component analysis . *Proceedings of the Combustion Institute* 34, pp. 2921-2931.

2013 P 2291 OSSLER F., VALLENHAG L., CANTON S.E., MITCHELL J.B.A., Le GARREC J.L., SZTUCKI M., di STASIO S. (2013) Dynam-

ics of incipient carbon particle formation in a stabilized ethylene flame by in situ extended-small-angle and wide-angle X-ray scattering . *Carbon*. Vol 51, pp.1-19.

2013 P 2293 MARIANI A., PRATI M.V., UNICH A., MORRONE B. (2013) Combustion analysis of a spark ignition i.c. engine fuelled alternatively with natural gas and hydrogen-natural gas. *International Journal of Hydrogen Energy* 38, pp. 1616-1123.

2013 P 2296 MARCHITTO L., MAZZEI A., MEROLA S.S., TORNATORE C., VALENTINO G. (2013) Optical investigations of combustion process in SI and CI engines fuelled with butanol blends. 9th International Colloquium "Fuels Conventional and Future Energy for Automobiles". Esslingen (Germany) ISBN 978-3-943563-04-7.

2013 P 2297 DE NICOLA F., MURENA F., COSTAGLIOLA M.A., ALFANI A., BALDANTONI D., PRATI M.V., SESSA L., SPAGNUOLO V., GIORDANO S. (2013) A multi-approach monitoring of particulate matter, metals and PAHs in an urban street canyon. *Environmental Science and Pollution Research* 20 (7) pp. 4969-4979.

2013 P 2302 MANCARUSO E., VAGLIECO B.M. (2013) An experimental comparison of n-Heptane, RME and diesel on combustion characteristics in a compression ignition engine. *Fuel Progressing Technology* 107, pp. 44-49.

2013 P 2303 ALLOCCA L., CATAPANO F., MONTANARO A., SEMENTA P., VAGLIECO B.M. (2013) Study of E10 and E85 effect on air fuel mixing and combustion process in optical multicylinder GDI engine and in a spray imaging chamber. *Proceedings SAE 2013 World Congress & Exhibition*. Detroit, MI (USA), SAE Technical Paper 2013-01-0249. (ISSN 0148-7191).

2013 P 2305 DE SIMIO L., GAMBINO M., IANNACCONE S. (2013) Possible transport energy sources for the future. *Transport Policy*. Vol. 27, pp. 1-10.

2013 P 2306 CATAPANO F., SEMENTA P., VAGLIECO B.M. (2013) Optical Characterization of bio-ethanol injection and combustion in a small DISI engine for two wheels vehicles. *Fuel*. Vol. 106, pp. 651-666.

2013 P 2307 CATAPANO F., Di IORIO S., SEMENTA P., VAGLIECO B.M.(2013) Characterization of CH₄ and CH₄/H₂ mixtures combustion in a small displacement optical engine. *SAE International Journal of Fuels & Lubricants*, 6 (1). SAE Technical Paper 2013-01-0852. ISSN 1946-3952.

2013 P 2308 MANCARUSO E., VAGLIECO B.M.(2013) Characterization of PCCI combustion in a single cylinder CI engine fuelled with RME and bio-ethanol. *Proceedings SAE 2013 World Congress & Exhibition*. Detroit, MI(USA), SAE Technical Paper 2013-01-1672. ISSN 0148-7191.

2013 P 2309 MAGNO A., MANCARUSO E., VAGLIECO B.M.(2013) Optical investigation of injection and combustion phases of a fouled piezoelectric injector in a transparent CR diesel engine. *Proceedings SAE 2013 World Congress & Exhibition*. Detroit, MI(USA), SAE Technical Paper 2013-01-1591. ISSN 0148-7191.

2013 P 2310 CATAPANO F., DI IORIO S., LAZZARO M., P.SEMENTA, VAGLIECO B.M..(2013) Characterization of ethanol blends combustion processes and soot formation in a GDI optical engine. *Proceedings SAE 2013 World Congress & Exhibition*.

Detroit, MI(USA), SAE Technical Paper 2013-01-1316. ISSN 0148-7191.

2013 P 2311 di GAETA A., MONTANARO U., GIGLIO V. (2013) *Experimental validation of a hybrid analytical FEM model of an electromagnetic engine valve actuator and its control application.* IEEE/ASME Transactions on Mechatronics 18 (2), pp. 807-812.

2013 P 2312 SIANO D., BOZZA F.(2013) *CFD gas-dynamic noise prediction of a VVA engine intake system.* SAE International Journal of Engines, 6 (2), pp. 1348-1355. SAE Technical Paper 2013-01-1884. ISSN 1946-3936.

2013 P 2313 DE BELLIS V., BOZZA F., SIANO D., GIMELLI A. (2013) *Fuel consumption optimization and noise reduction in a spark-ignition turbocharged VVA engine.* SAE International Journal of Engines, 6 (2), pp.1262-1274. SAE Technical Paper 2013-01-1884. ISSN 1946-3936.

2013 P 2314 di PALMA T.M., BENDE A. (2013) *Vacuum ultraviolet photoionization and ab initio investigations of methyl tert-butyl ether (MTBE) clusters and MTBE-water clusters.* Chemical Physics Letters 561-562 pp. 18-23.

2013 P 2315 NAPOLITANO P., GUIDO C., BEATRICE C., DI BLASIO G. (2013) *Study of the effect of the engine parameters calibration to optimize the use of bio-ethanol/RME/diesel blend in a Euro5 light duty diesel engine.* SAE International Journal of Fuels and Lubricants , 6(1), pp. 263-275.SAE Technical Paper 2013-01-1695. ISSN 1946-3960.

2013 P 2316 DI BLASIO G., BEATRICE C., MOLINA S.. (2013) *Effect of port injected ethanol on combustion characteristics in a dual-fuel light duty diesel engine.* Proceedings SAE 2013 World Congress & Exhibition. Detroit , MI(USA), SAE Technical Paper 2013-01-1692. ISSN 0148-7191.

2013 P 2317 ZAMBONI G., PRATI M.V., CARRARO C., MAFETTANI S., COSTAGLIOLA M.A., MECCARIELLO G., MARELLI S., CAPOBIANCO M. (2013) *Influence of driving cycles on powered two-wheelers emissions, fuel consumption and cold start behavior* SAE Special Publication 2340 "Emission Measurements and Testing 2013", pp. 65-77. SAE Technical Paper 2013-01-1048. ISBN 978-0-7680-8006-3.

2013 P 2318 DELLA RAGIONE L., MECCARIELLO G., PRATI M.V. (2013) *Statistical investigation of in use emissions and fuel consumption measured by PEM on different gasoline cars.* Proceedings SAE 2013 World Congress & Exhibition. Detroit , MI(USA), SAE Technical Paper 2013-01-1511. ISSN 0148-7191.

2013 P 2319 DE SIMIO L., GAMBINO M., IANNACCONE S., (2013) *Experimental and numerical study of hydrogen addition in a natural gas heavy duty engine for a bus vehicle.* International Journal of Hydrogen Energy 38 pp. 6865-6873.

2013 P 2320 COSTAGLIOLA M.A., DE SIMIO L., IANNACCONE S., PRATI M.V. (2013) *Combustion efficiency and engine out emissions of a S.I. engine fueled with alcohol/gasoline blends.* Applied Energy 111 pp. 1162-1171.

2013 P 2321 TAGLIALATELA F., LAVORGNA M., MANCARUSO E, VAGLIECO B.M. (2013) *Determination of combustion parameters using engine crankshaft speed.* Mechanical Systems and Signal Processing 38 pp. 628-633.

2013 P 2323 di BERNARDI M., di GAETA A., MONTANARO M., OLM J.M. (2013) *Experimental validation of the discrete-time MCS adaptive strategy.* Control Engineering Practice 21 pp. 847-859.

2013 P 2325 MITCHELL J.B.A., Le GARREC J.L., di STASIO S. (2013) *SAXS studies of the effects of additives in flames.* 245th American Chemical Society National Meeting & Exposition – Chemistry of Energy & Food. New Orleans (USA).

2013 P 2326 VENERI O., CAPASSO C., FERRARO L., Del PIZZO A. (2013) *Performance analysis on a power architecture for EV ultra-fast charging stations.* 4th International Conference on Clean Electrical Power – Renewable Energy Resources Impact . Alghero (Italy).

2013 P 2327 CATAPANO F., DI IORIO S., LAZZARO M., SEMEN- TA P., VAGLIECO B.M. (2013) *Effect of ethanol blends on soot formation and emissions in a GDI optical engine.* XXXVI Meeting of Italian Section of the Combustion. ISBN 978-88-88104-15-7.

2013 P 2328 MEROLA S.S., DE FILIPPO A., VALENTINO G., TORNATORE C., MARCHITTO L., IANNUZZI S. (2013) *Optical investigation of post-injection strategy impact on the fuel vapor within the exhaust line of a light duty diesel engine supplied with biodiesel blends.* Proceedings SAE 2013 World Congress & Exhibition. Detroit , MI(USA), SAE Technical Paper 2013-01-1127. ISSN 0148-7191.

2013 P 2329 LOMBARDI S., BIZON K., CONTINILLO G., MARRA F.S., VAGLIECO B.M. (2013) *Combined heat and power generation from a stirling engine coupled with a fluidized combustor.* XXXVI Meeting of Italian Section of the Combustion. ISBN 978-88-88104-15-7.

2013 P 2330 BIZON K., CONTINILLO G., MANCARUSO E., VAGLIECO B.M. (2013) *Spatial and temporal independent component analysis of flame dynamics in diesel engine.* XXXVI Meeting of Italian Section of the Combustion. ISBN 978-88-88104-15-7.

2013 P 2331 TORNATORE C., MEROLA S., VALENTINO G., MARCHITTO L. (2013) *In-cylinder spectroscopic measurements of combustion process in a SI engine fuelled with butanol-gasoline blend.* Proceedings SAE 2013 World Congress & Exhibition. Detroit , MI(USA), SAE Technical Paper 2013-01-1318. ISSN 0148-7191.

2013 P 2332 FRUSTERI F., CANNILLA C., BONURA G., SPADARO L., MEZZAPICA A., BEATRICE C., DI BLASIO G., GUIDO C. (2013) *Glycerol ethers production and engine performance with diesel/ethers blend.* Topics in Catalysis 56 (1-8) pp. 378-383.

2013 P 2335 GIORGIO M., GUIDA M., PULCINI G. (2013) *A condition-based maintenance policy of marine engine cylinder liners.* 8th International Conference on Mathematical Methods in Reliability –MMR - Stellenbosch (South Africa).

2013 P 2337 TORNATORE C., MARCHITTO L., MEROLA S.S., VALENTINO G., (2013) *UV-visible emission spectroscopy of the combustion process in a common rail CI engine fuelled with n-butanol-diesel blends.* Applied Mechanic and Materials 390 pp. 286-290.

2013 P 2339 MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2013) *GTL (Gas To liquid) and RME (Rapeseed Methyl Ester) combustion analysis in a transparent CI (compression ignition) engine by means of IR (infrared) digital imaging.* Energy 58 pp. 185-191.

- 2013 P 2361 MONTANARO A., ALLOCCA L., ZHANG A., JOHNSON J., LEE S.Y. (2013)** Nozzle geometry influence on the diesel spray combustion. 6th European Combustion Meeting. Lund (Sweden). ISBN 978-91-637-2150-2.
- 2013 P 2362 ZHANG A., MONTANARO A., ALLOCCA L., LEE S.Y. (2013)** Diesel spray combustion characteristics in a combustion vessel: effect of injection pressure and green diesel. 9th Asia - Pacific Conference on Combustion. Gyeongju (Korea)-ISBN 979-11-950138-0-7.
- 2013 P 2363 IRIMESCU A., TORNATORE C., MARCHITTO L., MEROLA S.S. (2013)** Compression ratio and blow-by rates estimation based on motored pressure trace analysis for an optical spark ignition engine. Applied Thermal Engineering 61 pp101-109.
- 2013 P 2380 PULCINI G. (2013)** A model-driven approach for the failure data analysis of multiple repairable systems without information on individual sequences. IEEE Transactions on Reliability 62 (3) pp. 700-713.
- 2013 P 2381 HAMPAL D., MARCHITTO L., DABAGOV S.B., ALLOCCA L., ALFUSO S., INNOCENTI L. (2013)** Desktop X-ray tomography for low contrast samples. Nuclear Instruments and Methods in Physics Research B 309 pp. 264-267.
- 2013 P 2386 GUIDA M., PULCINI G. (2013)** The inverse gamma process: a family of continuous stochastic models for describing state-dependent deterioration phenomena. Reliability Engineering and System Safety 120 pp. 72-79.
- 2013 P 2388 CHIARIELLO F., REALE F., CALABRIA R., MASSOLI P. (2013)** Off design behaviour of a 100kW turbec T100P gas turbine. Applied Mechanics and Materials 390 pp.275-280.
- 2013 P 2400 MITCHELL J.B.A., le GARREC J.L., SAIDANI G., LEFEUVRE F., di STASIO S. (2013)** Synchrotron radiation studies of additives in combustion, III: ferrocene. Energy & Fuels 27 pp. 4891-4898.
- 2013 P 2401 ALLOCCA L., LEE S.Y., MARCHITTO L., MONTANARO A., NABER J., ZHANG A. (2013)** Effects of the nozzle geometry on fuel dispersion in non-evaporative and evaporative conditions for a diesel injecto. ILASS – Europe 2013 ,25th European Conference on Liquid Atomization and Spray Systems. Chania (Greece).
- 2013 P 2402 ALLOCCA L., MANCARUSO E., MONTANARO A. , SEQUINO L., VAGLIECO B.M. (2013)** Evaluation of RME and mineral diesel fuels behavior in quiescent vessel and EURO 5 engineo. ECOS 2013-26th International Conference on Efficiency, cost, Optimization, Simulation and Environmental Impact of Energy Systems. Guilin (China).
- 2013 P 2404 MONTANARO U., di GAETA A., GIGLIO V. (2013)** Adaptive tracking control of a common rail injection system for gasoline engines: a discrete-time integral minimal control synthesis approach. IEEE Transactions on Control Systems Technology 21(5) pp. 1940-1948.
- 2013 P 2405 MALAGUTI S., BAGLI G., MONTANARO A., PICCINI S., ALLOCCA L. (2013)** Experimental and numerical characterization of gasoline-ethanol blends from a GDI multi-injector by means of a multi-component approach . Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013 -24-0002 (ISSN 0148-7191).
- 2013 P 2406 CALIK A.T., SORUSBAY C., ERGENEMAN M., VALENTINO G., ALLOCCA L., IANNUZZI S., DILER A., OZEN H. (2013)** Investigation of the effect of boost pressure and exhaust gas recirculation rate on nitrogen oxide and particulate matter emissions in diesel engines . Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013 -24-0017 (ISSN 0148-7191).
- 2013 P 2407 MATTARELLI E., FONTANESI S., RINALDINI C., VALENTINO G., IANNUZZI S., SEVERI E., GOLOVITCHEV V. (2013)** Combustion optimization of a marine DI diesel engine . Proceedings 11th International Conference on Engines & Vehicles – ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013 -24-0020 (ISSN 0148-7191).
- 2013 P 2408 LUCCHINI T., FIOCCO M., ONORATI A., MONTANARO A., ALLOCCA L., SEMENTA P., VAGLIECO B.M., CATA-PANO F. (2013)** Full-cycle CFD modeling air/fuel mixing process in an optically accessible GDI engine . SAE INTERNATIONAL JOURNAL OF ENGINES 6(3)- 2013- Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013 -24-0020 (ISSN 1946-3944).
- 2013 P 2409 VIRGOLINO da SILVA LUZ G., ALLOCCA L., MONTANARO A., VERAS C.,del PILAR FALLA M. (2013)** Physical-chemical characteristics of diesel-biodiesel blends with additives and their effects on the spray behavior . Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013 -24-0035 (ISSN 0148-7191).
- 2013 P 2410 MONTANARO A., ALLOCCA L., JOHNSON J., LEE S.Y., NABER J., ZHANG A. (2013)** Influence on the nozzle geometry of a diesel single-hole injector on liquid and vapor phase distributions at engine-like conditions. Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013 -24-0038 (ISSN 0148-7191).
- 2013 P 2411 MANCARUSO E., SEQUINO L., VAGLIECO B.M., CIARAVINO C. (2013)** Coking effect of different FN nozzles on injection and combustion in an optically accessible diesel engine. Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013 -24-0039 (ISSN 0148-7191).
- 2013 P 2412 ALLOCCA L., DABAGOV S., HAMPAL D., MARCHITTO L., ALFUSO S. (2013)** Tomography of a GDI spray by polyCO based x-ray technique. Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013 -24-0040 (ISSN 0148-7191).
- 2013 P 2413 LOMBARDI S., BIZON K., CONTINILLO G., MANCARUSO E., VAGLIECO B.M. (2013)** Dynamic analysis of emission spectra in HCCI combustion. Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013 -24-0042 (ISSN 0148-7191).
- 2013 P 2414 FINESO R., SPESSA E., MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2013)** Assessment of a new quasi-dimensional multizone combustion model for the spray and soot formation analysis in an optical single cylinder diesel engine. SAE INTERNATIONAL JOURNAL OF ENGINES 6(3). 2013 - Proceedings 11th International Conference on Engines & Vehicles

cles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013-24-0044 (ISSN 1946-3944).

2013 P 2415 BIZON K., CONTINILLO G., LOMBARDI S., MANCARUSO E., SEMENTA P., VAGLIECO B.M.. (2013) Independent component analysis of combustion images in optically accessible gasoline and diesel engines. Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013-24-0045 (ISSN 0148-7191).

2013 P 2416 di IORIO S., SEMENTA P., VAGLIECO B.M.. (2013) Experimental investigation of a methane-gasoline dual-fuel combustion in a small displacement optical engine. Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013-24-0046 (ISSN 0148-7191).

2013 P 2417 MAGNO A., MANCARUSO E., VAGLIECO B.M., FLORIO S., GIOCO G., REBESCO E. (2013) Study on spray injection and combustion of fouled and cleaned injectors by means of 2-D digital imaging in a transparent CR diesel engine. Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013-24-0062 (ISSN 0148-7191).

2013 P 2418 TORNATORE C., MARCHITTO L., VALENTINO G., IANUZZI S., MEROLA S.S. (2013) Spectroscopic investigation of post-injection strategy impact on fuel vapor with the exhaust line of a light duty diesel engine supplied with diesel/butanol and gasoline blends. Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013-24-0066 (ISSN 0148-7191).

2013 P 2419 BEATRICE C., RISPOLI N., PATRIANAKOS G., KOSTOGLIOU M., KONSTANDOPOULOS A., IMREN A., DENBRATT I., PALACIN R.. (2013) Emission reduction technologies for the future low emission rail diesel engines: EGR vs SCR.. Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013-24-0087 (ISSN 0148-7191).

2013 P 2420 DI BLASIO G., BONURA G., FRUSTERI F., BEATRICE C., CANNILLA C., VISCARDI M., (2013) Experimental characterization of diesel combustion using glycerol derived ethers mixtures. Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013-24-0104 (ISSN 0148-7191).

2013 P 2421 DE SIMIO L., GAMBINO M., IANNACCONE S., BORRELLI L., GIMELLI A., MUCCILLO M., (2013) Experimental analysis of a natural gas fueled engine and 1-D simulation of VVT and VVA strategies. Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013-24-0111 (ISSN 0148-7191).

2013 P 2422 NAPOLITANO P., GUIDO C., BEATRICE C., CIARAVINO C. (2013) Analysis of nozzle coking impact on emissions and performance of a euro5 automotive diesel engine. SAE INTERNATIONAL JOURNAL OF ENGINES 6(3). 2013 - Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013-24-0127 (ISSN 1946-3944).

2013 P 2423 CATAPANO F., DE SIMIO L., GAMBINO M., IANNACCONE S., SEMENTA P., VAGLIECO B.M., BERNARDI S., CATANESE D., FERRARI M. (2013) Investigation of combustion process in a small optically accessible two stroke SI engine.-

Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013-24-0131 (ISSN 0148-7191).

2013 P 2424 MECCARIELLO G., DELLA RAGIONE L., PRATI M.V., COSTAGLIOLA M.A., SACCOCCIA V. (2013) Real time emissive behaviour of a bi-fuel euro4 SI car in Naples urban area. SAE INTERNATIONAL JOURNAL OF FUELS AND LUBRICANTS 6(3). 2013 - Proceedings 11th International Conference on Engines & Vehicles –ICE 2013, Capri-NA (Italy) 2013, SAE Technical Paper 2013-24-0173 (ISSN 1946-3960).

2013 P 2425 DI IORIO S., MAGNO A., MANCARUSO E., VAGLIECO B.M. (2013) Analysis of soot particles and NOx in the cylinder and exhaust of a compression ignition engine fuelled with RME diesel fuel. -8th Mediterranean Combustion Symposium.. Cesme. Izmir (Turkey).

2013 P 2426 ARSIE I., DI IORIO S., VACCARO S. (2013) Experimental investigation of the effects of AFR, spark advance and EGR on nanoparticle emissions in a PFI engine. Journal of Aerosol Science 64, pp.1-10

2013 P 2427 COSTA M., SORGE U., MONTANARO A., ALLOCCA L.. (2013) Applying genetic algorithms to decision making of injection strategies in a GDI engine 3rd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering. Cagliari (Italy).

2013 P 2428 COSTA M., MARCHITTO L., MEROLA S.S., SORGE U. (2013) Numerical simulation and experimental investigation of early development of the combustion process in a direct-injection spark-ignition engine. 6th International Conference on Sustainable Energy & Environmental Protection – SEEP 2013-Maribor (Slovenia)

2013 P 2429 COSTA M., MASSAROTTI N., INDRIZZI V., RAJH B., YIN C., SAMEC N. (2013) Bed models for solid fuel conversion process in grate-fired boilers. 6th International Conference on Sustainable Energy & Environmental Protection – SEEP 2013-Maribor (Slovenia)

2013 P 2430 COSTA M., SORGE U., VAGLIECO B.M., SEMENTA P., CATAPANO F. (2013) Experimental and numerical analysis of the knocking phenomenon in a GDI engine. Proceedings of European Modeling and Simulation Symposium – EMMS 2013-Atene (Grecia).

2013 P 2431 BIZON K., CONTINILLO G., MANCARUSO E., VAGLIECO B.M. (2013) Characterization of the spray dynamics in a diesel engine using optical imaging and active contour approach. Proceedings of the 24th ICEDERS 2013 – Taipei (Taiwan).

2013 P 2432 BIZON K., CONTINILLO G., LOMBARDI S., VAGLIECO B.M. (2013) Independent component analysis of transient reactive flows in optically accessible SI diesel engine. Proceedings of the 24th ICEDERS 2013 – Taipei (Taiwan).

2013 P 2433 MARCHITTO L., DABAGOV S.B., ALLOCCA L., HAMPAL D., LEIDI A., ALFUSO S. (2013) X-Ray tomography of the high pressure spray by polycapillary optics. In "Advances in X-Ray/EUV Optics and Components VIII- Proceedings of SPIE 2013" (A.Knounsay, S.Goto, C.Morawe & Gregory M. Morrison, Eds), Vol. 8848, pp. 884808–884808-8 (ISBN: 978-081-94-9698-0).

- 2013 P 2434 CHIARIELLO F., ALLOUIS C., REALE F. (2013)** *Gaseous and particulate emissions of a micro gas turbine fuelled by straight vegetable oil kerosene blends.* -8th Mediterranean Combustion Symposium. Cesme. Izmir (Turkey).
- 2013 P 2449 SIANO D., BOZZA F.(2013)** *Knock detection in a turbocharged S.I. engine based on ARMA technique and chemical kinetics.* SAE/KSAE 2013 International Powertrains, Fuels & Lubricants Meeting. Seoul (South Korea) 2013 – SAE Paper 2013-01-2510 (ISSN 0148-7191).
- 2013 P 2450 MONTANARO A., ALLOCCA L.(2013)** *Impact of nozzle coking on spray formation for diesel injectors.* SAE/KSAE 2013 International Powertrains, Fuels & Lubricants Meeting. Seoul (South Korea) 2013 – SAE Paper 2013-01-2546 (ISSN 0148-7191).
- 2013 P 2451 MEROLA S.S., MARCHITTO L., TORNATORE C., VALENTINO G. (2013)** *UV-visible optical characterization of the early combustion stage in a DISI engine fuelled with butanol-gasoline blend.* SAE International Journal of Engines 6 (4) (ISSN 1946-3944)- SAE/KSAE 2013 International Powertrains, Fuels & Lubricants Meeting. Seoul (South Korea) 2013 – SAE Paper 2013-01-2638.
- 2013 P 2452 MEROLA S.S., MARCHITTO L., IANNUZZI S., TORNATORE C., VALENTINO G. (2013)** *Multi-wavelength spectroscopic investigation of the post-injection strategy effect on the fuel vapour within the exhaust line of a light duty diesel engine fuelled with B5 and B3.0* SAE/KSAE 2013 International Powertrains, Fuels & Lubricants Meeting. Seoul (South Korea) 2013 – SAE Paper 2013-01-2519 (ISSN 0148-7191).
- 2013 P 2453 VIRGOLINO da SILVA LUZ G., HIDALGO P., GURGEL VERAS C., MEROLA S.S., ALLOCCA L., MONTANARO A., MARCHITTO L. (2013)** *Studies of exhaust emissions and optical diagnostic of spray for biodiesel samples with additives package using a common-rail system.* 22th SAE BRASIL 2013 International Congress and Display. Sao Paulo (Brasil) 2013 – SAE Paper 2013-36-0319 (ISSN 0148-7191).
- 2013 P 2460 CUNG K.D., ZHANG A., LEE S.Y, KWEO C.B., MONTANARO A., ALLOCCA L. (2013)** *Investigation of two-stage fuel injection on combustion intensity and soot formation under diesel engine conditions.* Proceedings of the 2013 Fall Technical Meeting Western States Section of the Combustion Institute (ISBN 978-1-62993-584-3).
- 2013 P 2462 IRIMESCU A., MARCHITTO L., MEROLA S.S., TORNATORE C., VALENTINO G., SILVA S., GRIMALDI A. (2013)** *Experimental investigation of combustion processes in an optical DISI engine equipped with plasma-assisted ignition system.* 2013 International conference and Exhibition on The spark ignition engine of the future. Exploring innovative concepts to meet future CO2 emissions and electrification challenges- Strasbourg (France).
- 2013 P 2465 MALAGUTI S., FONTANESI S., CANTORE G., MONTANARO A., ALLOCCA L. (2013)** *Modelling of primary breakup process of a gasoline direct engine multi-hole spray.* Atomization and Sprays 23 (10), pp. 861-888.
- 2013 P 2469 MILES P.C., VAGLIECO B.M, MANCARUSO E. (2013)** *ABSTRACTS –ICE 2013 – 11th International Conference on Engines & Vehicles –SAE International 2013, pp. 258 (ISBN: 978-88-907870-3-4)*
- 2013 P 2471 MAGNO A., MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2013)** *Analysis of spray evolution from both piezo and solenoid injectors in single cylinder research engine.* –ILASS – Europe 2013- 25th European Conference on Liquid Atomization and Spray Systems. Chania (Greece).
- 2013 P 2473 MOCCIA V., D'ALESSIO J. (2013)** *Burning behaviour of high-pressure CH4-H2-air mixtures.* Energies 6 pp. 97-116.
- 2013 P 2486 VALENTINO G., IANNUZZI S., CORCIONE F.E. (2013)** *Experimental investigation on the combustion and emissions of a light duty diesel engine fuelled with butanol-diesel blend.* – SAE Paper 2013-01-0915 (ISSN 0148-7191).
- 2013 P 2491 VENERI O., MIGLIARDINI F., CAPASSO C., CORBO P. (2013)** *Experimental analysis on performance of lithium based energy storage systems for road full electric and hybrid vehicles.* ICAE 2013 – Pretoria (South Africa). Paper ID:ICAE2013-333.
- 2013 P 2492 CAPASSO C., VENERI O. (2013)** *Experimental study on laboratory dc fast recharging station for road full electric and hybrid vehicles.* ICAE 2013 – Pretoria (South Africa). Paper ID:ICAE2013-335.
- 2013 P 2502 DI BLASIO G., BONURA G., FRUSTERI F., BEATRICE C., CANNILLA C., VISCARDI M. (2013)** *Experimental characterization of diesel combustion using glycerol derived ethers mixtures.* SAE International Fuels & Lubricants 6(3). SAE Paper 2013-24-01404 (ISSN 1946-3960).
- 2013 P 2619 GIORGIO G., GUIDA M.,PULCINI G., (2013)** *Modeling of increasing age-and state-dependent degradation processes: a new closed form Markovian solution.* Abstract 6th International Conference of the ERCIM (European Research consortium for Informatics and Mathematics), London (UK) 2013.
- 2013 P 2630 SKREIBERG O., MASSOLI P., AIBELHA P., ROSKILLY A.P., SHARIFI V., GEORGES L. (2013)** *Review of biomass micro CHP for low energy buildings.* European Biomass Conference and Exhibition Proceedings- pp.9.
- 2013 P 2631 TARLETD., DEJEAN A., BELLETTRE J., ALLOUIS C., MASSOLI P. (2013)** *Temperature distribution of daughter-droplets issued from three different micro-explosions - 8th World Conference on Experimental Heat Transfer, Fluid Mechanics, and Thermodynamics 2013- Lisbon (Portugal).*
- 2013 P 2632 RAUCH B., LE CLERCQ P., CALABRIA R., MASSOLI P. (2013)** *Validation and Uncertainty Quantification of an Ethanol Spray Evaporation Model - ASME 2013 Verification and Validation Symposium - Las Vegas (USA).*
- 2013 P 2758 MIGLIARDINI F.,CAPASSO C., CORBO P.. (2013)** *Effect of hydrogen feeding subsystem on efficiency and durability of pem fuel cell systems - EF 2013 - 5th European Fuel Cell Technology & Applications Conference- Roma (Italy).*
- 2013 P 2772 MEROLA S.S., VALENTINO G., TORNATORE C., MARCHITTO L. (2013)** *In-cylinder spectroscopic measurements of knocking combustion in a SI engine fuelled with butanol-gasoline blend.* Energy 62, pp. 150-161.
- 2013 P 2795 BIZON K., CONTINILLO G., MANCARUSO E., VAGLIECO B.M. (2013)** *Towards on-line prediction of the in-cylinder pressure in diesel engines from engine vibration using*

artificial neural networks SAE Paper 2013-24-0137 (ISSN 0148-7191).

2014

2014 P 2338 BEATRICE C., NAPOLITANO P., GUIDO C. (2014) Injection parameter optimization by DoE of a light-duty diesel engine fed by Bio-ethanol/RME/diesel blend. Applied Energy 113 pp. 373-384.

2014 P 2436 MURENA E., PRATI M.V., QUARANTA F., (2014) Monitoring the quality of air in the port of Naples. In "Developments in Maritime Transportation and Exploitation of Sea Resources" - Proceedings of IMAM 2013" (Guendes Soares & Lopez Pena, Eds), Taylor & Francis Group London 2014, pp. 835-839 (ISBN: 978-1-138-00124-4).

2014 P 2438 COSTAGLIOLA M.A., MURENA F., PRATI M.V. (2014) Exhaust emissions of volatile organic compounds of powered two-wheelers: Effect of cold start and vehicle speed. Contribution to greenhouse effect and tropospheric ozone formation. Science of the Total Environment 468-469 pp. 1043-1049.

2014 P 2461 MEROLA S.S., TORNATORE C., IANNUZZI S.E., MARCHITTO L., VALENTINO G. (2014) Combustion process investigation in a speed diesel engine fuelled with-butanol diesel blend by conventional methods and optical diagnostics. Renewable Energy 64 pp. 225-237.

2014 P 2466 MAGNO A., MANCARUSO E., VAGLIECO B.M. (2014) Experimental investigation in an optically accessible diesel engine of a fouled piezoelectric injector. Energy 64 pp. 842-852.

2014 P 2467 CHA J.I.H., GUIDA M., PULCINI G. (2014) A competing risks model with degradation phenomena and catastrophic failures. International Journal of Performability Engineering 10 (1) pp.63-74.

2014 P 2470 FRAIOLI V., MANCARUSO E., MIGLIACCIO M.na, VAGLIECO B.M. (2014) Ethanol effect as premixed fuel in dual – fuel CI engines: experimental and numerical investigations. Applied Energy 119 pp. 394-404.

2014 P 2472 ABAGNALE C., CAMERETTI M.C., DE SIMIO L., GAMBINO M., IANNACCONE S., TUCCILLO R.. (2014) Combined numerical-experimental study of dual fuel diesel engine. Energy Procedia 45 pp.721-730.

2014 P 2474 ABAGNALE C., CAMERETTI M.C., DE SIMIO L., GAMBINO M., IANNACCONE S., TUCCILLO R.. (2014) Numerical simulation and experimental test of dual fuel operated diesel engines. Applied Thermal Engineering 65 pp. 403-417.

2014 P 2479 MONTANARO U., DI GAETA A., GIGLIO V., (2014) Robust discrete-time MRAC with minimal controller synthesis of an electronic throttle body. IEEE/ASME TRANSACTIONS ON MECHATRONICS 19(2), pp. 524-537.

2014 P 2481 SIANO D., VISCARDI M., DONISI F., NAPOLITANO P. (2014) Numerical modeling and experimental evaluation

of an high-speed train pantograph aerodynamic noise. In "Computers and Mathematics in Automation and Materials Science" - Proceedings of the 5th International Conference on Applied Mathematics and Informatics (AMATHI '14) – Proceedings of the 5th International Conference on Automotive and Transportation Systems (ICAT '14) - Proceedings of the 7th International Conference on Materials Science (MATERIALS '14)"- (Oludare Owolabi Ed.)-WSEAS Press, Cambridge, MA,USA – 21-31/1/ 2014, pp. 86-92 (ISBN: 978-960-474-366-7).

2014 P 2482 SEVERI E., FONTANESI S., DE BELLIS V., BOZZA F., SIANO D. (2014) Combined application of 1D-3D simulation and auto-regressive technique for the characterization of knock proximity in a small VVA turbocharged engine. International Multidimensional Engine Modeling (IMEM) User's Group Meeting at the SAE Congress – Detroit (USA).

2014 P 2483 FONTANESI S., SEVERI E., SIANO D., BOZZA F., DE BELLIS V. (2014) Analysis of knock tendency in a small VVA turbocharged engine based on integrated 1D-3D simulations and auto-regressive technique. SAE International Journal of Engines 7(1): 2014 –SAE Technical Paper 2014-01-1065 – ISSN 1946-3936.

2014 P 2484 SIANO D., TEODOSIO L., DE BELLIS V., BOZZA F. (2014) Analysis and design of an intake filter box for a downsized VVA engine.–SAE Technical Paper 2014-01-1693 – ISSN 0148-7191.

2014 P 2485 ZHANG A., MONTANARO A., ALLOCCA L., NABER J., LEE S.Y. (2014) Measurement of diesel spray formation and combustion upon different nozzle geometry using hybrid imaging technique.–SAE Technical Paper 2014-01-1410 – ISSN 1946-3936.

2014 P 2488 MONTANARO A., MIGLIACCIO M.na, ALLOCCA L., FRAIOLI V., LEE A.Y., ZHANG A., NABER J. (2014) Schlieren and mie scattering visualization for single-hole diesel injectore under vaporizing conditions with numerical validation.–SAE Technical Paper 2014-01-1416 – ISSN 0148-7191.

2014 P 2490 CALIFANO V., CALABRIA R., MASSOLI P. (2014) Experimental evaluation of the effect of emulsion stability on micro-explosion phenomena for water-in-oil emulsions.Fuel 117, Par A pp. 87-94.

2014 P 2493 BIZON K., CONTINILLO G., LOMBARDI S., MANCARUSO E., SEMENTA P., VAGLIECO B.M.. (2014) Independent component analysis applied to combustion images in transparent engines. Ingeria automobilulu 8, 1(30) pp.7-11.

2014 P 2494 DI IORIO S., MANCARUSO E., SEMENTA P., VAGLIECO B.M.. (2014) Effect of biofuels on particle emissions from compression and spark ignition engines. 14th Stuttgart International Symposium Automotive and Engine Technology – Stuttgart (Germany).

2014 P 2495 DI IORIO S., SEMENTA P., VAGLIECO B.M., CATAPANO F. (2014) An Experimental investigation on combustion and engine performance and emissions of a methane-gasoline dual-fuel optical engine.–SAE Technical Paper 2014-01-1329– ISSN 0148-7191.

2014 P 2496 CATAPANO F., DI IORIO S., SEMENTA P., VAGLIECO B.M. (2014) Characterization of ethanol-gasoline blends combustion processes and particle emissions in a

GDI/PFI small engine. –SAE Technical Paper 2014-01-1382–ISSN 0148-7191.

2014 P 2497 MANCARUSO E., MARIATO R., SEQUINO L., VAGLIECO B.M. (2014) Comparison of a spray characteristics in an optical single cylinder diesel engine with 1D model. –SAE Technical Paper 2014-01-1424– ISSN 0148-7191.

2014 P 2498 DI IORIO S., MAGNO A., MANCARUSO E., VAGLIECO B.M. (2014) Effect of diesel/RME blend on particle emissions from a diesel engine for quadricycle vehicle. –SAE Technical Paper 2014-01-1602– ISSN 0148-7191.

2014 P 2499 DI BLASIO G., VISCARDI M., ALFE' M., GARGIULO V., CIAJOLO A., BEATRICE C. (2014) Analysis of the impact of the dual-fuel ethanol –diesel system on the size, morphology, and chemical characteristics of the soot particles emitted from a LD diesel engine. –SAE Technical Paper 2014-01-1613– ISSN 0148-7191.

2014 P 2500 NAPOLITANO P., FRAIOLI V., BEATRICE C., MIGLIACCIO M.na., GUIDO C. (2014) Estimation of the TTW factors for a light duty dual fuel NG-diesel EU5 passenger. –SAE Technical Paper 2014-01-1621– ISSN 0148-7191.

2014 P 2501 DELLA RAGIONE L., MECCARIELLO G., PRATI M.V., COSTAGLIOLA M.A. (2014) Statistical evaluation of slope's effect on real emissions and fuel consumption performed with different cars in Naples urban area. TRA 2014 – Transport Research Arena 2014 – Parigi (France).

2014 P 2503 GIORGIO M., GUIDA M., PULCINI G., (2014) Repairable system analysis in presence of covariates and random effects. Reliability Engineering and System Safety 131, pp. 271-281.

2014 P 2505 MURA E., CALABRIA R., CALIFANO V., MASSOLI P., BELLETTRE J. (2014) Emulsion droplet micro-explosion: Analysis of two experimental approach. Experimental Thermal and Fluid Science 56, pp. 69-74.

2014 P 2506 CHIARIELLO F., ALLOUIS C., REALI F., MASSOLI P. (2014) Gaseous and particulate emissions of a micro gas turbine fuelled by straight vegetable oil-kerosene blends. Experimental Thermal and Fluid Science 56, pp. 16-22.

2014 P 2507 MADILAS C., KARAGIANNAKIS G., KONSTANDOPOULOS A.G., BEATRICE C., LAZZARO M., DI BLASIO G., MOLINA S., PASTOR J.V., GIL A. (2014) Study of basic oxidation and combustion characteristics of aluminium nanoparticles under enginelike conditions. Energy & Fuels 28, pp. 3430-3441.

2014 P 2508 MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2014) IR digital imaging for analysing in-cylinder combustion process in transparent diesel engine. IEEE CONFERENCE PUBLICATIONS (ISBN: 978-8-8872-3718-4)

2014 P 2509 MASTROFRANCESCO A., ALFE' M., ROSATO E., GARGIULO V., BEATRICE C., DI BLASIO G., ZHANG B., SU D.S., PICARDO M., FIORITO S. (2014) Proinflammatory effects of diesel exhaust nanoparticles on scleroderma skin cells. Journal of Immunology Research, Article ID 138751, 9 pages

2014 P 2510 DI IORIO S., SEMENTA P., VAGLIECO B.M. (2014) Experimental investigation on the combustion process in a spark ignition optically accessible engine fueled with me-

thane/hydrogen blends. International Journal of Hydrogen Energy 39, pp. 9809-9823

2014 P 2511 CATAPANO F., DI IORIO S., SEMENTA P. VAGLIECO B.M. (2014) Spectroscopic techniques for the evaluation of the in-cylinder air fuel ration in a small optical SI engine fuelled with methane and hydrogen/methane blends. IEEE CONFERENCE PUBLICATIONS (ISBN: 978-8-8872-3718-4)

2014 P 2512 DELLA RAGIONE L., MECCARIELLO G. (2014) Preliminary consideration on GPS signal reconstruction in real driving cycle analysis –Latest Trends in Energy, Environment and Development 2014, pp. 35-41 (ISBN: 978-960-474-375-9)

2014 P 2513 SIANO D., VISCARDI M., NAPOLITANO P., PANZA M.A. (2014) Experimental/FE numerical correlation of a composite sandwich panel of a high-speed train – Latest Trends in Applied and Theoretical Mechanics 2014, pp. 68-76 (ISBN: 978-960-474-377-3).

2014 P 2514 VISCARDI M., SIANO D., NAPOLITANO P., DONISI F. (2014) An analysis model for the aerodynamic noise prediction of an high-speed train pantograph – Latest Trends in Circuits, Systems, Signal Processing and Automatic Control 2014, pp. 271-280 (ISBN: 978-960-474-374-2).

2014 P 2517 COSTA M., MARCHITTO L., MEROLA S.S., SORGE U. (2014) Study of mixture formation and early flame development in a research GDI (gasoline direct injection) engine through numerical simulation and UV-digital imaging. Energy (DOI:10.1016/j.energy.2014.04.114).

2014 P 2518 CAPPUCCIO G., COSTA M., INDRIZZI V., MASSAROTTI N. (2014) Assessment of a OD-S model for waste or biomass gasification. EURASIA 2014 – Waste Management Symposium – Istanbul (Turkey).

2014 P 2519 COSTA M., MASSAROTTI N., ARPINO F., CORTELESSA G., GHETTI S., LOMBARDI T. (2014) CFD analysis of the combustion chamber of a waste-to-energy plant. THERMAComp 2014 – 3th International Conference on Computational Methods for Thermal Problems - Lake Bled (Slovenia).

2014 P 2520 ARPINO F., FRATTOLILLO A., COSTA M., MASSAROTTI N., GHETTI S., LOMBARDI T. (2014) A simplified general model for a waste-to-energy plant. THERMAComp 2014 – 3th International Conference on Computational Methods for Thermal Problems - Lake Bled (Slovenia).

2014 P 2521 COSTA M., MASSAROTTI N., INDRIZZI V. (2014) Optimization of the NOx emission in an incinerator plant. THERMAComp 2014 – 3th International Conference on Computational Methods for Thermal Problems - Lake Bled (Slovenia).

2014 P 2522 COSTA M., MASSAROTTI N., CAPPUCCIO G., CHANG G.T., SHIUE A., LIN C.J., WANG Y.T. (2014) Modeling of syngas production from biomass energy resources available in Taiwan. –Chemical Engineering Transactions 37, pp. 343-348.

2014 P 2523 CATAPANO F., DI IORIO S., MAGNO A., SEMENTA P., VAGLIECO B.M. (2014) A comprehensive analysis of the effect of ethanol, methane and methane-hydrogen blend on the combustion process in an optical PFI engine. 27th International Conference on Efficiency, Cost, Optimization, simulation and Environmental Impact of Energy Systems ECOS 2014 - Turku (Finland).

- 2014 P 2524 MAGNO A., MANCARUSO E., VAGLIECO B.M. (2014)** *Energetic and pollutant emission analysis of a small diesel engine fuelled with diesel and diesel/RME blend.* - 27th International Conference on Efficiency, Cost, Optimization, simulation and Environmental Impact of Energy Systems -ECOS 2014 – (ISBN 978-1-63439-134-4).
- 2014 P 2525 SIANO D., PANZA M.A., (2014)** *Analisi di sensitività degli indici di detonazioni e predizione del rumore di combustione per un motore multicilindrico.* 41° Convegno Nazionale – Associazione Italiana di Acustica - Pisa (Italy).
- 2014 P 2526 SIANO D., D'AGOSTINO D., (2014)** *Tecniche matematiche per la ricostruzione del diagramma indicato mediante l'utilizzo dei segnali vibrazionali di un motore a combustione interna.* 41° Convegno Nazionale – Associazione Italiana di Acustica - Pisa (Italy).
- 2014 P 2527 SIANO D., VISCARDI M., (2014)** *Analisi numeriche e sperimentali delle proprietà di trasmissione sonora di un sistema prototipale di aspirazione di un motore per le applicazioni aeronautiche.* 41° Convegno Nazionale – Associazione Italiana di Acustica - Pisa (Italy).
- 2014 P 2528 MEROLA S.S., MARCHITTO L., TORNATORE C., VALENTINO G., IRIMESCU A. (2014)** *Combustion process investigations in a DISI engine fuelled with butanol through thermodynamic analysis and optical diagnostics.* 27th International Conference on Efficiency, Cost, Optimization, simulation and Environmental Impact of Energy Systems ECOS 2014 - Turku (Finland).
- 2014 P 2529 ALLOCCA L., BALTADOR C., MORONI A., ATTANASIO C., CIRILLO C., GAMBARELLA U. (2014)** *Magnetic properties of ferromagnetic thin films obtained by magneto-optic kerr effect measurements* – Proceedings Third Mediterranean Photonics Conference – 2014 IEEE (ISBN: 978-1-4799-4819-2).
- 2014 P 2531 GUIDA M., POLI P., PULCINI G. (2014)** *Reliability analysis and prediction of the failure process of some traction converters.* WIT Transaction on the Built Environment 135, pp.279-290 (DOI: 10.2495.CR140221).
- 2014 P 2532 MEROLA S.S., MARCHITTO L., TORNATORE C., VALENTINO G. (2014)** *Spray-combustion process characterization in a common rail diesel engine fuelled with butanol-diesel blends by conventional methods and optical diagnostics.* AIMS Energy 2 (2), pp.116-132 (DOI: 10.3934/energy.2014.1.116).
- 2014 P 2533 di STASIO S. (2014)** *Restructuring of Soot Fractals in flames small-Angle X-ray anfls light scattering experiments .* AEROSOL TECHNOLOGY 2014 – Karlsruhe (Germany)
- 2014 P 2534 di STASIO S., AURIEMMA M. (2014)** *Modulation of soot residence time in a flame system.* Third International Conference on Computational Methods for Thermal Problems - ThermaComp2014 – pp.477-480 (ISBN: 978-88-7431-727-1).
- 2014 P 2535 di STASIO S., IAZZETTA A. (2014)** *ID-Metal oxide nanostructures via CVD route: a study by photon heat transfer simulations.* Third International Conference on Computational Methods for Thermal Problems - ThermaComp2014 – pp.491-494 (ISBN: 978-88-7431-727-1).
- 2014 P 2536 COSTA M., SORGE U., SEMENTA P., MONTANARO A. (2014)** *Analysis of the GDI spray dynamics through multi-dimensionaonal modelling and flow visualization in an optically accessible SI engine.* Proceedings of the ASME 2014-12th Biennial Conference on Engineering Systems Design and analysis ESDA 2014-07-16 – Copenhagen (Denmark).
- 2014 P 2537 COSTA M., MARCHITTO L., MEROLA S.S., SORGE U. (2014)** *Optimization of the performance of a GDI engine under lean conditions: an experimental and numerical study* – Proceedings of the First International Conference on Engineering and Applied Sciences Optimization (OPT-i) (ISBN: 978-960-99994-5-8).
- 2014 P 2538 ZAMANI HAGHIGHI V., HOSSEINI V., AFSHIN H., ALLOCCA L., BALOO M. (2014)** *Comparison of numerical model coefficients for simulation of single-hole and multi-hole injector of gasoline direct injection (GDI) engine.* -8th International Conference on Internal combustion Engines and Oil – Research Institute of Petroleum Industry –IRAN.
- 2014 P 2539 DI IORIO S., MANCARUSO E., VAGLIECO B.M. (2014)** *Experimental investigation of in-cylinder Nox and soot formation by means of optical techniques in a CR diesel engine fuelled with oxygenated fuel* – Automotive Exhaust Emissions and energy Recovery – Environmental Science, Engineering and Technology (ISBN: 978-1-63321-537-5).
- 2014 P 2540 SIANO D., CITARELLA R. (2014)** *Elastic multibody simulation of a multi-cylinder engine.* The Open Mechanical Engineering Journal 8, pp.157-169.
- 2014 P 2541 BEATRICE C., DI BLASIO G., GUIDO C., CANNILLA C., BONURA G., FRUSTERI F. (2014)** *Mixture of glycerol ethers as diesel bio-derivable oxy-fuel: impact on combustion and emissions of an automotive engine combustion system.* Applied Energy 132, pp. 236-247.
- 2014 P 2542 BIZON K., CONTINILLO G., LOMBARDI S., MANCARUSO E., VAGLIECO B.M. (2014)** *ANN-based virtual sensor for on-line prediction of in-cylinder pressure in a diesel engine* – 24th European Symposium on Computer aided process engineering – Part A -pp. 763-768 (ISBN: 978-0-444-63434-4).
- 2014 P 2544 BOCCARDI S., CATAPANO F., COSTA M., SEMENTA P., SORGE U., VAGLIECO B.M. (2014)** *Optimization of the GDI engine operation with stoichiometric mixtures using numerical modeling.* Civil-Comp Proceedings: 105, pp. 16.
- 2014 P 2545 Della RAGIONE L., MECCARIELLO G. (2014)** *GPS signal correction to improve vehicle location during experimental campaign.* International Journal of Environmental, Ecological, Geological and Mining Engineering 8 (7), pp. 493-499.
- 2014 P 2546 di GAETA A., MONTANARO U. (2014)** *Application of a robust model reference adaptive control algorithm to a nonlinear automotive actuator.* International Journal of Automation and Computing 11 (4), pp. 377-391.
- 2014 P 2547 COSTA M., SORGE U., SEMENTA P., VAGLIECO B.M. (2014)** *Modeling and performance optimization of a direct injection spark ignition engine for the avoidance of knocking* -4th International Conference on Simulation and Modeling Methodologies, Technologies and Applications – pp. 484-496 (ISBN: 978-989-758-038-3).
- 2014 P 2548 CHA J.H., PULCINI G. (2014)** *Optimal burn-in based on process history.* Abstract 37th Conference on Stochastic Processes and their applications, Buenos aires (Argentina) 2014.

- 2014 P 2553 SIANO D., D'AGOSTINO D. (2014)** *Vibrational signals processing for in cylinder pressure reconstruction of a four cylinder spark ignition engine.* International Review on Modelling and Simulations (I.RE.MO.S.)7 (3), pp. 510-516.
- 2014 P 2554 SIANO D., VISCARDI M., AIELLO R. (2014)** *Sensitivity analysis and correlation experimental/numerical FEM-BEM for noise reduction assessment of an engine beauty cover.* -69th Conference of the Italian Thermal Machines Engineering Association, ATI 2014 – Milano (Italy).
- 2014 P 2555 SIANO D., D'AGOSTINO D. (2014)** *Knock detection in SI engines by using the discrete wavelet transform of the engine block vibrational signals.* -69th Conference of the Italian Thermal Machines Engineering Association, ATI 2014 – Milano (Italy).
- 2014 P 2556 SIANO D., VISCARDI M., PANZA M.A. (2014)** *Acoustic optimization of a high-speed train composite sandwich panel based on analytical and experimental transmission loss evaluation integrated by FE/Test correlation analysis.* -69th Conference of the Italian Thermal Machines Engineering Association, ATI 2014 – Milano (Italy).
- 2014 P 2557 VALENTINO G., IANNUZZI S.E., MARCHITTO L., MEROLA S.S., TORNATORE C., (2014)** *Optical investigation of postinjection strategy effect at the exhaust line of a light-duty diesel engine supplied with diesel/butanol and biodiesel blends.* Journal of Energy Engineering 140 (3), pp A4014010-1/7.
- 2014 P 2560 BOZZA F., DE BELLIS V., SIANO D. (2014)** *A knock model for 1D simulations accounting for cyclic dispersion phenomena.* SAE Technical Paper 2014-01-2554 – (ISSN 0148-7191).
- 2014 P 2562 CATAPANO F., di IORIO S., SEMENTA P., VAGLIECO B.M., FIACCAVENTO M., GIARI F., MARCHETTI A. (2014)** *Ethanol addition influence on backfire phenomena during kick-back in a spark-ignition transparent small.* SAE Technical Paper 2014-32-0093 – (ISSN 0148-7191).
- 2014 P 2563 CATAPANO F., di IORIO S., SEMENTA P., VAGLIECO B.M. (2014)** *Investigation of ethanol-gasoline dual fuel combustion on the performance and exhaust emissions of a small SI engine.* SAE Technical Paper 2014-01-2620 – (ISSN 0148-7191).
- 2014 P 2564 MAGNO A., MANCARUSO E., VAGLIECO B.M. (2014)** *Endoscopic investigation of a combustion process in a small compression ignition engine fuelled with rapeseed methyl ester.* SAE Technical Paper 2014-01-2649 – (ISSN 0148-7191).
- 2014 P 2565 di IORIO S., CATAPANO F., SEMENTA P., VAGLIECO B.M., FLORIO S., REBESCO E., SCORLETTI P. TERNA D. (2014)** *Effect of octane number obtained with different oxygenated components on the engine performance and emissions of a small GDI engine.* SAE Technical Paper 2014-32-0038 – (ISSN 0148-7191).
- 2014 P 2566 di IORIO S., MAGNO F., MANCARUSO E., VAGLIECO B.M., ARNONE L., DAL BELLO L. (2014)** *Engine performance and emissions of a small diesel engine fuelled with various diesel/RME blends.* SAE Technical Paper 2014-32-0135 – (ISSN 0148-7191).
- 2014 P 2567 MONTANARO A., ALLOCCA L., SORGE U., ZHANG A., COSTA M. (2014)** *Simultaneous shadowgraph/mie scattering imaging of liquid and vapour phases of diesel sprays and validation of a numerical model.* SAE Technical Paper 2014-01-2744 – (ISSN 0148-7191).
- 2014 P 2568 MARCHITTO L., MEROLA S.S., TORNATORE C., VALENTINO G. (2014)** *Experimental study on the spray atomization of a multi-hole injector for spark ignition engines fuelled by gasoline and n-butanol.* SAE Technical Paper 2014-01-2743 – (ISSN 0148-7191).
- 2014 P 2569 MEROLA S.S., TORNATORE C., MARCHITTO L., VALENTINO G., IRIMESCU A. (2014)** *Optical properties investigation of alternative fuels containing carbon-based nanostructures.* SAE Technical Paper 2014-01-2765 – (ISSN 0148-7191).
- 2014 P 2573 SIANO D., VISCARDI M., NAPOLITANO P. (2014)** *Numerical and experimental acoustic performance investigations of a high-speed train composite sandwich panel.* WSEAS TRANSACTIONS on Applied and theoretical Mechanics 9, pp 290-300.
- 2014 P 2574 PRATI M.V., COSTAGLIOLA M.A., TOMMASINO C., DELLA RAGIONE L., MECCARIELLO G. (2014)** *Road grade influence on the exhaust emissions of a scooter fuelled with bioethanol/gasoline blends.* Transportation Research Procedia 3, pp 709-799.
- 2014 P 2575 ALLOCCA L., MANCARUSO E., MONTANARO M., SEQUINO L., VAGLIECO B.M. (2014)** *Evaluation of RME (rapeseed methyl ester) and mineral diesel fuels behaviour in quiescent vessel and EURO 5 engine.* Energy 77, pp 783-790.
- 2014 P 2576 SACCOCCIA V., PRATI M. V., BALSAMO F., DE SANTIS F., POLICE G. (2014)** *Performances and emissions of a small size diesel powered generator fuelled with vegetable oil and its water-in emulsions.* INT-NAM 2014 – 2th International Symposium on Naval Architecture and Maritime. Istanbul (Turkey).
- 2014 P 2577 DELLA RAGIONE L., MECCARIELLO G., SPERANDIO F., BASSO M., AL-SENED A. (2014)** *A development SWW tool for LCC model evaluation of a stage pre-IIIB to stage IIIB NRMM-compliant vehicle.* WIT Transactions on the Built Environment 155, pp 111-122.
- 2014 P 2578 SIANO D., BOZZA F., D'AGOSTINO D., PANZA M.A. (2014)** *The use of vibrational signals for on-board knock diagnostics supported by in-cylinder pressure analyses.* SAE Technical Paper 2014-32-0063 – (ISSN 0148-7191).
- 2014 P 2580 MEROLA S.S., TORNATORE C., IRIMESCU A., MARCHITTO L., VALENTINO G. (2014)** *Optical diagnostics of early flame development in a DISI engine fuelled with n-butanol and gasoline.* – 7th International Conference on Sustainable Energy & Environmental Protection - SEEP 2014 – Dubai (Emirati Arabi).
- 2014 P 2581 DI IORIO S., SEMENTA P., VAGLIECO B.M. (2014)** *analysis of combustion of methane and hydrogen-methane blends in small DISI engine using advanced diagnostics.* – 7th International Conference on Sustainable Energy & Environmental Protection - SEEP 2014 – Dubai (Emirati Arabi).
- 2014 P 2582 ALLOCCA L., LAZZARO M., MECCARIELLO G., MONTANARO A. (2014)** *Schlieren visualization of a GDI spray impacting on a heated wall: non-vaporizing and vaporizing evaluations* – 7th International Conference on Sustainable

Energy & Environmental Protection - SEEP 2014 – Dubai (Emirati Arabi).

2014 P 2583 VISCARDI M., SIANO D., NAPOLITANO P. (2014) Analytical and numerical models for the aerodynamic noise prediction of an high-speed train pantograph. International Journal of Mathematical Models and Methods in Applied Sciences 8, pp.350-363.

2014 P 2589 ARONNE A., AUSANIO G., BLOISI F., CALABRIA R., CALIFANO V., FANELLI E., MASSOLI P., VICARI L.R.M. (2014) Structural characterization of MAPLE deposited lipase biofilm. Applied Surface Science 320, pp 524-530.

2014 P 2590 ARONNE A., BLOISI F., CALABRIA R., CALIFANO V., DEPERO L.E., FANELLI E., FEDERICI S., MASSOLI P., VICARI L.R.M. (2014) Lipase biofilm deposited by Matrix assisted pulsed laser evaporation technique. Applied Surface Science, DOI: 10.1016/j.apsusc.2014.11.008

2014 P 2591 BELKADI A., TARLET D., MONTILLET A., BELLETTRE J., MASSOLI P. (2014) Measurement of collected polarised light across a liquid-liquid extensional flow – 10th International Conference on laser-light and Interactions with particles – Marseille (Francia).

2014 P 2601 MECCARIELLO G., DELLA RAGIONE L. (2014) Slope effect in emission evaluation to assess real pollutant factors. International Journal of Chemical, Nuclear, Metallurgical and Materials Engineering 8(10), pp.1075-1082.

2014 P 2605 CALIFANO V., BLOISE F., ARONNE A., FEDERICI S., NASTI L., DEPERO L.E., VICARI L.R.M. (2014) Biosensors applications of MAPLE deposited lipase. Biosensors 4, pp 329-339.

2014 P 2606 MARCHITTO L., MEROLA S.S., TORNATORE C., VALENTINO G. (2014) Characterization of bio-alcohol fuel spray from high-pressure injector for DISI engines. COST Europea, cooperation in Science and Technology – Belgrado (Serbia).

2014 P 2607 COSTA M., MASSAROTTI N., INDRIZZI V., RAIH B., YIN C., SAMEC N. (2014) Engineering bed models for solid fuel conversion process in grade-fired boilers. Energy 7, pp 244-253.

2014 P 2610 CAPASSO C., VENERI O. (2014) Experimental analysis on the performance of lithium based batteries for road full electric and hybrid vehicles. Applied Energy 136, pp 921-930.

2014 P 2612 PIERDOMINICI M., CECCHETTI S., TINARI A., MASTROFRANCESCO A., ALFE' M., GARGIULIO V., BEATRICE C., DI BLASIO G., CARPINELLI G., ORTONA E., GIOVANNETTI A., FIORITO S. (2014) Diesel exhaust particle exposure in vitro impacts T lymphocyte phenotype and function (DOI: 10.1186/s12989-014-0074-0), pp 14.

2014 P 2613 AGRETI F., BARISON S., BASSANI P., CAPALDI P., DEAMBROSIO S.M., FANCIULLI C., GONDOLINI A., MERCADELLI E., MORIN E., MONTAGNER F., SANSON A., TUISSI A., ZIN V., FABRIZIO M. (2014) New materials for an internal combustion co-generator prototype. LET'S 2014 –Leading Enabling Technologies for Societat Challenges – Bologna (Italia).

2014 P 2622 SIANO D., VISCARDI M., PANZA M.A. (2014) Experimental acoustic measurements on far field and near field conditions: characterization of a beauty engine cover. Advanced Fluid Mechanics and Heat & Mass Transfer 12, pp 50-57.

2014 P 2623 VISCARDI M., NAPOLITANO P., SIANO D. (2014) ANN tool for impact detection on composite panel for aerospace application. Applied Informatics and Communications 43, pp 148-156

2014 P 2624 CAPASSO C., IANNUZZI D., FERRERO L., VENERI O. (2014) Experimental study on a laboratory test bench for sea wave generation systems. Energy Procedia 61, pp. 1107-1110.

2014 P 2625 CAPASSO C., IANNUZZI D., VENERI O. (2014) DC charging station for electric and plug-in vehicles. Energy Procedia 61, pp. 1126-1129.

2014 P 2626 CAPASSO C., VENERI O. (2014) Experimental analysis of a zebra battery based propulsion system for urban bus under dynamic conditions. Energy Procedia 61, pp. 1138-1141.

2014 P 2629 SIANO D., PANZA M.A. (2014) Sensitivity analysis of knock indices and combustion noise evaluation for a S.I. engine. International Review on Modelling and Simulations (I.RE.MO.S.) 7 (6), pp. 1003-1010.

2014 P 2641 NAPOLITANO P., VISCARDI M., SIANO D. (2014) An innovative numerical modeling approach for train noise sources simulation – Recent Researches in electrical Engineering – pp. 13-20 (ISBN: 978-960-474-392-6).

2014 P 2646 ALLOCCA L., MONTANARO A., DI GIOIA R., BONANDRINI G. (2014) Spray characterization of a single-hole gasoline injector under flash boiling conditions. SAE Technical Paper 2014-32-0041 – (ISSN 0148-7191).

2014 P 2655 CAPALDI P. (2015) A high efficiency 10 kW microgenerator based on an Atkinson cycle internal combustion engine – Applied Thermal Engineering 71, pp 913-920.

2014 P 2676 NAPOLITANO P., VISCARDI M., SIANO D. (2014) An innovative numerical modeling approach for train noise sources simulation – Recent Researches in Electrical Engineering – pp. 13-20 (ISBN: 978-960-474-392-6).

2014 P 2717 MECCARIELLO G., DELLA RAGIONE L. (2014) Measurement and assess of gradient to evaluate the effect on real driving behaviour – Recent Advances in Energy Environment and Development - pp. 21-26 (ISBN: 978-1-61804-265-1).

2014 P 2718 DI IORIO S. (2014) Experimental investigation of ethanol-gasoline dual-fuel on particle emissions of a small engine. 18th ETH Conference on Combustion Generated Particles – Zurigo (Svizzera).

2014 P 2752 TARLET D., MURA E., JOSSET C., BELLETTRE J., ALOUIS C., MASSOLI P. (2014) Distribution of thermal energy of child-droplets issued from an optimal micro-explosion – International Journal of Heat and Mass Transfer 77, pp 1043-1054.

2014 P 2756 CALABRIA R., CHIARIELLO F., MASSOLI P., REALE F. (2014) Part load behaviour of a micro gas turbine fed with different fuels – Proceedings of ASME Turbo Expo 2014: Turbine Technical Conference and Exposition (GT 2014-26631) – Dusseldorf (Germania).

2014 P 2757 MIGLIARDINI F., DE LUCA V., CARGINALE V., ROSI M., CORBO P., SUPURAN C.T., CAPASSO C. (2014) Biometric CO₂ capture using a highly thermostable bacterial alfa-carbonic anhydrase immobilized on a polyurethane foam –

Journal of Enzyme Inhibition and Medical Chemistry 29 (1), pp. 146-150.

2014 P 2759 MIGLIARDINI F., CAPASSO C., CORBO P. (2014) Optimization of hydrogen feeding procedure in PEM fuel cell systems for transportation – International Journal of Hydrogen Energy 39, pp. 21746-21752.

2014 P 2771 IRIMESCU A., MARCHITTO L., MEROLA S.S., TORNATORE C., VELENTINO G. (2014) Evaluation of different methods for combined thermodynamic and optical analysis of combustion in spark ignition engines – Energy Conversion and Management 87, pp. 914-927.

2015

2015 P 2489 GIORGIO M., GUIDA M., PULCINI G. (2015) A condition-based maintenance policy for deteriorating units. An application to the cylinder liners of marine engine. Applied Stochastics Models in Business and Industry 31, pp. 339-348.

2015 P 2516 SIANO D. (2015) Transmission loss and gas dynamic noise analyses of a downsized spark ignition engine. Journal of Mechanical Engineering Science 229 (4), pp. 679-691.

2015 P 2543 TORNATORE C., IRIMESCU A., MARCHITTO L., MEROLA S.S., VALENTINO G. (2015) Combustion process analysis in a DISI engine fuelled with n-butanol through UV-VIS emission spectroscopy. IACSIT International Journal of Engineering and Technology 7 (3), pp.242-248.

2015 P 2552 BEATRICE C., DI BLASIO G., LAZZARO M., MANCARUSO E., MARIALTO R., SEQUINO L., VAGLIECO B.M. (2015) Investigation of the combustion in both methanol and optical diesel engine using a high-glycerol-ethers/diesel blends – International Journal of Engine Research 16(1), pp.38-51.

2015 P 2559 SIANO D., PANZA M.A., D'AGOSTINO D. (2015) Knock detection based on MAPO analysis, AR model and discrete wavelet transform applied to the in-cylinder pressure data: results and comparison. -SAE International Journal of Engines 8 (1) pp.13 – Sae Paper 2014-01-25471- (ISSN 1946-3960).

2015 P 2561 SIANO D., BOZZA F., TEODOSIO L., DE BELLIS V. (2015) A comparison between external and internal resonators employment to reduce the gas-dynamic noise of a SI engine.. - SAE International Journal of Engines 8 (1) pp.11 – Sae Paper 2014-01-2864- (ISSN 1946-3960).

2015 P 2592 MARCHITTO L., HAMPAL D., DABAGOV S.B., ALLOCCA L., ALFUSO S., POLESE C., LIEDI A.. (2014) GDI spray structure analysis by polycapillary X-ray u-tomography. International Journal of Multiphase Flow 70, pp. 15-21.

2015 P 2602 MANCARUSO E., VAGLIECO B.M. (2015) Spectroscopic analysis of the phases of premixed combustion in a compression ignition engine fuelled with diesel and ethanol. Applied Energy 143, pp. 164-175.

2015 P 2608 DI BLASIO G., VISCARDI M., BEATRICE C. (2015) DoE method for operating parameter optimization of a dual-fuel bioethanol/diesel light duty engine. –Journal of Fuels Article ID 674705 pp.14 (ISSN 2314-601X).

2015 P 2609 BELKADI A., TARLET D., MONTILLET A., BELLETTRE J., MASSOLI P. (2015) Water-in-oil emulsion in a microfluidic impinging flow at high capillary numbers. International Journal of multiphase flow 72, pp. 11-13.

2015 P 2611 CHAI J.H., PULCINI G. (2015) A dependent competing risks model for technological units subject to degradation phenomena and catastrophic failures. Quality and Reliability Engineering International (DOI: 1002/qre.1767) pp. 13.

2015 P 2618 GARGIULO V., ALFE' M., DI BLASIO G., BEATRICE C. (2015) Chemico-physical features of soot emitted from a dual-fuel ethanol-diesel system –Fuel 150, pp. 154-161.

2015 P 2621 CUNG K., MOIZ A., JOHNSON J., LEE S.Y., KWEON C.B., MONTANARO A. (2015) Spray-combustion interaction mechanism of multiple-injection under diesel engine conditions –Proceedings of the Combustion Institute 35, pp. 3061-3068.

2015 P 2627 CAPASSO C., HAMMADI M., PATALANO S., RE-NAUD R., VENERI O. (2015) RFL approach in the designing of power-train for road electric vehicles - Multiphysics Modelling and Simulation for Systems Design and Monitoring -pp. 249-258 (ISBN: 978-3-319-14532-7).

2015 P 2628 MAGNO A., MANCARUSO E., VAGLIECO B.M. (2015) Effect of a biodiesel blend on energy distribution and exhaust emissions of a small CI engine – Energy Conversion and Management 96, pp. 72-80.

2015 P 2633 MANCARUSO E., VAGLIECO B.M., SEQUINO L. (2015) Using 2nd infrared imaging for the analysis of non-conventional fuels combustion in a diesel engine -SAE International Journal of Engines 8 (4) pp.15 – Sae Paper 2015-01-1646- (ISSN 1946-3960).

2015 P 2634 DI IORIO S., SEMENTA P., VAGLIECO B.M. (2015) Experimental characterization of an ethanol DI - gasoline PFI and gasoline DI – gasoline PFI dual fuel small displacement SI engine - SAE Paper 2015-01-0848- (ISSN 0148-7191).

2015 P 2635 CATAPANO F., COSTA M., MARSEGLIA G., SEMENTA P., SORGE U., VAGLIECO B.M. (2015) Experimental and numerical investigation in a turbocharged GDI engine under knock condition by means of conventional and non-conventional methods -SAE International Journal of Engines 8 (2) pp.10 – Sae Paper 2015-01-0397- (ISSN 1946-3960).

2015 P 2636 GUIDA M., POSTIGLIONE F., PULCINI G. (2015) A random-effect model for long-term degradation analysis of solid oxide fuel cells – Reliability Engineering and System Safety 140, pp. 88-98.

2015 P 2637 IRIMESCU A., TORNATORE C., MEROLA S.S., VALENTINO G. (2015) Integrated diagnostics for combustion investigation in a DISI engine fuelled with butanol and gasoline at different load settings – Proceeding of the 10th International Colloquium Fuels – Conventional and Future energy for Automobiles -pp. 12 (ISBN: 978-3-943563-16-0).

2015 P 2638 MARCHITTO L., ALLOCCA L., HAMPAL D., ALFUSO S., DABAGOV S.B., LIEDI A., POLESE C. (2015) 3D structure of liquid sprays: X-ray u-radiography and tomography by polycapillary based technique – Nuclear instruments and methods in physics research B 355, pp. 285-288.

- 2015 P 2640 DELLA RAGIONE L., MECCARIELLO G. (2015)** *GPS Signal correction to improve vehicle location and related emission evaluation* –Journal of Statistical Science and Application 3 (3-4), pp.50-61.
- 2015 P 2642 COSTAGLIOLA M.A., PRATI M.V., MARIANI A., UNICH A., MORRONE B. (2015)** *Gaseous and particulate exhaust emissions of hybrid and conventional cars over legislative and real driving cycles* –Energy and Power Engineering 7(5), pp.181-192.
- 2015 P 2643 MONTANARO A., ALLOCCA L., ZHANG A., LEE S.Y. (2015)** *Correlation characteristics of laser-induced soot incandescence and flame luminosity in diesel spray combustion* – Proceeding of the 7th European Combustion Meeting ECM (2015) -pp. 6 (ISBN: 978-963-12-1257-0).
- 2015 P 2644 ALLOCCA L., COSTA M., MONTANARO A., SORGE U. (2015)** *GDI spray impact characterization by optical techniques for the assessment of 3D numerical models* –New Developments in Mechanics and Mechanical Engineering -pp. 10 (ISBN: 978-1-61804-288-0).
- 2015 P 2645 MONTANARO A., COSTA M., SORGE U., ALLOCCA L. (2015)** *GDI spray-wall interaction with numerical characterization: wall temperature influence* – Sae Paper 2015-01-0197 - pp.10.(ISSN 0148-7191).
- 2015 P 2647 ARPINO F., FRATTOLILLO A., CORTELLESA G., COSTA M., MAURO A., MASSAROTTI N.(2015)** *Experimental and numerical analysis of a waste-to-energy plant operation*–ASME –ATI-UIT 2015 Conference on Thermal Energy Systems: Production, Storage, Utilization and the Environment– Napoli (Italia).
- 2015 P 2648 COSTA M., MASSAROTTI N., MAURO A., ARPINO F., ROCCO V.(2015)** *CFD modelling of incineration plant*– ASME –ATI-UIT 2015 Conference on Thermal Energy Systems: Production, Storage, Utilization and the Environment– Napoli (Italia).
- 2015 P 2649 COSTA M., MARCHITTO L., MEROLA S.S., ROCCO V., SORGE U.(2015)** *Split injection in a GDI engine for energy efficiency increase and particulate matter reduction* - ASME –ATI-UIT 2015 Conference on Thermal Energy Systems: Production, Storage, Utilization and the Environment– Napoli (Italia).
- 2015 P 2650 COSTA M., LA VILLETTA M., MASSAROTTI N. (2015)** *Development of a thermo-chemical equilibrium model for biomass gasifiers with tar and char formation* - ASME –ATI-UIT 2015 Conference on Thermal Energy Systems: Production, Storage, Utilization and the Environment– Napoli (Italia).
- 2015 P 2651 COSTA M., LA VILLETTA M., MASSAROTTI N. (2015)** *Optimal tuning of a thermo-chemical equilibrium model for downdraft biomass gasifiers* – Chemical engineering Transactions 43- pp.6 .(ISSN 2283-9216).
- 2015 P 2652 MARCHITTO L., MEROLA S.S., TORNATORE C., VALENTINO G. (2015)** *Spray velocity vector distribution of alcohol fuels from a multi-hole in injector for direct injection spark ignition engines* - ASME –ATI-UIT 2015 Conference on Thermal Energy Systems: Production, Storage, Utilization and the Environment– Napoli (Italia).
- 2015 P 2653 BRUNI G., CORDINER S., MULONE V., NGUYEN H., ROCCO V., SPAGNOLO F. (2015)** *Domestic microgrid energy management: model predictive control strategies toward experimental validation* - ASME –ATI-UIT 2015 Conference on Thermal Energy Systems: Production, Storage, Utilization and the Environment– Napoli (Italia).
- 2015 P 2654 PELLEGRINIL, BEATRICE C., DI BLASIO G. (2015)** *Investigation of the effect of compression ratio on the combustion behaviour and emission performance of HVO blended diesel fuels in a single-cylinder light-duty diesel engine* - SAE Paper 2015-01-0898- (ISSN 0148-7191).
- 2015 P 2656 MEROLA S.S., IRIMESCU A., TORNATORE C., VALENTINO G. (2015)** *Normal and abnormal combustion investigations through UV-visible imaging in a DISI boosted engine fuelled with gasoline and PRFs*- SIA Powertrain: the low CO2 spark ignition engine of the future and its hybridization– Versailles (France).
- 2015 P 2657 BOSCARATO I., HICKEY N., KASPAR J., PRATI M.V., MARIANI A. (2015)** *Green shipping: marine engine pollution abatement using a combined catalyst/seawater scrubber system. 1. Effect of catalyst* – Journal of Catalysis 328, pp 248-257.
- 2015 P 2658 MAGNO A., MANCARUSO E., VAGLIECO B.M. (2015)** *Effects of both blended and pure biodiesel on waste heat recovery potentiality and exhaust emissions of a small CI (compression ignition) engine* – Energy 86, pp 661-671.
- 2015 P 2659 MAGNO A., MANCARUSO E., VAGLIECO B.M. (2015)** *In-cylinder combustion process analysis of a small compression ignition engine fuelled with both blended and pure biofuels* –Energy Procedia 66, pp.29-32.
- 2015 P 2660 MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2015)** *Analysis of spray injection in a light duty CR diesel engine supported by non-conventional measurements* – Fuel 158, pp 512-522.
- 2015 P 2661 COSTA M., MEROLA S.S., PIAZZULLO D., ROCCO V., VALENTINO G. (2015)** *Cycle-be-cycle variation of flame initiation and development in a GDI engine: numerical and experimental analysis*- SIA Powertrain: the low CO2 spark ignition engine of the future and its hybridization– Versailles (France).
- 2015 P 2662 GUIDA M., POSTIGLIONE F., PULCINI G. (2015)** *A bayesian estimation procedure for the non-homogeneous gamma process*- 9th International Conference on Mathematical Methods in Reliability – MMR 2015–Tokyo (Japan).
- 2015 P 2663 MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2015)** *2d infrared imaging at different wavelengths to characterize cycle-to-cycle variation of the combustion process in a diesel engine*- 10th Pacific Symposium on Flow Visualization and Image Processing –Naples (Italy).
- 2015 P 2664 ALLOCCA L., LAZZARO M., MECCARIELLO G., MONTANARO A. (2015)** *Schlieren/Mie-scattering images of a high-volatility fluid impacting on a heated surface: liquid/vapour phase detection* 10th Pacific Symposium on Flow Visualization and Image Processing –Naples (Italy).
- 2015 P 2665 CHA J.H., PULCINI G. (2015)** *Burn-in procedure based on a dependent covariate process* – Advanced in Applied Probability 47, pp 506-529.
- 2015 P 2666 DI IORIO S., MANCARUSO E., SEMENTA P., VAGLIECO B.M. (2015)** *A comprehensive analysis of the impact of biofuels on the performance and emissions from compression*

and spark-ignition engines – International Journal of Engine Research (DOI: 10.1177/148087415591924)

2015 P 2667 SIANO D., VISCARDI M., AIELLO R. (2015) *An hybrid FE/SEA approach for engine cover noise assessment* – Recent Researches in Mechanical and Transportation Systems -pp. 199-205 (ISBN: 978-1-61804-316-0).

2015 P 2668 SIANO D., AIELLO R., D'AGOSTINOO D. (2015) *On evaluation of commercial FEA software for acoustic performance of complex system* – Recent Researches in Mechanical and Transportation Systems -pp. 316-322 (ISBN: 978-1-61804-316-0).

2015 P 2669 LA VILLETTA M., MARIAS F., COSTA M., MASSAROTTI N. (2015) *A one-dimensional model for RDF thermochemical conversion on a moving grate of a full scale incineration plant*- The 28th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of energy Systems– Pau (France).

2015 P 2670 COSTA M., SORGE U., MEROLA S.S., IRIMESCU A., LA VILLETTA M., ROCCO V. (2015) *Split injection in a HOS GDI engine for high combustion efficiency and low pollutants emission*- The 28th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of energy Systems– Pau (France).

2015 P 2673 MECCARIELLO G., DELLA RAGIONE L. (2015) *Statistical evaluation of driving cycle with slope*. IES 2015– International Conference on Innovation and Society Statistical methods for services assessment – Cagliari (Italia).

2015 P 2674 PULCINI G. (2015) *Incorrect modelling of the failure process of minimally repaired systems under random conditions: the effect on the maintenance costs* – Reliability Engineering and System Safety 144, pp 178-182.

2015 P 2675 GIORGIO M., GUIDA M., PULCINI G. (2015) *A new class of markovian processes for deteriorating units with state dependent increments and covariates* – IEEE Transactions on Reliability 64 (2) , pp 562-578.

2015 P 2677 SIANO D., PRATI M.V., COSTAGLIOLA M.A., PANZA M.A. (2015) *Evaluation of noise level inside cab of a bi-fuel passenger vehicle* –WSEAS Transactions on Applied and Theoretical Mechanics 10, pp.220-226.

2015 P 2678 KONSTANDOPOULOS A.G., KOSTOGLU M., BEATRICE C., DI BLASIO G., IMREN A., DENBRATT I. (2015) *Impact of combination of EGR, SCR and DPF technology for the low-emission rail diesel engines* –Emission Control Science and Technology 1, pp.213-225.

2015 P 2679 SIANO D., PANZA M.A. (2015) *An experimental analysis of vehicle exhaust noise signals by means of order tracking approach* – Recent Advances in Systems -pp. 502-507 (ISBN: 978-1-61804-321-4).

2015 P 2681 NAVA IGUAL S., MARCHITTO L., MEROLA S.S., TORNATORE C., VALENTINO G. (2015) *Characterization of n-butanol and gasoline spray from a multihole injector using phase doppler anemometry* – Atomization and Sprays 25 (12) , pp 1047-1062.

2015 P 2682 GECHELE G., MENEGUZZER C., ROSSI R., GASTALDI M. DELLA LUCIA L., PRATI M.V. (2015) *Emissioni veicolari alle intersezioni stradali: analisi comparativa di diverse*

tipologie mediante osservazioni di campo – La regolazione delle intersezioni stradali in ambito urbano: tecniche di analisi e di progetto – Cagliari (Italy).

2015 P 2683 PRATI M.V., COSTAGLIOLA M.A., QUARANTA F., MURENA F. (2015) *Assessment of ambient air quality in the port of Naples* – Journal of the Air & Waste Management Association 65 (8) , pp 970-979.

2015 P 2684 DI GAETA A., HOYOS VELASCO C.I., MONTANARO U. (2015) *Cycle-by-cycle adaptive force compensation for the soft-landing control of an electro-mechanical engine valve actuator* –Asian Journal of Control 17 (5), pp.1707-1724.

2015 P 2685 CAMERETTI M.C., TUCCILLO R., REALE F., PI-AZZESI R. (2015) *Numerical simulation of liquid bio-fuel combustion in an EGR equipped micro gas turbine* –American Journal of Applied Science 12 (7), pp.463-478.

2015 P 2686 CALABRIA R., CHIARIELLO F., MASSOLI P., REALE F. (2015) *CFD analysis of turbec T100 combustor at part load by varying fuels* – ASME Turbo Expo 2015: Turbine Technical Conference and Exposition - pp. 12 (ISBN: 978-0-7918-5679-6).

2015 P 2688 VALENTINO G., MEROLA S.S., MARCHITTO L., TORNATORE C. (2015) *Butanol-diesel blend spray combustion investigation by UV-visible flame emission in a prototype single cylinder compression ignition engine* –SAE International Journal of Engines 8 (5), pp.14 – SAE Paper 2015-24-2435 (ICE 2015) - (ISSN 1946-3936).

2015 P 2689 COSTA M., PIAZZULLO D., SORGE U., MEROLA S.S., IRIMESCU A., ROCCO V. (2015) *Image processing for early flame characterization and initialization of flamelet models of combustion in a GDI engine*– SAE Paper 2015-24-2405, pp.11 (ICE 2015) - (ISSN 0148-7191).

2015 P 2690 COSTA M., CATAPANO F., MARSEGLIA U., SORGE U., SEMENTA P., VAGLIECO B.M. (2015) *Experimental and numerical investigation of the effect of split injections on the performance of a GDI engine under lean operation*– SAE Paper 2015-24-2413, pp.11 (ICE 2015) - (ISSN 0148-7191).

2015 P 2691 MONTANARO A., ALLOCCA L., MECCARIELLO G., LAZZARO M. (2015) *Schlieren and mie scattering imaging system to evaluate liquid and vapor contours of a gasoline spray impacting on a heated wall*– SAE Paper 2015-24-2473pp.10 (ICE 2015) - (ISSN 0148-7191).

2015 P 2692 COSTA M., SEMENTA P., SORGE U., CATAPANO P., MARSEGLIA G., VAGLIECO B.M. (2015) *Split injection in a GDI engine under knock conditions: an experimental and numerical investigation*– SAE Paper 2015-24-2432, pp.11 (ICE 2015) - (ISSN 0148-7191).

2015 P 2693 DE SIMIO L., IANNACCONE S., GAMBINO M., GIGLIO V., RISPOLI N., BARBOLINI G., CATANESE D., FERRARI M., LO CASALE W. (2015) *Use of ionization current to estimate CO rate in a small 2-stroke SI engine*– SAE Paper 2015-24-2425, pp.12 (ICE 2015) - (ISSN 0148-7191).

2015 P 2694 CATAPANO F., DI IORIO S., SEMENTA S., VAGLIECO B.M. (2015) *Experimental analysis of a gasoline PFI-metnane DI dual fuel and an air assisted combustion of a transparent small displacement SI engine*– SAE Paper 2015-24-2459, pp.8 (ICE 2015) - (ISSN 0148-7191).

- 2015 P 2695** DI BLASIO G., BELGIORNO G., BEATRICE C., FRAIOLI V., MIGLIACCIO M. (2015) *Experimental evaluation of compression ratio influence on the performance of a dual-fuel methane-diesel light-duty engine* –SAE International Journal of Engines 8 (5), pp.13 – SAE Paper 2015-24-2460 (ICE 2015) - (ISSN 1946-3936).
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- 2015 P 2697** ABAGNALE C., CAMERETTI M.C., CIARAVOLE U., TUCCILLO R., IANNACCONE S. (2015) *Dual fuel engine at variable operating conditions: a numerical and experimental study* – SAE Paper 2015-24-2411, pp.11 (ICE 2015) - (ISSN 0148-7191)
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- 2015 P 2702** MANCARUSO E., MARIALTO R., SEQUINO L., VAGLIECO B.M., CARDONE M. (2015) *Investigation of the injection process in a research CR diesel engine using different blends of propane-diesel fuel* -SAE Paper 2015-24-2477, pp.13 (ICE 2015) - (ISSN 0148-7191).
- 2015 P 2703** CATAPANO P., DI IORIO S., SEMENTA P., VAGLIECO B.M. (2015) *Effects of ethanol and gasoline blending and dual fueling on engine performance and emissions* -SAE Paper 2015-24-2490, pp.7 (ICE 2015) - (ISSN 0148-7191).
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2016

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- diesel engine*– SAE Technical paper 2016-01-0810 - pp. 15- (ISSN 0148-7191).
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- 2016 P 2819 ALLOCCA L., LAZZARO M., MECCARIELLO G., MONTANARO A. (2016)** *Schlieren visualization of a GDI spray impacting on a heated wall: non-vaporizing and vaporizing evolutions* – Energy 108, pp 93-98.
- 2016 P 2820 GIORGIO M., GUIDA M., POSTIGLIONE F., PULCINI G. (2016)** *A Bayesian approach for the transformed gamma degradation process* – 22nd International Conference on Computational Statistics – COMPSTAT 2016– Oviedo (Spain).
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- 2016 P 2822 COSTA M., CATAPANO F., SEMENTA P., SORGE U., VAGLIECO B.M. (2016)** *Mixture preparation and combustion in a GDI engine under stoichiometric or lean charge: an experimental and numerical study on an optically accessible engine*– Applied Energy 180, pp 86-103.
- 2016 P 2823 MANCARUSO E., SEQUINO L., EAGLE W.E., MUSCULUS M.P.B., MALBEC L.M.. (2016)** *Infrared emission detection as a fuel-vapor penetration diagnostic*– THIESEL 2016 Conference on Thermo-and Fluid Dynamic Processed in Direct Injection Engines – pp. 3 (ISBN: 978-84-9048-535-4).

- 2016 P 2824 CATAPANO F., DI IORIO S., SEMENTA P., VAGLIECO B.M. (2016)** *Optimization of the CNG direct injection in a small research SI engine* –THIESEL 2016 Conference on Thermo-and Fluid Dynamic Processed in Direct Injection Engines pp. 15 (ISBN: 978-84-9048-535-4).
- 2016 P 2827 SIANO D., VISCARDI M., PANZA M.A. (2016)** *Automotive materials: an experimental investigation of an engine bay acoustic performance* – Energy Procedia 101, pp.598-605.
- 2016 P 2828 DE BELLIS V., BOZZA F., SIANO D., VALENTINO G. (2016)** *A modeling study of cyclic dispersion impact on fuel economy for a small size turbocharged SI engine*– SAE International Journal of Engines 9(4), pp. 13 SAE Technical paper 2016-01-2230– (ISSN 1946-3946).
- 2016 P 2829 ZAMANI H., HOSSEINI V., AFSHIN H., ALLOCCA L., BALOO M. (2016)** *Large eddy simulation of GDI single-hole and multi-hole injector sprays with comparison of numerical break-up models and coefficients*– Journal of Applied Fluid Mechanics 9 (2), pp 1013-1022.
- 2016 P 2830 SIANO D., VALENTINO G., BOZZA F. IACOBACCI A., MARCHITTO L.(2016)** *A non-linear regression technique to estimate from vibrational engine data the instantaneous in cylinder pressure peak and related angular position*– SAE Technical paper 2016-01-2178 – pp.13 (ISSN 0148-7191).
- 2016 P 2831 ANCILLOTTI E., BRUNO R., PALUMBO S., CAPASSO C., VENERI O. (2016)** *Experimental set-up of DC PEV charging station supported by open and interoperable communication technologies* –International Symposium on Power Electronics, Electrical Drive, Automation and Motion – SPEEDAM 2016– Capri (Italy).
- 2016 P 2832 MONTANARO A., ALLOCCA L., KIM J., MIN K. (2016)** *Experimental and numerical analysis of a spray impinging on a flat wall: liquid/vapor phase detection* –FISITA 2016 World Automotive Congress– Busan (Korea).
- 2016 P 2833 MONTANARO A., ALLOCCA L., LAZZARO M., MECCARIELLO G. (2016)** *Liquid and vapor spray characterization from a multi-hole gasoline fuel injector under-like conditions* – FISITA 2016 World Automotive Congress– Busan (Korea).
- 2016 P 2834 MENEGUZZER C., GASTALDI M., ROSSI R., GECHELE G., PRATI M.V.(2016)** *Comparison of exhaust emissions at intersections under traffic signal versus roundabout control using an instrumented vehicle.* World Conference on Transport Research- WCTR 2016 – Shanghai (China).
- 2016 P 2835 DI IORIO S., MAGNO A., MANCARUSO E., VAGLIECO B.M. (2016)** *Diesel/Methane dual fuel strategy to improve environmental performance of energy power systems*– International Journal of Heat and Technology 34 (2), pp S581-S588.
- 2016 P 2836 CAPASSO C., HAMMADI M., PATALANO S., REAUD R., VENERI O. (2016)** *A multi-domain modelling and verification procedure within MBSE approach to design propulsion systems for road electric vehicles*– Mechanics & Industry 18 (107), pp 8.
- 2016 P 2837 MONTANARO A., ALLOCCA L., LAZZARO M., MECCARIELLO G.(2016)** *Vapor and Liquid phases of the ECN spray G impacting on a flat wall at engine-like conditions*– SAE Technical paper 2016-01-2199 – pp.7 (ISSN 0148-7191).
- 2016 P 2838 PESCE F., VASSALLO A., BEATRICE C., DI BLASIO G., BELGIORNO G., AVOLIO G., KASTNER O., LEUTERITZ U. (2016)** *Exceeding 100 kW/l milestone: the next step towards defining high performance diesel engines* – 25th Aachen Colloquium Automobile and Engine Technology 2016– Aachen (Germany).
- 2016 P 2839 VISCARDI M., ARENA M., SIANO D.(2016)** *Design and testing of a prototype foam for lightweight technological applications*– International Journal of Mechanics – pp.383-395.
- 2016 P 2842 CATAPANO F., DI IORIO S., SEMENTA P., VAGLIECO B.M. (2016)** *Analysis of energy efficiency of methane and hydrogen-methane blends in a PFI/DI SI research engine*– Energy 117, pp 378-387.
- 2016 P 2843 BARONE M., LOMBARDI S., CONTINILLO G., SEMENTA P., VAGLIECO B.M. (2016)** *Application of the optical methods for the experimental analysis of turbulent flame propagation in a transparent engine* – International conference of Computational Methods in Sciences and Engineering 2016– Atene (Grecia).
- 2016 P 2844 MECCARIELLO G., DELLA RAGIONE L. (2016)** *Statistical evaluation of driving cycle with slope variability*– Electronic Journal of applied Statistical Analysis 9 (4), pp. 610-622.
- 2016 P 2845 GIORGIO M., PULCINI G. (2016)** *Degradation processes: a case where statistical tools are unable to choose between two models based on different physical assumptions.* - 9th International Conference of ERCIM WG on Computational and Methodological Statistics (CMStatistics 2016)– Seville (Spain).
- 2016 P 2847 ABAGNALE C., CARDONE M., GARGIULO B., MARIALTO R. (2016)** *Ideal specific work of rotary compressors: a new approach*– Energy Procedia 101, pp. 710-717.
- 2016 P 2848 ABAGNALE C., CARDONE M., IODICE P., MARIALTO R., STRANO S., TERZO M., VORRARO G. (2016)** *Design and development of an innovative E-Bike*– Energy Procedia 101, pp. 774-781.
- 2016 P 2852 SEQUINO L. (2016)** *An Innovative Optical Diagnostics for Injection Process in CI Engines* –LAP Lambert Academic Publishing pp. 119 (ISBN: 978–3-659-96276-9).
- 2016 P 2861 DI FRAIA S., MASSAROTTI N., VANOLI L., COSTA M. (2016)** *Thermo-economic analysis of a novel cogeneration system for sewage sludge treatment* – Energy 115, pp 1560-1571.
- 2016 P 2864 M.COSTA, M. LA VILLETTA, N.MASSAROTTI, D.PIAZZULLO, V.ROCCO (2016)** *A one-dimensional steady model for downdraft biomass gasifiers* – Fourth International Conference Computational Methods for Thermal Problems – ThermaComp 2016– Atlanta (USA).
- 2016 P 2865 L. DELLA RAGIONE, G. MECCARIELLO (2016)** *Statistical approach to identify Naples city's real driving cycle referring to the Worldwide harmonized light duty test cycle (WLTC) framework* –WIT Transactions on Ecology and the Environment, vol.20 pp. 12 (ISBN: 978-1-78466-153-3).
- 2016 P 2868 COSTA M., SORGE U., MEROLA S., IRIMESCU A., LA VILLETTA M., V.ROCCO (2016)** *Split injection in a homogeneous stratified gasoline direct injection engine for high combus-*

tion efficiency and low pollutants emission – Energy 117, pp 405-415.

2016 P 2873 V. MOCCIA, J. D'ALESSIO (2016) *Burning behavior of selected biogas and syngas mixtures* – XXXIX Meeting of the Italian Section of the Combustion Institute— Napoli (Italia).

2016 P 2874 E. ANCILLOTTI, R. BRUNO, S. PALUMBO, C. CAPASSO, O. VENERI (2016) *Experimental set-up of DC PEV charging station supported by open and interoperable communication technologies* - International Symposium on Power Electronics, electrical Drives, Automation and Motion **2016** — Capri (Italia).

2016 P 2894 IRIMESCU A., MEROLA S.S., VALENTINO G. (2016) *Application of an entrainment turbulent combustion model with validation based on the distribution of chemical species in an optical spark ignition engine*– Applied Energy 162, pp. 908-923.

2016 P 2895 MEROLA S.S., TORNATORE C., IRIMESCU A., MARCHITTO L., VALENTINO G. (2016) *Optical diagnostics of early flame development in a DISI (direct injection spark ignition) engine fuelled with n-butanol and gasoline*– Energy 108, pp 50-62.

2016 P 2897 CONTI R., PEZZOLESI L., PISTOCCHI R., TORRI C., MASSOLI P., FABBRI D. (2016) *Photobioreactor cultivation and catalytic pyrolysis of the microalga desmodesmus coomunis (chlorophyceae) for hydrocarbons production by HZM-5 zeolite cracking*– Bioresource Technology 222, pp. 148-155.

2016 P 2897 CONTI R., PEZZOLESI L., PISTOCCHI R., TORRI C., MASSOLI P., FABBRI D. (2016) *Photobioreactor cultivation and catalytic pyrolysis of the microalga desmodesmus coomunis (chlorophyceae) for hydrocarbons production by HZM-5 zeolite cracking*– Bioresource Technology 222, pp. 148-155.

2016 P 2910 MARCHITTO L., MEROLA S.S., TORNATORE C., VALENTINO G. (2016) *an experimental investigation of alcohol/diesel fuel blends on combustion and emissions in a single-cylinder compression ignition engine*– SAE Technical paper 2016-01-0738 – pp.11 (ISSN 0148-7191).

2016 P 2968 AURIEMMA M., IAZZETTA (2016) *Viscosity of alumina water-based nanofluids modelling by artificial neural network*– Indian Journal of Science and Technology 9 (48), pp 7.

2017

2017 P 2803 LAGUEUX P., TREMBLAY P. SAVARY S., FARLEY V., MANCARUSO E., SEQUINO L. (2017) *High speed infrared imaging for analysis of a diesel engine supplied with a premixed methane-air charge*– Measurement Automation Monitoring 63 (2), pp.60-64.

2017 P 2840 BUONO D., SIANO D., FROSINA E., SENATORE A. (2017) *Gerotor pump cavitation monitoring and fault diagnosis using vibration analysis through the employment of autoregressive-moving-average technique*– Simulation Modelling Practice and Theory 71, pp 61-82.

2017 P 2846 MARSEGLIA G., COSTA M., CATAPANO F., SEMENTA P., VAGLIECO B.M. (2017) *Study about the link between injection strategy and knock onset in an optically accessible multi-cylinder GDI engine*– Energy Conversion and Management 134, pp 1-19.

2017 P 2849 PRATI M.V., BEATRICE C., COSTAGLIOLA M.A., GUIDO C.. (2017) *Influenza degli eventi rigenerativi sulle emissioni di particolato di veicoli diesel dotati di DPF (diesel particulate filter)*. – Expert Panel for Polluting Emissions Reduction - EXPAPER– Roma (Italia).

2017 P 2850 DI IORIO S., MAGNO A., MANCARUSO E., VAGLIECO B.M. (2017) *Analysis of the effects of diesel/methane dual fuel combustion on nitrogen oxides and particle formation through optical investigation in a real engine*– Fuel Processing Technology 150, pp 200-210.

2017 P 2851 CAPUANO D., COSTA M., DI FRAIA S., MASSAROTTI N., VANOLI L. (2017) *Direct use of waste vegetable oil in internal combustion engines*– Renewable and Sustainable Energy Reviews 69, pp 759-770.

2017 P 2866 LA VILLETTA M., COSTA M., MASSAROTTI N. (2017) *Modelling approaches to biomass gasification: a review with emphasis on the stoichiometric method*– Renewable and Sustainable Energy Reviews 74, pp. 71-88.

2017 P 2867 DIETRICH D.L., CALABRIA R., MASSOLI P., NAYAGAM V., WILLIAMS A. (2017) *Experimental observations of the low-temperature burning of decane/hexanol droplets in microgravity*– Combustion Science and Technology 189 (3), pp. 520-554.

2017 P 2891 CATAPANO F., DI IORIO S., SEMENTA P., VAGLIECO B.M. (2017) *Optimization of the compressed natural gas direct injection in a small research spark ignition engine*– International Journal of Engine Research 18 (1-2), pp. 118-130.

2017 P 2892 IRIMESCU A., DI IORIO S., MEROLA S.S., SEMENTA P., VAGLIECO B.M. (2017) *Correlation between simulated volume fraction burned using a quasi-dimensional model and flame area measured in an optically accessible SI engine*– SAE Technical paper 2017-01-0545 – pp.14 (ISSN 0148-7191).

2017 P 2893 D'ADAMO A., BREDA S., FONTANESI S., IRIMESCU A., MEROLA S.S., TORNATORE C. (2017) *A RANS knock model to predict the statistical occurrence of engine knock*– Applied Energy 191, pp. 251-263.

2017 P 2896 CATAPANO F., DI IORIO S., LUISE L., SEMENTA P., VAGLIECO B.M. (2017) *In-cylinder soot formation and exhaust particle emissions in a small displacement spark ignition operating with ethanol mixed and dual fuelled with gasoline*– SAE Technical paper 2017-01-0653 – pp.8 (ISSN 0148-7191).

2017 P 2898 AMIRANTE R., DISTASO E., DI IORIO S., SEMENTA P., TAMBURRANO P., VAGLIECO B.M., REITZ R.D. (2017) *Effects of natural gas composition on performance and regulated, greenhouse gas and particulate emissions in spark-ignition engines*–Energy Conversion and Management 143, pp. 338-347.

2017 P 2899 MIGLIACCIO M., MONTANARO A., BEATRICE C., NAPOLITANO P., ALLOCCA L., FRAIOLI V. (2017) *Experimental and numerical analysis of a high-pressure outwardly opening hollow cone spray injector for automotive engines*–Fuel 508, pp. 508-519.

2017 P 2900 NAPOLITANO P., GUIDO C., BEATRICE C., DEL GIACOMO N. (2017) *Application of a dual fuel diesel-CNG configuration in a Euro 5 automotive diesel engine*– SAE Technical paper 2017-01-0769 – pp.12 (ISSN 0148-7191).

- 2017 P 2901 DI BLASIO G., BELGIORNO G., BEATRICE C. (2017)** *Parametric analysis of compression ratio variation effects on thermodynamic. Gaseous pollutant and particle emissions of a dual-fuel CN4-diesel duty engine*– SAE Technical paper 2017-01-0764 – pp.12 (ISSN 0148-7191).
- 2017 P 2902 FRAIOLI V., BEATRICE C., DI BLASIO G., BELGIORNO G. MIGLIACCIO M.NA (2017)** *Multidimensional simulations of combustion in methane-diesel dual-fuel light duty engines*– SAE Technical paper 2017-01-0568 – pp.14 (ISSN 0148-7191).
- 2017 P 2903 ALLOCCA L., MONTANARO A., AMORESANO A., LANGELLA G., NIOLA V., QUAREMBA G. (2017)** *Chaos theory approach as advanced technique for GDI*– SAE Technical paper 2017-01-0839 – pp.9 (ISSN 0148-7191).
- 2017 P 2904 BEATRICE C., MIGLIACCIO M.NA, MONTANARO A., FRAIOLI V., NAPOLITANO P., ALLOCCA L. (2017)** *Experimental and numerical analysis of a high-pressure outwardly opening hollow cone spray injector for automotive engines* SAE Technical paper 2017-01-0840 – pp.9 (ISSN 0148-7191).
- 2017 P 2905 IRIMESCU A., MEROLA S.S., TORNATORE C., VALENTINO G. (2017)** *Effect of coolant temperature on air-fuel mixture formation and combustion in an optical direct injection spark ignition engine fuelled with gasoline and butanol*– Journal of the Energy Institute 90 , pp. 452-465.
- 2017 P 2906 AMIRANTE R., DISTASO E., NAPOLITANO M., TAMBURRANO P., DI IORIO S., SEMENTA P., VAGLIECO B.M., REITZ R.D. (2017)** *Effects of lubricant oil on particulate emissions from port-fuel and direct-injection engine*– International Journal of Engine Research , pp. 15 (on-line).
- 2017 P 2908 DI GAETA A., REALE F., CHIARIELLO F., MASSOLI P. (2017)** *A dynamic model of a 100 kW micro gas turbine fuelled with natural gas and hydrogen blends and its application in a hybrid energy grid*–Energy 129 , pp. 299-320.
- 2017 P 2911 IACOBACCI A., MARCHITTO L., VALENTINO G. (2017)** *Water injection to enhance performance and emissions of a turbocharged gasoline engine under high load condition*– SAE International Journal of Engines 10 (3) - Sae paper 2017-01-0660 – pp.10 (ISSN 1946-3944).
- 2017 P 2912 MARCHITTO L., VALENTINO G., CHIATTO M., DE LUCA L. (2017)** *Water spray flow characteristics under synthetic jet driven by a piezoelectric actuator*– Journal of Physics: Conf. Series 778– 012005, pp.14.
- 2017 P 2913 BRANCATI E., ROCCA E., SIANO D., VISCARDI M. (2017)** *Experimental vibro-acoustic analysis of the gear rattle induced by multi-harmonic excitation*– Journal of Automobile Engineering – Proc. IMechE Part D, pp.12.
- 2017 P 2914 MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2017)** *Evaluation of the vaporization energy of a fuel spray in a research engine using infrared imaging and 1D model* – ICHMT International Symposium on Advances in Computational Heat Transfer – Napoli (Italy).
- 2017 P 2917 CHIATTI G., CHIVOLA O., RECCO E., MAGNO A., MANCARUSO E. VAGLIECO B.M. (2017)** *Accelerometer measurement for MFB evaluation in multi-cylinder diesel engine* – Energy 133, pp. 843-850.
- 2017 P 2918 MENEGUZZER C., GASTALDI M., ROSSI R., GECHELE G., PRATI M.V. (2017)** *Comparison of exhaust emissions at intersections under traffic signal versus roundabout control using an instrumented vehicle*– Transportation Research Procedia 25C, pp. 1597-1612.
- 2017 P 2919 MURENA F., PRATI M.V. (2017)** *Catalytic conversion of CO₂ to CH₄ with a Ru catalyst: application at vehicle exhaust*– Emission Control Science and Technology (DOI 10.1007/s40825-017-0067-1), pp. 10.
- 2017 P 2920 RICCIO A., CHIANESE E., TIRIMBERIO G., PRATI M.V. (2017)** *Emission factors of inorganic ions from road traffic: a case study from the city of Naples (Italy)*– Transportation Research Part D 54, pp. 239-249.
- 2017 P 2921 GIORGIO M., MELE A., PULCINI G. (2017)** *A perturbed Gamma process with non-Gaussian state-dependent errors* –Safety and Reliability – Theory and Applications – Cepin & Bris (Eds), Taylor & Francis Group, pp. 615-623 (ISBN: 978-1-138-62937-0).
- 2017 P 2922 BALDANTONI D., MORELLI R., BELLINO A., PRATI M.V., ALFANI A., DE NICOLA F. (2017)** *Anthracene and benzo(a)pyrene degradation in soil is favoured by compost amendment: perspectives for a bioremediation approach*– Journal of Hazardous Materials 339, pp. 395-400.
- 2017 P 2923 M. GIORGIO, A.MELE, G.PULCINI (2017)** *A noisy gamma degradation process with degradation dependent non-gaussian measurement error* – 10th International Conference on Mathematical Methods in Reliability – Grenoble (France).
- 2017 P 2924 TOSUN E., AYDIN K., MEROLA S.S., IRIMESCU A. (2017)** *Estimation of operational parameters for a direct injection turbocharged spark ignition engine by using regression analysis and artificial neural network*– Thermal Science 21 (1B), pp. 401-412.
- 2017 P 2925 D'ADAMO A., BREDA S., IACCARINO S., BERNI F., FONTANESI S., ZARDIN B., BORCHI M., IRIMESCU A., MEROLA S.S. (2017)** *Development of a RANS-based knock model to infer the knock probability in a research spark-ignition engine*– SAE International Journal of Engines 10 (3) - Sae paper 2017-01-0551 – pp.18 (ISSN 1946-3944).
- 2017 P 2926 IACCARINO S., BREDA S., D'ADAMO A., FONTANESI S., IRIMESCU A., MEROLA S.S. (2017)** *Numerical simulation and flame analysis of combustion and knock in a DISI optically accessible research engine*– SAE International Journal of Engines 10 (2) - Sae paper 2017-01-0555 – pp.17 (ISSN 1946-3944).
- 2017 P 2927 BREDA S., D'ADAMO A., FONTANESI S., D'ORRICO F., IRIMESCU A., MEROLA S.S., GIOVANNONI N. (2017)** *Numerical simulation of gasoline and n-butanol combustion in an optically accessible research engine*– SAE International Journal of Fuels & Lubricants 10 (1) - Sae paper 2017-01-0546 – pp.22 (ISSN 1946-3960).
- 2017 P 2928 MEROLA S.S., DI IORIO S., IRIMESCU A., SEMENTA P., VAGLIECO B.M. (2017)** *Spectroscopic characterization of energy transfer and thermal conditions of the flame kernel in a spark ignition engine fuelled with methane and hydrogen* – International Journal of Hydrogen Energy 42, pp. 13276-13288.
- 2017 P 2929 IRIMESCU A., DI IORIO S., MEROLA S.S. SEMENTA P., VAGLIECO B.M. (2017)** *Numerical investigation of engine speed and fuel composition effects convective heat transfer in a spark ignition engine fuelled with methane-hydrogen blends* –

ICHMT International Symposium on Advances in Computational Heat Transfer – (CHT-17-223) –Napoli (Italy).

2017 P 2930 COSTA M., CURCIO C., PIAZZULLO D., ROCCO V., TUCCILLO R. (2017) Numerical simulation of refuse-derived fuel thermochemical conversion in a waste-to-energy plant - –10th International Conference on Sustainable Energy and Environmental Protection, Waste Energy and Management –Bled (Slovenia).

2017 P 2931 BEATRICE C., DI BLASIO G., BELGIORNO G. (2017) Experimental analysis of functional requirements to exceed the 100 kW/l in high-speed light-duty diesel engines –Fuel 207, pp. 591-601.

2017 P 2933 VALENTINO G., SIANO D., BOZZA F., MARCHITTO L., TORNATORE C. (2017) Effect of water injection on performance, gas emission and combustion noise of a 2-cylinder turbocharged SI engine experimental and numerical analysis - –40th Meeting of the Italian Section of the Combustion Institute –Roma (Italia).

2017 P 2934 DIMITRAKOPOULOS N., BELGIORNO G., TURNER M., TUNESTAL P., DI BLASIO G., BEATRICE C. (2017) PPC Operation with low RON gasoline fuel. A study on load range on a Euro 6 light duty diesel engine - The ninth International Conference on Modelling and Diagnostics for Advanced Engine Systems (COMODIA 2017) - Okoyama (Japan).

2017 P 2935 DI BLASIO G., BELGIORNO G. BEATRICE C. (2017) Effects on Performances, emissions and particle size distributions of a dual fuel (methane-diesel) light-duty engine varying the compression ratio –Applied Energy 204, pp. 726-740.

2017 P 2936 TORNATORE C., SIANO D., MARCHITTO L., IACOBACCI A., VALENTINO G., BOZZA F. (2017) Water injection: a technology to improve performance and emissions of downsized turbocharged spark ignited engines– SAE International Journal of Engines 10 (5) - Sae paper 2017-24-0062 – pp.11 (ISSN 1946-3936).

2017 P 2937 CIRILLO D., COSTA M., LA VILLETTA M., PIAZZULLO D., PRATI M.V., ROCCO V. (2017) Experimental validation of a one-dimensional steady model for downdraft biomass gasifiers - International Symposium on Advances in Computational Heat Transfer – Napoli (Italy).

2017 P 2938 GIORGIO M., PULCINI G. (2017) Modelling degradation data using the gamma process and its generalizations – ENBIS 2017– Napoli (Italia).

2017 P 2940 IRIMESCU A., DI IORIO S., MEROLA S., SEMENTA P., VAGLIECO B.M. (2017) On the entrainment velocity and characteristic length scales used for quasi-dimentional turbulent combustion modelling in spark ignition engines– SAE paper 2017-24-0002 – pp.16 (ISSN 0148-7191).

2017 P 2941 BOZZA F., DE BELLIS V., GIANNATTOASIO P., TEODOSIO L., MARCHITTO L. (2017) Extension and validation of a 1D model applied to the analysis of a water injected turbocharged spark ignited engine at high loads and over a WLTP driving cycle– SAE International Journal of Engines 10 (4) - Sae paper 2017-24-0014 – pp.13 (ISSN 1946-3936).

2017 P 2942 PIAZZULLO D., COSTA M., RA Y., ROCCO V., ULLAL A. (2017) Development of a reduced chemical mechanism for combustion of gasoline-biofuels- Sae paper 2017-24-0039 – pp.13 (ISSN 0148-7191).

2017 P 2943 PIAZZULLO D., COSTA M., ALLOCCA L., MONTANARO A., ROCCO V. (2017) A 3CFD simulation of GDI sprays accounting for heat transfer effects on wallfilm formation– SAE International Journal of Engines 10 (4) - Sae paper 2017-24-0041 – pp.10 (ISSN 1946-3936).

2017 P 2944 TAGLIALATELA F., LAVORNIA M., DI IORIO S., MANCARUSO E., VAGLIECO B.M. (2017) Real time prediction of particle sizing at the exhaust of a diesel engine by using a neural network model– SAE International Journal of Engines 10 (4) - Sae paper 2017-24-0051 – pp.7 (ISSN 1946-3936).

2017 P 2945 BREDI S., D'ADAMO A., FONTANESI S., DEL PECCIA M. MEROLA S., IRIMESCU A. (2017) CFD optimization of n-butanol mixture preparation and combustion in an research GDI engine– SAE paper 2017-24-0063 – pp.14 (ISSN 0148-7191).

2017 P 2946 DI BLASIO G., BEATRICE C., BELGIORNO G., PESCE F.C., VASSALLO A. (2017) Functional requirements to exceed the 100kW/l milestone for high power density automotive diesel engines– SAE International Journal of Engines 10 (5) - Sae paper 2017-24-0072 – pp.12 (ISSN 1946-3936).

2017 P 2947 BEATRICE C., BELGIORNO G., DI BLASIO G., MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2017) Analysis of a prototype high-pressure “hollow cone spray” diesel injector performance in optical and metal research – SAE paper 2017-24-0073 – pp.12 (ISSN 0148-7191).

2017 P 2948 DE SIMIO L., GAMBINO M. IANNACCONE S. (2017) Effect of low temperature combustion on particle and gaseous emission of a dual fuel light duty engine – SAE paper 2017-24-0081 – pp.9 (ISSN 0148-7191).

2017 P 2949 BELGIORNO G., DIMITRAKOPOULOS N., DI BLASIO G., BEATRICE C., TUNER M., TUNESTAL P. (2017) Parametric analysis of the effect of pilot quantity, combustion phasing and EGR on efficiencies of a gasoline PPC light-duty engine – SAE paper 2017-24-0084 – pp.14 (ISSN 0148-7191).

2017 P 2950 CATAPANO F., DI IORIO S., SEMENTA P., VAGLIECO B.M. (2017) Particle formation and emissions in an optical small displacement SI engine dual fuelled with CNG DI and gasoline PFI – SAE paper 2017-24-0092 – pp.12 (ISSN 0148-7191).

2017 P 2951 CATAPANO F., SEMENTA P., VAGLIECO B.M. (2017) Characterization of knock tendency and onset in a GDI engine by means of conventional measurements and a non-conventional flame dynamics optical analysis– SAE International Journal of Engines 10 (5) - Sae paper 2017-24-0099 – pp.12 (ISSN 1946-3936).

2017 P 2952 MONTANARO A., ALLOCCA L., AMORESANO A., LANGELLA G. (2017) A dynamic system “approach ofor the experimental characterization of a multy-hole spray – SAE paper 2017-24-0106 – pp.7 (ISSN 0148-7191).

2017 P 2953 MONTANARO A., ALLOCCA L., ROCCO V., COSTA M., PIAZZULLO D. (2017) Transient heat effects on a gasoline spray impact against hot surfaces: experimental and numerical study– SAE paper 2017-24-0107 – pp.8 (ISSN 0148-7191).

2017 P 2954 MONTANARO A., MIGLIACCIO M., ALLOCCA L., BEATRICE C., FRAIOLI V., IANNIELLO R. (2017) Outward-opening hollow-cone spray characterization by experimental

and numerical approach in evaporative and non-evaporative conditions - SAE paper 2017-24-0108 – pp.8 (ISSN 0148-7191).

2017 P 2955 MANCARUSO E., SEQUINO L. VAGLIECO B.M., CAMERETTI M.C. (2017) *Experimental and numerical characterization of diesel injection in single-cylinder research engine with rate shaping strategy* - SAE paper 2017-24-0113 – pp.8 (ISSN 0148-7191).

2017 P 2956 MECCARIELLO G., DELLA RAGIONE L. (2017) *Statistical determination of local driving cycles based on experimental campaign as WLTC real approach*– SAE paper 2017-24-0138 – pp.10 (ISSN 0148-7191).

2017 P 2957 AMIRANTE R., DISTASO E., DI IORIO S., PETTINICCHIO D., SEMENTA P., TAMBURRANO P., VAGLIECO B.M. (2017) *Experimental investigation on the sources of particulate emission within a natural gas spark-ignition engine*– SAE paper 2017-24-0141 – pp.11 (ISSN 0148-7191).

2017 P 2958 BEATRICE C., COSTAGLIOLA M.A., GUIDO C., NAPOLITANO P., PRATI M.V. (2017) *How much regeneration events influence particle emissions of DPF-equipped vehicles?*– SAE paper 2017-24-0144 – pp.12 (ISSN 0148-7191).

2017 P 2959 SIANO D., PANZA M.A. (2017) *Sound quality analysis of the powertrain booming noise in a diesel passenger car*– Energy Procedia 126, pp. 971-978.

2017 P 2960 SIANO D., FROSINA E., SENATORE A. (2017) *Diagnostic process by using vibrational sensors for monitoring cavitation phenomena in a getoror pump used for automotive applications*– Energy Procedia 126, pp. 1115-1122.

2017 P 2961 CALIFANO V., MIGLIARDINI F., ARONNE A., CIMINO S., CORBO P., GAELE M.F. (2017) *Carbon dioxide capture by adsorption on amine incorporated hexagonal mesoporous silica*– Advanced Science Letters 23 (6), pp. 5903-5905.

2017 P 2962 VISCARDI M., ARENA M., SIANO D. (2017) *An innovative viscoelastic treatment for the internal noise reduction in an regional aircraft* - Italian Association of Aeronautics and Astronautics – XXIV International Conference – Palermo-Enna (Italy).

2017 P 2963 VISCARDI M., COPPOLA T., QUARANTA F., RIZZUTO E., SIANO D. (2017) *On field experimental characterisation of the ship sources of acoustic pollution with-in a commercial harbour* - 24th International Congress on sound and vibration (ICSV24) – London (England).

2017 P 2964 VISCARDI M., ARENA M., SIANO D. (2017) *Vibro-acoustic response of a turboprop cabin with innovative sidewall viscoelastic treatment* - 24th International Congress on sound and vibration (ICSV24) – London (England).

2017 P 2965 CHIATTO M., MARCHITTO L., VALENTINO G., DE LUCA L. (2017) *Influence of piezo-driven synthetic jet on water spray behavior*–Atomization and Sprays 27(8), pp. 691-706.

2017 P 2966 SEQUINO L., MANCARUSO E., VAGLIECO B.M. (2017) *Visible and infrared imaging for in-cylinder visualization of diesel jet liquid and vapor phases with varying swirl motion* - ITC User Conference 2017 – Coventry (UK).

2017 P 2967 S. DI IORIO, E. MANCARUSO B.M. VAGLIECO, R.M. WAGNER (2017) *ICE 2017 – 13th International Conference on engines & vehicles – Abstracts* – SAE INTERNATIONAL SECTION NAPLES (ISBN: 978-88-907870-5-8).

2017 P 2969 DI STASIO S. (2017) *Soot with 1013 cm⁻³ high concentration and 25 Å radius of gyration as detected by small-angle X-ray scattering in a premixed ethylene-air flame at sooting threshold*–Journal of Aerosol Science 110, pp. 11-24.

2017 P 2970 DI STASIO S. (2017) *Zn-ZnO core-shell nanotubes: synthesis, characterization and use as sub-ppm NO₂ nanostructured gas sensors*–Advanced Science Letters 23, pp. 5951-5954.

2017 P 2971 DELLA RAGIONE L., MECCARIELLO G. (2017) *Urban driving cycles and vehicle emissions evaluation through statistical analysis on real kinematic data* – 8th Scientific Conference on Innovation & Society – statistical methods for evaluation and quality– Naples (Italy).

2017 P 2972 EAGLE W.E., ROBERTS G., MUSCULUS M.P.B., MALBEC L.M., SEQUINO L., MANCARUSO E. (2017) *Comparing infrared emission from hydrocarbon C-H stretch during direct injection with and without reaction in an optical heavy duty engine* - 10th U.S. National Combustion Meeting organized by the Eastern States Section of the Combustion Institute – College Park – Maryland (USA).

2017 P 2973 GANON M.A., MANCARUSO E., SEQUINO L., TREMBLAY P., SAVARY S., GUYOT E., MORTON V. (2017) *Chemical imaging in a diesel-ignited dual-fuel optical engine using high-speed infrared narrowband imaging* - 10th U.S. National Combustion Meeting organized by the Eastern States Section of the Combustion Institute – College Park – Maryland (USA).

2017 P 2974 CONTINO M., MONTANARO A., ALLOCCA L., CARDONE G. (2017) *IR Thermography flow visualization of single and multi-hole spray impinging*– 14th FLUCOME 217– USA.

2017 P 2975 MONTANARO A., MIGLIACCIO M., ALLOCCA L., FRAIOLI V., BEATRICE C. (2017) *Spray characterization from high-pressure outwardly opening hollow cone injector for automotive engines* - 40th Meeting of the Italian Section of the Combustion Institute – Roma (Italy).

2017 P 2977 ALFUSO S., ALLOCCA L., DABAGOV S., HAMPAL D., LIEDI A., MARCHITTO L., POLESE C. (2017) *3-D structure of a gasoline spray by polycapillary X-ray tomography*– ICX24-24th International Congress on X-ray Optics and Microanalysis – Trieste (Italy).

2017 P 2978 MORONE A., ALLOCCA L., GAMBARDELLA U. (2017) *Laser Deposition of Magnetic Nanoparticles* – FisMat 2017 – Trieste (Italy).

2017 P 2979 ALLOCCA L., GAMBARDELLA U., MORONE A. (2017) *Laser Fabrication of Magnetic SmCo Nanoparticles* – 5th Italian Conference on Magnetism – Assisi (Italy). (POSTER).

2017 P 2980 T. COPPOLA, F. QUARANTA, E. RIZZUTO, D. SIANO, M. VISCARDI (2017) *Caratterizzazione acustica di navi in porto* – Associazione Italiana di Acustica, 44° Convegno Nazionale – Pavia (Italy).

2017 P 2981 MARCHITTO L., CALABRIA R., TORNATORE C., BELLETRE J., MASSOLI P., MONTILLET A., VALENTINO G. (2017) *Performance and emissions of a CI engine fueled with water diesel emulsion through microchannels emulsification* – 10th Mediterranean Combustion Symposium – Napoli (Italy).

2017 P 2982 SIRIGNANO M., CONTURSO M., MAGNO A., DI IORIO S., MANCARUSO E., VAGLIECO B.M., D'ANNA A. (2017) *Evidence of sub-10 nm particle emitted from a diesel engine – 10th Mediterranean Combustion Symposium – Napoli (Italy).*

2018 P 2987 ACAMPORA L., SEQUINO L., NIGRO G., CONTINILLO G., VAGLIECO B.M. (2017) *Numerical model of spray combustion in a single cylinder diesel engine – AIP Conference Proceedings 1906 ,pp. 4 (ISSN 0094-243X).*

2017 P 3025 ALLOCCA L., GAMBARDELLA U., MORONE A. (2017) *Laser deposition of magnetic SmCo nanoparticles – E-MRS 2017– Strasburgo (France).*

2017 P 3027 BIANCHINI E., FABBRI D., ROMBOLA' A.G, TORRI C., GUERRINI F., PISTOCCHI R., CALABRIA R., MASSOLI P. (2017) *Pyrolysis of spirulina and zeolite cracking over HZSM-5. An analytical investigation on the chemical route of bio-oil from cultivation to combustion – Journal of analytical and applied pyrolysis 126, pp. 230-238.*

2017 P 3045 RUBINO L., CAPASSO C., VENERI O. (2017) *Review on plug-in electric vehicle charging architectures integrated with distributed energy sources for sustainable mobility – Applied Energy 207, pp. 438-464.*

2017 P 3060 DIMITRAKOPOULOS, BELGIORNO G., TUNER M., TUNESTAL P., DI BLASIO G., BEATRICE C. (2017) *PPC Operation with low RON gasoline fuel, A study on load range on a Euro 6 light duty diesel engine - The Ninth International conference on Modeling and Diagnostics for Advanced Engine Systems (COMODIA 2017) – Okayama– (Japan).*

2018

2018 P 2983 F. TAGLIALATELA SCAFATI, M.LAVORNIA, E.MANCARUSO, B.M. VAGLIECO (2018) *Non-linear systems and circuits in internal combustion engines – Springer (ISBN: 978-3-319-67140-6).*

2018 P 2984 LAZZARO M., IANNIELLO R. (2018) *Image processing of vaporizing GDI sprays: a new curvature-based approach – Measurements Science and Technology 29, pp. 16.*

2018 P 2985 F.MURENA, M.V. PRATI, F. QUARANTA (2018) *Assessment of the impact of ship emissions on the air quality in Naples – Taylor Francis Group (ISBN: 978-0-8153-7993-5).*

2018 P 2986 GIORGIO M., PULCINI G. (2018) *A new state-dependent degradation process and related model misidentification problems – European Journal of Operational Research 267, pp. 1027-1038.*

2018 P 2988 CONTINO M., MONTANARO A., ALLOCCA L., CARDONE G. (2018) *Thermal investigation of a GDI multi-hole spray impact on a heated thin foil – 3rd Thermal and Fluids Engineering Conference (TFEC), Fort Lauderdale, FL, USA.*

2018 P 2989 PAREDI D., LUCCHINI T., D'ERRICO G., ONORATI A., MONTANARO A., ALLOCCA L., IANNIELLO R. (2018) *Combined experimental and numerical investigation of the ECN spray G under different engine-like conditions – SAE paper 2018-01-0281– pp.15 (ISSN 0148-7191).*

2018 P 2990 ALLOCCA L., BARTOLUCCI L., CORDINER S., LAZZATO M., MONTANARO A., MULONE V., ROCCO V. (2018) *ECN spray G injector: assessment of numerical modelling accuracy– SAE paper 2018-01-0306– pp.10 (ISSN 0148-7191).*

2018 P 2991 MAROTEAUX F., VAGLIECO B.M., MANCARUSO E. (2018) *N-heptane ignition delay time with temperature criterion for HCCI combustion – Fuel 225, pp. 483-489.*

2018 P 2994 SIRIGNANO M., CONTURSO M., MAGNO A., DI IORIO S., MANCARUSO E., VAGLIECO B.M., D'ANNA A. (2018) *Evidence of sub-10 nm particles emitted from a small-size diesel engine – Experimental Thermal and Fluid Science 95, pp. 60-64.*

2018 P 2995 MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2018) *Temperature measurements of the piston optical window in a research compression ignition engine via thermography and templogs– SAE paper 2018-01-0083– pp.8 (ISSN 0148-7191).*

2018 P 2996 MANCARUSO E., SEQUINO L., VAGLIECO B.M., CAMERETTI M.C., DE ROBBIO R., TUCCILLO R. (2018) *CFD analysis of the combustion process in dual-fuel diesel engine– SAE paper 2018-01-0257– pp.13 (ISSN 0148-7191).*

2018 P 2997 WANG Z., STAMATOGLU P., LUNDGREN M., LUISE L., VAGLIECO B.M., ANDERSSON O., ALDEN M., RICHTER M. (2018) *Ultra-high speed fuel tracer PLIF imaging in a heavy-duty optical PPC engine– SAE paper 2018-01-0904– pp.15 (ISSN 0148-7191).*

2018 P 2998 MARCHITTO L., TORNATORE C., COSTAGLIOLA M.A., VALENTINO G. (2018) *Impact of Ethanol-gasoline port injected on performance and exhaust emissions of a turbo-charged SI engine– SAE paper 2018-01-0914– pp.10 (ISSN 0148-7191).*

2018 P 2999 MARCHITTO L., CALABRIA R., TORNATORE C., BELLETTRE J., MASSOLI P., MONTILLET A., VALENTINO G. (2018) *Optical investigations in a CI engine fueled with water in diesel emulsion produced through microchannels – Experimental Thermal and Fluid Science 95, pp. 96-103.*

2018 P 3000 IRIMESCU A., MEROLA S.S., DI IORIO S., VAGLIECO B.M. (2018) *Investigation on the effects of butanol and ethanol fueling on combustion and PM emissions in an optically accessible DISI engine–Fuel 216, pp. 121-141.*

2018 P 3001 IRIMESCU A., DI IORIO S., MEROLA S.S., SEMENTA P., VAGLIECO B.M. (2018) *Evaluation of compression ratio and blow-by rates for spark ignition engines based on in-cylinder pressure trace analysis – Energy Conversion and Management 162, pp. 98-108.*

2018 P 3002 DEL PECCHIA M., BREDI S., D'ADAMO A., FONTANESI S., IRIMESCU A., MEROLA S.S.(2018) *Development of chemistry-based laminar flame speed correlation for part-load SI conditions and validation in a GDI research engine – SAE paper 2018-01-0174– pp.22 (ISSN 0148-7191).*

2018 P 3003 MARTINEZ S., LACAVA P., CURTO P.L., IRIMESCU A., MEROLA S.S.(2018) *Effect of hydrogen enrichment on flame morphology and combustion evolution in a SI engine under lean burn conditions – SAE paper 2018-01-1144– pp.15 (ISSN 0148-7191).*

2018 P 3004 IRIMESCU A., MEROLA S.S., MARTINEZ S. (2018) *Influence of engine speed and injection phasing on lean com-*

bustion for different dilution rates in an optically accessible wall guided spark ignition engine – SAE paper 2018-01-1421– pp.25 (ISSN 0148-7191).

2018 P 3005 BEATRICE C., FRAIOLI V., GUIDO C., NAPOLITANO P. (2018) *Analysis of engine control parameters effect to minimize GHG emissions in a dual fuel NG/Diesel light duty* – Joint Meeting the German and Italian Sections of the Combustion Institute (ISBN: 978-88-88104-22-5).

2018 P 3006 GUIDO C., NAPOLITANO P., FRAIOLI V., BEATRICE C., DEL GIACOMO N. (2018) *Assessment of engine control parameters effect to minimize GHG emissions in a dual fuel NG/Diesel light duty engine* – SAE paper 2018-01-0266 pp.14 (ISSN 0148-7191).

2018 P 3007 MONTANARO A., ALLOCCA L. (2018) *Study of liquid and vapour phases of a GDI spray* – Joint Meeting the German and Italian Sections of the Combustion Institute (ISBN: 978-88-88104-22-5).

2018 P 3008 CATAPANO F., DI IORIO S., SEMENTA P., VAGLIECO B.M. (2018) *Particle formation and emissions from dual fueled CNG DI and gasoline PFI SI research engine* – Joint Meeting the German and Italian Sections of the Combustion Institute (ISBN: 978-88-88104-22-5).

2018 P 3009 SIANO D., PANZA M.A., BADAN J.P. (2018) *Prediction of interior vehicle noise by means of NARX neural networks* – SAE paper 2018-01-1538 pp.8 (ISSN 0148-7191).

2018 P 3010 TORNATORE C., BOZZA F., DE BELLIS V., TEODOSIO L., VALENTINO G., MARCHITTO L. (2018) *Experimental and numerical investigation on the effects of low pressure cooled EGR on knock tendency and performance of a downsized turbocharged SI engine* – Renewable and sustainable energy developments beyond 2030 (ISBN: 978-1-90398-62-7).

2018 P 3011 MARCHITTO L., TORNATORE C., COSTAGLIOLA M.A., IACOBACCI A., VALENTINO G. (2018) *Effects of water injection on fuel efficiency and gaseous and PN emissions in a downsized turbocharged SI engine* – Journal of Energy Engineering 144 (4), pp. 8.

2018 P 3012 GIORGIO M., GUIDA M., PULCINI G. (2018) *The transformed gamma process for degradation phenomena in presence of unexplained forms of unit-to-unit variability* – Quality and Reliability Engineering International 34 (4), pp. 543-562.

2018 P 3013 GIORGIO M., GUIDA M., POSTIGLIONE F., PULCINI G. (2018) *Bayesian estimation and prediction for the transformed gamma degradation process* – Quality and Reliability Engineering International 34 (7), pp. 1315-1328.

2018 P 3014 CAPUTO C., CIRILLO D., COSTA M., LA VILLETTA M., TUCCILLO R., VILLANI R. (2018) *Numerical analysis of a combined heat and power generation technology from residual biomasses* – 26th European Conference and Exhibition- Copenhagen, Denmark.

2018 P 3015 LA VILLETTA M., COSTA M., CIRILLO D., MASSAROTTI N., VANOLI L. (2018) *Performance analysis of a biomass powered micro-cogeneration system based on gasification and syngas conversion in a reciprocating engine* – Energy Conversion and Management 175, pp.33-48.

2018 P 3016 PIAZZULLO D., COSTA M., PETRANOVIC Z., VUJANOVIC M., LAVILLETTA M., CAPUTO C., CIRILLO D. (2018) *CFD*

modelling of a spark ignition internal combustion engine fuelled with syngas for a mCHP system – Chemical Engineering Transactions 65, pp. 13-18.

2018 P 3017 MONTANARO A., ALLOCCA L., MECCARIELLO G., IANNIELLO R. (2018) *Fuel distribution of a GDI spray impacting on a heated wall: liquid and vapour phases* – ICLASS 2018 – 14th Triennial Conference on Liquid Atomization and Spray Systems, Chicago, USA.

2018 P 3018 COSTA M., PIAZZULLO (2018) *Biofuel powering of internal combustion engines: production routes, effect on performance and CFD modelling of combustion* – Frontiers in Mechanical Engineering 4, pp. 14.

2018 P 3019 COSTA M., CURCIO C., PIAZZULLO D., ROCCO V., TUCCILLO R. (2018) *RDF incineration modelling through thermos-chemical conversion and gaseous combustion coupling* – Energy 161, pp.974-987.

2018 P 3020 PIAZZULLO D., COSTA M., ALLOCCA L., MONTANARO A., ROCCO V. (2018) *Schlieren and mie scattering techniques for the ECN "spray G" characterization and 3D CFD model validation* – International Journal of Numerical Methods for Heat & Fluid Flow 28 (2), pp.498-515.

2018 P 3021 ALLOCCA L., SIANO D., MONTANARO A., IANNIELLO R., PANZA M.A. (2018) *Acoustic and imaging correlations of a GDI single-hole spray* – ICLASS 2018 – 14th Triennial Conference on Liquid Atomization and Spray Systems, Chicago, USA.

2018 P 3022 GUIDO C., FRAIOLI V., NAPOLITANO P., BEATRICE C., DEL GIACOMO N. (2018) *Investigation on the effect of engine control parameters to optimize a light duty engine in dual fuel NG/Diesel configuration* – International Conference and Exhibition SIA POWERTRAIN, Rouen, France.

2018 P 3023 SIANO D., CITARELLA R., ARMENTANI E. (2018) *Simulation of a multi-cylinder engine vibrational behaviour* – International Journal of Vehicle Noise and Vibration 14 (2), pp. 101-123.

2018 P 3024 MONTANARO A., ALLOCCA L., BEATRICE C., IANNIELLO R. (2018) *Outwardly opening hollow-cone diesel spray characterization under different ambient conditions* – SAE PAPER 2018-01-1694, pp. 9 (ISSN 0148-7191).

2018 P 3026 MOUSSA M., TARLET D., MASSOLI P., BELLETTRE J. (2018) *Parametric study of the micro-explosion occurrence of W/O emulsions* – International Journal of Thermal Sciences 133, pp.90-97.

2018 P 3028 MANCARUSO E., SEQUINO L., VAGLIECO B.M., MAROTEAUX F. (2018) *Experimental measurements of piston temperature and evaluation of heat flux in engine at transient conditions* – THIESEL 2018 – Conference on thermos and Fluid Dynamic Processes in Direct Injection engines – Valencia, Spain.

2018 P 3029 SEQUINO L., BELGIORNO G., DI BLASIO G., MANCARUSO E., BEATRICE C., VAGLIECO B.M. (2018) *Assessment of the new features of a prototype high-pressure "hollow cone spray" diesel injector by means of engine performance characterization and visualization* – SAE PAPER 2018-01-1697, pp. 10 (ISSN 0148-7191).

- 2018 P 3030 SIANO D., PANZA M.A. (2018)** *Diagnostic method by using vibration analysis for pump fault detection*– Energy Procedia 148, pp. 10-17.
- 2018 P 3031 MAMZAN M., ZANDEGIACOMO DE ZORZI E., FRENI E., FRAZZICA A., VAGLIECO B.M., ZENTILOMO L., DELUCA C. (2018)** *Potential of thermal storage for hot potable water distribution in cruise ships*– Energy Procedia 148, pp. 1105-1112.
- 2018 P 3032 SIANO D., PANZA M.A. (2018)** *Employment of an auto regressive moving average model for on-board knock detection of a spark ignited engine*– International conference on Uncertainty in Structural Dynamics (ISBN: 9789073802995).
- 2018 P 3036 CALIFANO V., SANNINO F., COSTANTINI A., AVOSSA J., CIMINO S., ARONNE A. (2018)** *Wrinkled silica nanoparticles: efficient matrix for Beta-Glucosidase immobilization*– Journal of Physical Chemistry C 122 (15), pp.8373-8379.
- 2018 P 3042 TORNATORE C., CALABRIA R., MAR HITTO L., BELLETRE J., MASSOLI P., MONTILLET A., VALENTINO G. (2018)** *Optical analysis of combustion and soot formation in a CI engine fuelled with water in diesel emulsion through micro-channels emulsification*– Journal of Physics:Conference Series 1110, pp. 12.
- 2018 P 3043 CAPASSO C., LAURIA D., VENERI O. (2018)** *Experimental evaluation of model-based control strategies of sodium-nickel chloride battery plus supercapacitor hybrid storage systems for urban electric vehicles*– Applied Energy 228, pp.2478-2489.
- 2018 P 3044 MARINO P., RUBINO G., RUBINO L., CAPASSO C., VENERI O. (2018)** *A case study of a DC-microgrid for the smart integration of renewable sources with the urban electric mobility* – 2018 IEEE (International Symposium on Power Electronics, Electrical Drives, Automation and Motion), (ISBN: 978-1-5386-4941-1).
- 2018 P 3046 COLASANTI T., FIORITO S., ALESSANDRI C., SERAFINO A., ANDREOLA F., BARBATI C., MORELLO F., ALFE' M., DI BLASIO G., GARGIULO V., VOMERO M., CONTI F., VALESINI G. (2018)** *Diesel exhaust particles induce autophagy and citrullination in normal human bronchial epithelial cells*– Cell Death and Disease 9 (11) pp.15.
- 2018 P 3048 REALE F., IANNOTTA V., TUCCILLO R. (2018)** *Numerical study of micro gas turbine integrated with a supercritical CO₂ brayton cycle turbine* – Proceeding of ASME Turbo Expo 2018 Turbomachinery Technical Conference and Exposition (ISBN: 978-0-7918-5117-3).
- 2018 P 3049 CALABRIA R., CHIARIELLO F., MASSOLI P., REALE F. (2018)** *A biogas fueled micro gas turbine using dual-fuel approach* – Proceeding of ASME Turbo Expo 2018 Turbomachinery Technical Conference and Exposition (ISBN: 978-0-7918-5117-3).
- 2018 P 3050 B. GIECHASKIEL, S.CASADEI, M.MAZZINI, M.SAMMARCO, G.MONTABONE, R.TONELLI, M.DEANA, G.COSTI, F. DI TANNO, PRATI M.V., M.CLAIRLOTTE, A. DI DOMENICO (2018)** *Inter-laboratory correlation exercise with portable emissions measurement systems (PEMS) on chassis dynamometers*– Applied Sciences 8 (11), pp. 12.
- 2018 P 3051 PRATI M.V., COSTAGLIOLA M.A., PAGLIARA F., MASTANTUONO E. (2018)** *Idling vehicles emissions and fuel consumption in urban use: influence of the stop & start technology* – 2018 IEEE International Conference on Environment and Electrical Engineering (ISBN: 978-1-5386-5186-5).
- 2018 P 3052 D.ANTONOV, J.BELLETTRE, D.TARLET, P.MASSOLI, O.VYSOKOMORNAYA, M.PISKUNOV (2018)** *Impact of holer materials on the heating and explosive breakup of two-component droplets*– Energies 11 (12) pp.17.
- 2018 P 3053 BALSAMO F., CAPASSO C., VENERI O. (2018)** *Performance evaluation of an all-electric waterbus supplied by hybrid energy storage systems* – 2018 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (ISBN: 978-1-5386-4941-1).
- 2018 P 3054 CAPASSO C., VENERI O., ASSANTE D. (2018)** *A novel platform for the experimental training on internet of energy*– 2018 IEEE Global engineering Education Conference (ISBN: 978-1-5386-2957-4).
- 2018 P 3055 BELGIORNO G., DIMITRAKOPOULOS N., DI BLASIO G., BEATRICE C., TUNESTAL P., TUNER M. (2018)** *Effect of the engine calibration parameters on gasoline partially premixed combustion in a light-duty Euro 6 engine*– Applied Energy 228, pp.2221-2234.
- 2018 P 3056 SHAMUN S., BELGIORNO G., DI BLASIO G., BEATRICE C., TUNER M., TUNESTAL P. (2018)** *Performance and emissions of diesel-biodiesel-ethanol blends in a light duty compression ignition engine*– Applied Thermal Engineering 145, pp.444-452.
- 2018 P 3057 BELGIORNO G., DI BLASIO G., BEATRICE C. (2018)** *Parametric study and optimization of the main engine calibration parameters and compression ratio of a methane-diesel dual fuel engine*– Fuel 222, pp.821-840.
- 2018 P 3058 VASSALLO A., BEATRICE C., DI BLASIO G., BELGIORNO G., AVOLIO G., PESCE F.C. (2018)** *The key role of advanced, flexible fuel injection systems to match the future CO₂ targets in an ultra-light mid-size diesel engine* - SAE PAPER 2018-37-0005, pp. 15 (ISSN 0148-7191).
- 2018 P 3059 IRIMESCU A., CATAPANO F., DI IORIO S., MEROLA S., SEMENTA P., VAGLIECO B.M.(2018)** *Quasi-dimensional simulation of downsizing and inverter application for efficient part load operation of spark ignition engine driven micro-cogeneration systems* - SAE PAPER 2018-37-0061, pp. 19 (ISSN 0148-7191).
- 2018 P 3061 PENARANDA A., MARTINEZ BOGGIO S.D., LACAVA P.T., MEROLA S., IRIMESCU A. (2018)** *Characterization of flame front propagation during early and late combustion for methane-hydrogen fueling of an optically accessible SI engine*– International Journal of Hydrogen Energy 43, pp.23538-23557.
- 2018 P 3062 IRIMESCU A., CATAPANO F., DI IORIO S., SEMENTA P. (2018)** *Influence of combustion efficiency on the operation of spark ignition engines fuelled with methane and hydrogen investigated in a quasi-dimensional simulation framework* - SAE PAPER 2018-37-0012, pp. 15 (ISSN 0148-7191).
- 2018 P 3063 MEROLA S.S., IRIMESCU A. (2018)** *Effect of electrode geometry on flame kernel development in a DI SI engine*– Proceedings ANMA 2018 Proceedings ANMA 2018 – 4th

International Congress of Automotive and Transport Engineering – pp. 481-493 -(ISBN: 978-3-319-94408-1).

2018 P 3064 IRIMESCU A., MEROLA S.S. (2018) *Influence of dwell time for double injection strategies in a wall guided GDI engine*– Proceedings ANMA 2018 Proceedings ANMA 2018 – 4th International Congress of Automotive and Transport Engineering – pp. 494-502 -(ISBN: 978-3-319-94408-1).

2018 P 3065 MOUSSA O., FRANCELINO D., TARLET D., MASSOLI P., BELLETTRE J. (2018) *Micro-explosion characterization using optical diagnostics during the heating of W/O emulsion droplets* –ICLASS 2018 – 14th Triennial Conference on Liquid Atomization and Spray Systems, Chicago, USA.

2018 P 3066 MOUSSA O., TARLET D., MASSOLI P., BELLETTRE J. (2018) *Etude paramétrique de la micro-explosion de gouttes d'émulsion eau/huile* –26^{ème} Congrès de la Société Française de Thermique, Pau, (France).

2018 P 3067 MONTANARO A., ALLOCCA L. (2018) *Experimental analysis of a GDI spray impacting on a heated wall*– Proceedings for the DIPSI Workshop 2018: Droplet Impact Phenomena & Spray Investigations (ISBN: 978-88-9713-27-1).

2018 P 3068 CAPUTO C., CIRILLO D., COSTA M., LA VILLETTA M., TUCCILLO R., VILLANI R. (2018) *Numerical analysis of a combined heat and power generation technology from residual biomasses* – Journal of Energy and Power Engineering 12 (6), pp. 300-321.

2019

2019 P 3037 MANCARUSO E., PETROZZIELLO C., SEQUINO L., VAGLIECO B.M. (2019) *Characterization of pure blended bio-diesel spray in a compression ignition engine by means of advanced diagnostics and ID model*– Fuel 239, pp.1102-1114.

2019 P 3069 AURIEMMA M., IAZZETTA A. (2019) *Heat transfer and storage of sodium nitrate with alumina nanoparticles – Numerical analysis* – Journal of Engineering Research and Application 9 (1), pp. 48-53.

2019 P 3070 DE SIMIO L., GAMBINO M., IANNACCONE S. (2019) *Effect of EGR on engines fueled with natural gas and natural gas/hydrogen blends*– Natural Gas Engines, Energy, Environment and Sustainability (ISBN: 978-981-13-3307-1).

2019 P 3072 ALFE' M., GARGIULO V., NAPOLITANO P., ALFUSO S., BEATRICE C., GUIDO C. (2019) *Chemical/physical features of particulate emitted from a heavy-duty SI LPG engine*– First International Conference on smart Energy Carriers, Napoli (Italy)

2019 P 3073 WANG Z., STAMATOGLU P., LUNDGREN M., LUISE L., VAGLIECO B.M., ANDERSSON A., ALDEN M., ANDERSSON O., RICHTER M. (2019) *Simultaneous 36 kHz PLIF/chemiluminescence imaging of fuel, CH₂O and combustion in a PPC engine*– Proceedings of the Combustion Institute 37, pp.4751-4758.

2019 P 3075 PRATI M.V., COSTAGLIOLA M.A., ZUCCHEROSO A., NAPOLITANO P. (2019) *Assessment of euro % diesel vehicle NOx emissions by laboratory and track testing* – Environmental Science and Pollution Research, pp. 11- (doi.org/10.1007/s11356-019-04486-7).

2019 P 3076 CATAPANO F., DI IORIO S., LUISE L., SEMENTA P., VAGLIECO B.M. (2019) *Influence of ethanol blended and dual fueled with gasoline on soot formation and particulate matter emissions in a small displacement spark ignition engine*– Fuel 245, pp.253-262.

2019 P 3085 ALLOCCA L., MONTANARO A., MECCARIELLO G. (2019) *Effects of the ambient conditions on the spray structure and evaporation of the ECN spray G* – SAE PAPER 2019-01-0283, pp. 11 (ISSN 0148-7191).

2019 P 3086 MONTANARO A., ALLOCCA L. (2019) *Study of liquid and vapor phases of a GDI spray* – Combustion Science and Technology 191 (3), pp.9.

2019 P 3088 MANCARUSO E., TODINO M., VAGLIECO B.M. (2019) *Analysis of dual fuel combustion in single cylinder research engine fueled with methane and diesel by IR diagnostics* – SAE PAPER 2019-01-1165, pp. 11 (ISSN 0148-7191).

2019 P 3090 BEATRICE C., DI BLASIO G., PESCE F.C., VASSALLO A., AVOLIO G., IANNIELLO R. (2019) *Key fuel injection system features for efficiency improvement in future diesel passenger cars* – SAE PAPER 2019-01-0547, pp. 16 (ISSN 0148-7191).

2019 P 3091 MOUSSA O., FRANCELINO D., TARLET D., MASSOLI P., BELLETTRE J. (2019) *Insight of a water-in-oil emulsion drop under leidenfrost heating using laser-induced fluorescence optical diagnostics* – Atomization and Sprays 29 (1), pp.1-17.

2019 P 3093 GIORGIO M., MELE A., PULCINI G. (2019) *A perturbed gamma degradation process with degradation dependent non-Gaussian measurement errors* – Applied Stochastic Models in Business and Industry 35 (2), pp.198-210.

2019 P 3094 MURENA F., PRATI M.V. (2019) *Spatial variability of fine particle number concentration in an urban area*– Proceedings of the Seventh International conference on Environmental Management, Engineering, Planning & Economics (ISBN: 978-618-5271-73-2).

2019 P 3095 GUIDA M., POSTIGLIONE F., PULCINI G. (2019) *A Bayesian approach for non-homogeneous gamma degradation processes* – Communications in Statistics - Theory and Methods 48 (7), pp.1748-1765.

2019 P 3096 MURENA F., PRATI M.V., COSTAGLIOLA M.A. (2019) *Real driving emissions of a scooter and a passenger car in Naples city* – Transportation Research Part D 73, pp.46-55.

2019 P 3097 TORNATORE C., MARCHITTO L., COSTAGLIOLA M.A., VALENTINO G. (2019) *Experimental comparative study on performance and emissions of E85 adopting different injection approaches in a turbocharged PFI SI engine* – Energies 12 (8), pp.15.

2019 P 3098 CATAPANO F., DI IORIO S., VAGLIECO B.M. (2019) *Characterization of a sub-23 particles and their measure for PFI/DI SI engines fueled with gasoline, ethanol and blend* –23rd Transport and Air Pollution Conference, Thessaloniki, (Greece).

- 2019 P 3099 APICELLA P., MANCARUSO E., RUSSO C., TEGROSSI A., OLIANO M.M., CIAJOLO A., VAGLIECO B.M. (2019)** *Effect of after-treatment systems on organic particulate matter emissions in diesel engine exhaust* –11th Mediterranean Combustion Symposium, Tenerife, (Spain).
- 2019 P 3100 SEQUINO L., MANCARUSO E., VAGLIECO B.M., CONTINILLO G. (2019)** *Experimental measurements of piston temperature and analysis of heat flux applying advanced infrared imaging in a compression ignition engine* –11th Mediterranean Combustion Symposium, Tenerife, (Spain).
- 2019 P 3101 SAUFI A.E., CALABRIA R., CHIARIELLO F., FRASSOLDATI A., CUOCI A., FARAVELLI T., MASSOLI P. (2019)** *An experimental and CFD modeling study of suspended droplets evaporation in buoyancy driven convection* – Chemical Engineering Journal 375, pp.15.
- 2019 P 3103 CALABRIA R., CHIARIELLO F., MASSOLI P. (2019)** *Thermal behavior of pyrolysis oil – diesel oil emulsion in evaporating micronic droplets* –11th Mediterranean Combustion Symposium, Tenerife, (Spain).
- 2019 P 3104 CALABRIA R., CHIARIELLO F., MASSOLI P.,FRASSOLDATI A., VAN DE BELD B., HERMANN S.T.E., OASMAA A., TOUSSAINT A. (2019)** *The effect of adding ethanol on the ignition properties of fast pyrolysis bio oils* –EUBCE 2019 – 27th European Biomass Conference & Exhibition, Lisbon, (Portugal).
- 2019 P 3105 CALABRIA R., MASSOLI P.,FABBRI D., TORRI C. (2019)** *Biochar and bioslurry combustion* –EUBCE 2019 – 27th European Biomass Conference & Exhibition, Lisbon, (Portugal).
- 2019 P 3106 MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2019)** *Evaluation of the vaporization energy of a diesel and a biodiesel spray via infrared imaging and 1D model* – Computational Thermal Sciences 11 (4),pp. 285-296.
- 2019 P 3107 COSTA M., ROCCO V., CAPUTO C., DI BLASIO G., LA VILLETTA M., G.MARTORIELLO, R.TUCCILLO (2019)** *Model based optimization of the control strategy of a gasifier coupled with a spark ignition engine in a biomass powered cogeneration system*– Applied Thermal Engineering 160, pp. 13.
- 2019 P 3108 COSTA M., MASSAROTTI N., STASI A., CIRILLO D., LA VILLETTA M., DI BLASIO G., PRATI M.V., COSTAGLIOLA M.A., MAURO A., VANOLI L., MACALUSO A., CAROTENUTO A., MIGLIACCIO M., BUONO, A., MULONE V., ROCCO V., CAPUTO C., MARTORIELLO G. (2019)** *Innovative plants for distributed poly-generation by residual biomass*– UBCE 2019 (ISBN: 978-88-89407-18-9).
- 2019 P 3109 COSTA M., CIRILLO D., ROCCO V., TUCCILLO R. LA VILLETTA M., CAPUTO C., MARTORIELLO G. (2019)** *Characterization and optimization of heat recovery in a combined heat and power generation unit* – Tecnica Italiana 63 (2-4), pp. 6.
- 2019 P 3110 COSTA M., DI BLASIO G., PRATI M.V., COSTAGLIOLA M.A., RUOPPOLO G., URCIUOLO M., CIRILLO D., LA VILLETTA M., ROCCO V., CAPUTO C., TUCCILLO R., MARTORIELLO G. (2019)** *Experimental comparison on real m-CHP fuelled by different biomass* – International Conference on Smart Energy Carriers – Napoli (Italy).
- 2019 P 3111 GIORGIO M., PULCINI G. (2019)** *a New Age and state dependent degradation process with possibility negative increments*– International Journal of Quality and Reliability Engineering, pp.26. (DOI: 10.1002/qre.2525)
- 2019 P 3112 CAPUTO C., CIRILLO D., COSTA M. DI BLASIO G., DI PALMA M., PIAZZULLO D., VUJANOVIC M. (2019)** *Multi-level modelling of real syngas combustion in a spark ignition engine and experimental validation* – SAE PAPER 2019-24-0012, pp. 15 (ISSN 0148-7191).(ICE 2019).
- 2019 P 3113 VISCARDI M., SIANO D., CHIMENTI M., PANZA M.A., MOLARO A., LANZILLO S. (2019)** *Analisi sperimentale di materiali acustici innovativi per il controllo del rumore del motore nei veicoli*– Associazione Italiana di Acustica (ISBN: 978-88-88942-59-9).
- 2019 P 3114 SIANO D., PANZA M. (2019)** *Vibration-based methodology for online health monitoring of rotating machines* – Proceedings of the 26th International Congress on Sound and Vibration (ISBN: 978—1-9991810-0-0).
- 2019 P 3115 SIANO D.,VISCARDI M.,CHIMENTIM., PANZA M.,MOLARO A., LANZILLO S. (2019)** *Experimental analysis of innovative acoustic materials for engine noise control in vehicles* – Proceedings of the 26th International Congress on Sound and Vibration (ISBN: 978—1-9991810-0-0).
- 2019 P 3116 SIANO D. (2019)** *Controlli in real time su motori avio* – Ricerca & Innovazione Platinum, luglio 2019, p.85
- 2019 P 3117 DE SIMIO L., IANNACCONE S. (2019)** *Gaseous and particle emissions in low-temperature combustion diesel-HCNG dual-fuel operation with double pilot injection* – Applied Energy 253 (113603), pp.10.
- 2019 P 3118 MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2019)** *Temperature measurements of the piston optical window in a research compression ignition engine to set-up a 1d model of heat transfer in transient conditions* – SAE PAPER 2019-24-0182, pp. 13 (ISSN 0148-7191).(ICE 2019).
- 2019 P 3119 MANCARUSO E. PEROZZIELLO C., SEQUINO L. (2019)** *T1D modelling of alternative fuels spray in a compression ignition engine using injection rate shaping strategy* – SAE PAPER 2019-24-0132, pp. 15 (ISSN 0148-7191).(ICE 2019).
- 2019 P 3120 DI STASO E., AMIRANTE R., CASSONE E., CATA-PANO F., DE PALMA P., SEMENTA P., TAMBURRANO T. (2019)** *Experimental and numerical analysis of a pre-chamber turbulent jet ignition combustion system* – SAE PAPER 2019-24-0018, pp. 17 (ISSN 0148-7191).(ICE 2019).
- 2019 P 3121 MARCHITTO L., TORNATORE C., VALENTINO G., TEODOSIO L. (2019)** *Impact of cooled EGR on performance and emissions of a turbocharged spark-ignition engine under low-full load conditions* – SAE PAPER 2019-24-0021, pp. 11 (ISSN 0148-7191).(ICE 2019).
- 2019 P 3122 CONTINO M., ALLOCCA L., MONTANARO A., CARDONE G., ZACCARIA M. (2019)** *Dynamic thermal behavior of a GDI spray impacting on a heated thin foil by phase-average infrared thermography* – SAE PAPER 2019-24-0036, pp. 8 (ISSN 0148-7191).(ICE 2019).
- 2019 P 3123 MARIALTO R., SEQUINO L., DI BLASIO G., CARDONE M., BEATRICE C., IANNIELLO R., FONTANA G. (2019)**

- Combustion and emission characteristics of a diesel engine fueled with diesel – LPG blends* – SAE PAPER 2019-24-0038, pp. 9 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3124 IRIMESCU A. (2019)** *Back-pressure and fuel type effects on exhaust gas oxygen sensor readings for a single cylinder spark ignition engine running on gasoline and ethanol* – SAE PAPER 2019-24-0046, pp. 13 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3125 MANCARUSO E., VAGLIECO B.M., GSTREIN W., PRIFTIS K., TEGROSSI A., RUSSO C., APICELLA B. (2019)** *Chemical and physical characteristics of organic particulate matter from exhaust after-treatment system of Euro 6 diesel engine operating at full load* – SAE PAPER 2019-24-0053, pp. 9 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3126 ALLOCCA L., SIANO D., MONTANARO A., PANZA M.A. (2019)** *Imaging and vibro-acoustic diagnostic techniques comparison for a GDI fuel injector* – SAE PAPER 2019-24-0058, pp. 8 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3127 DI MAIO D., BEATRICE C., FRAIOLI V., GOLINI S., RUTIGLIANO G. (2019)** *Development of a dedicated CNG three-way catalyst model in 1-D simulation platforms* – SAE PAPER 2019-24-0074, pp. 14 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3128 ARMINIO F., CAMERETTI M.C., DE SIMIO L., IANNACCONE S., TERZO T. (2019)** *Modelling of a spark ignition engine with turbo-generator for energy recovery*– SAE PAPER 2019-24-0084, pp. 8 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3129 DI BLASIO G., BEATRICE C., IANNIELLO R., PESCE F.C., VASSALLO A., BELGIORNO G., AVOLIO G. (2019)** *Balancing hydraulic flow and fuel injection parameters for low-emission and high-efficiency automotive diesel engines* – SAE PAPER 2019-24-0111, pp. 15 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3130 MAROTEAUX F., MANCARUSO E., VAGLIECO B.M. (2019)** *A mixing timescale model for PDF simulations of LTC combustion process in internal combustion engines*– SAE PAPER 2019-24-0113, pp. 13 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3131 GUIDO C., FRAIOLI V., NAPOLITANO P., ALFUSO S., BEATRICE C. (2019)** *Emissive behavior of a heavy-duty SI gas engine during WHTC*– SAE PAPER 2019-24-0121, pp. 10 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3132 MIGLIACCIO M., MONTANARO A., PAREDID., LUCCINI T., ALLOCCA L., D'ERRICO G. (2019)** *CFD modelling and validation of the RCN spray G experiment under a wide range of operating conditions*– SAE PAPER 2019-24-0130, pp. 13 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3133 LAZZARO M., CATAPANO P., SEMENTA P. (2019)** *Experimental characterization of methane direct injection from an outward-opening poppet-valve injector*– SAE PAPER 2019-24-0135, pp. 10 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3134 DELLA RAGIONE L., MECCARIELLO G. (2019)** *Emission factors evaluation in the RDE context by a multivariate statistical approach* – SAE PAPER 2019-24-0152, pp. 10 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3135 DI IORIO S., CATAPANO F., VAGLIECO B.M., CONTINILLO G., PETITO G. (2019)** *Analysis of the effect of the sampling conditions on the 23nm particles emitted by a small displacement PFI and DI SI engines fueled with gasoline, ethanol and a blend*– SAE PAPER 2019-24-0155, pp. 7 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3136 SEMENTA P., CATAPANO F., DI IORIO S., VAGLIECO B.M. (2019)** *Experimental investigation of a fueled prechamber combustion in an optical small displacement SI methane engine*– SAE PAPER 2019-24-0170, pp. 10 (ISSN 0148-7191) (ICE 2019).
- 2019 P 3137 DELLA RAGIONE L., MECCARIELLO G. (2019)** *Statistical analysis on real kinematic urban driving cycles by preliminary use of VSP variable* –WSEAS TRANSACTIONS on Environment and Development 15, pp. 213-220.
- 2019 P 3138 GIORGIO M., POSTIGLIONE F., PULCINI G.. (2019)** *A Bayesian estimation approach for the age-and state-dependent transformed wiener degradation process* –ESREL 2019 – 29th European Safety and Reliability Conference, Hannover (Germany).
- 2019 P 3139 MONTANARO A., ALLOCCA L. MECCARIELLO G., DE VITA A. (2019)** *Very high-pressure sprays of gasoline from a GDI multi-hole* –ILASS-Europe 2019 – 29th Conference on Liquid Atomization and Spray Systems, Paris (France).
- 2019 P 3141 CATAPANO F., SEMENTA P., VAGLIECO B.M. (2019)** *Knock onset detection methods evaluation by in-cylinder direct observation*– SAE PAPER 2019-01-0233, pp. 13 (ISSN 0148-7191).
- 2019 P 3142 SEMENTA P., CATAPANO F., DI IORIO S., VAGLIECO B.M. (2019)** *Effect of prechamber on efficiency improvement and emissions reduction of a SI engine fueled with gasoline*– SAE PAPER 2019-01-0236, pp. 11 (ISSN 0148-7191).
- 2019 P 3145 ALLOCCA L., MECCARIELLO G. MONTANARO A. (2019)** *Gasoline spray morphology in I.C. engines at very-high injection pressures for different ambient conditions* –SEEP 2019 – 12th International Conference on Sustainable energy & Environmental Protection, Sharjah (Emirati Arabi).
- 2019 P 3146 CHIARIELLO F., REALE F., CALABRIA R., MASSOLI P. (2019)** *A biogas fueled micro gas turbine: energetic performance and environmental impact analysis*–ASME Turbo EXPO 2019: Turbomachinery Technical Conference and Exposition, Phenix - Arizona (USA).
- 2019 P 3147 REALE F., SANNINO R., CALABRIA R., MASSOLI P. (2019)** *An integrated energy system based on microgas turbine and ORC with gasification: numerical study and performance analysis* – 42nd Meeting on the Italian Section of the Combustion Intitute – Ravenna (Italia).
- 2019 P 3148 FABBRI D., TORRI C., ONG G.M., MASSOLI P. (2019)** *A Fresnel lens minireactor to study the chemistry of solar pyro-gasification of biomass* – 42nd Meeting on the Italian Section of the Combustion Intitute – Ravenna (Italia).
- 2019 P 3149 TUCCILLO R., CAMERETTI M.C., DE ROBBIO R., REALE F., CHIARIELLO F. (2019)** *Methane-hydrogen blends in micro gas turbines: comparison of different combustor concepts*–ASME Turbo EXPO 2019: Turbomachinery Technical Conference and Exposition, Phenix - Arizona (USA).
- 2019 P 3150 AVERSA A., CILIONE E., DI MATTEO L., BALDASARA B., CHIAVETTA C., GENOVESE A., LELLI M., MESSINA G., PORTA P., VALENTINI M.P., BEATRICE C., CAPASSO C., DELLA RAGIONE L., MECCARIELLO G., VITALE G., BACCELLI O., COSSU**

F., FIACCO A., RONZONI C., SCOTTO F.C. (2019) *Per una transizione energetica eco-razionale della mobilità automobilistica – Valutazione del caso italiano*—ACI – Roma (Italia).

2019 P 3158 MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2019) *Advanced diagnostics for diesel combustion in a research engine* – 42nd Meeting on the Italian Section of the Combustion Institute – Ravenna (Italia).

2019 P 3152 MARTINEZ-BOGGIO S.D., MEROLA S.S., TEIXEIRA LACAVA P., IRIMESCU A., CURTO-RISSO P.L. (2019) *Effect of fuel and air dilution on syngas combustion in an optical SI engine*—Energies 12, pp. 23.

2019 P 3153 MARTINEZ S., MEROLA S.S., IRIMESCU A. (2019) *Flame front and burned gas characteristics for different split injection ratios and phasing in an optical GDI engine*—Applied Sciences 449 (9), pp. 19.

2019 P 3154 CHANG. C.T., COSTA M., LA VILLETTA M., MACALUSO A., PIAZZULLO D., VANOLI L. (2019) *Thermo-economic analyses of a Taiwanese combined CHP system fueled with syngas from rice husk gasification*—Energy 167, pp. 766-780.

2019 P 3155 IRIMESCU A., MEROLA S.S., DI IORIO S., VAGLIECO B.M. (2019) *Opto-thermal analysis of the combustion process in a DISI engine fueled with gasoline and ethanol* - AIP CONFERENCE PROCEEDINGS 2191, pp. 10- (ISSN 1551-7616).

2019 P 3156 IRIMESCU A., MEROLA S.S., ZOLLO V., DE MARINIS R., VAGLIECO B.M. (2019) *Heat exchange and flow characteristics of a cooled EGR module evaluated in automotive operating conditions*—Proc. of the Ninth Intl. Conf. on Advances in Civil, Structural and Mechanical Engineering - CSM 2019 – pp. 61-66 - ISBN 978-1-63248-182-5.

2019 P 3158 MANCARUSO E., SEQUINO L., VAGLIECO B.M. (2019) *Advanced diagnostics for diesel combustion in a research engine* – 42nd Meeting on the Italian Section of the Combustion Institute – Ravenna (Italia).

2019 P 3159 MANCARUSO E., MARIALTO R., SEQUINO L., VAGLIECO B.M. (2019) *Propane/Diesel mixed fuels spray angle investigation in the near-nozzle field via high-speed imaging* – ILASS –Europe 2019- 29th Conference on Liquid Atomization and Spray Systems – Parigi (Francia).

2019 P 3161 DI IORIO S., CATAPANO F., VAGLIECO B.M. (2019) *Impact of ethanol fuel and blend on sub-23nm particles and their measure* – International Conference on Sustainable Mobility, CSM2019 – Catania (Italy).

2019 P 3162 CATAPANO F., DI IORIO S., VAGLIECO B.M. (2019) *Understanding of sub-23nm particle emissions from PFI/DI SI engine fuelled with gasoline, ethanol and blend* – 23th ETH Conference on Combustion Generated Nanoparticles – Zurigo (Svizzera).

2019 P 3179 SIANO D., COSTAGLIOLA M.A., PANZA M.A., PRATI M.V. (2019) *Air pollution and noise emissions of a Euro5 diesel car in different testing environments*- International Journal of Environmental Science: Development and Monitoring 4, pp. 120-126 .

2020

2020 P 3157 DURONIO F., DE VITA A., ALLOCCA L., ANATONE M. (2020) *Gasoline direct injection engines – a review of latest technologies and trends. Part 1 – Spray breaking process*—Fuel 265, pp. 16.

2020 P 3160 MARIANI A., MASTELLONE M.L., MORRONE B., PRATI M.V., UNICH A. (2020) *an organic rankine cycle bootomting a diesel engine powered passenger car*—Energies 314 (13) , pp. 16.

2020 P 3163 DURONIO F., DE VITA A., MONTANARO A., VIL-LANTE C. (2020) *Gasoline direct injection engines – a review of latest technologies and trends. Part 2* — Fuel 265, pp. 11.

2020 P 3177 SCOTTI N., RAVASIO N., ZACCHERIA F., IRIMESCU A., MEROLA S.S. (2020) *Green pathway to a new fuel extender: continuous flow catalytic synthesis of butanol/butyl butyrate mixtures* — RSC Advances 10 (6), pp. 3130-3136.

2020 P 3178 MURENA F., ESPOSITO S., DEORSOLA F.A., GALLETTI G., PRATI M.V. (2020) *CO₂ abatement and CH₄ recovery at vwhicle exhausts: comparison and characterization of RU powder and pellet catalysts* — International Journal of Hydrogen Energy 45, pp. 8640-8648.

2020 P 3180 MONTANARO A., ALLOCCA L. (2020) *Effects of very high injection pressures on GDI spray* -Fluid Mechanics and its application 121, pp. 10 .

2020 P 3181 CONTINO M., ALLOCCA L., MONTANARO A., CARDONE G., ZACCARA M. (2020) *Dynamic thermal behaviour of GDI spray impacting on a heated thin foil by phase-averaged infrared thermography* -SAE International of Advances and Currents Tractives in Mobility 2 (2), pp. 512-519 .

2020 P 3182 ALLOCCA L., MONTANARO A., MECCARIELLO G., DURONIO F., RANIERI S., DE VITA A. (2020) *Under- expandend gaseous jets characterization for application in directinjection engines: experimental and numerical approach* - SAE PAPER 2020-01-0325, pp. 15 (ISSN 0148-7191)

2020 P 3183 ALLOCCA L., MONTANARO A. (2020) *Air-fuel mixture preparation for internal combustion engines: optical techniques for diagnosis of the spray developments* – 11th International Conference on Internal Combustion Engine & Oil – Supplyng Automotive Parts Co. (SAPCO) - Teheran (Iran).

2020 P 3184 DI FRAIA S., MASSAROTTI N., PRATI M.V., VANOLI L. (2020) *A new example a circular economy waste-vegetable oil for cogeneration in wastewater treatment plants* — Energy Conversion and Management 211, pp. 10.

2020 P 3185 MARCHITTO L., TEODOSIO L., TORNATORE C., VALENTINO G., BOZZA F. (2020) *Experimental and 1D numerical investigations on the exhaust emissions of a small spark ignition engine considering the cylindere-bycylinder variability* -SAE PAPER 2020-01-0578, pp. 12 (ISSN 0148-7191)

2020 P 3186 ALLOCCA L., MONTANARO A., MECCARIELLO G. (2020) *Effects of ultra-high injection pressures up to 100 MPa on gasoline spray morphology* -SAE PAPER 2020-01-0320, pp. 12 (ISSN 0148-7191)

2020 P 3193 DI IORIO S., CATAPANO F. SEMENTA P., VAGLIECO B.M., NICOL G., SGROI D. (2020) *Sub-23 nm particle emissions from gasoline direct injection vehicles and engines:sampling and measure* -SAE PAPER 2020-01-0396, pp. 9 (ISSN 0148-7191)

2020 P 3194 MEROLA S.S., IRIMESCU A., VAGLIECO B.M.(2020) *Influence of water injection on combustion identified through spectroscopy on a optical direct injection spark ignition engine* – Fuel 273, pp. 14

2020 P 3195 APICELLA B., MANCARUSO E., RUSSO C., TREGROSSI A., OLIANO M.M.M, CIAJOLO A., VAGLIECO B.M.(2020) *Effect of after-treatment systems of particulate matter emissions in diesel engine exhaust*— Experimental Thermal and Fluid Science 116, pp. 8

2020 P 3196 SEMENTA P. CATAPANO F., DI IORIO S., TODINO M., VAGLIECO B.M. (2020) *Analysis fo the combustion process of SI engines equipped with no-conventional ignition system architecture* -SAE PAPER 2020-37-0035, pp. 13 (ISSN 0148-7191)

2020 P 3197 CAMPANA E.F., DI PIAZZA M.C., DI SUMMA M., FERRO E., MASSOLI P., SACCO M., SOLDVIERI F., VAGLIECO B.M., BASSAN N., CASTINO A., DEBENEDETTI M., GUGLIA P. (2020) *CNR- Fincantieri Joint Projects: a successful example o collaboration between research and industry based on the open innovation approach*- Journal of Open Innovation: Technology, Market ,and Complexity 6, pp. 21

2020 P 3198 CAPUTO C., CIRILLO D., COSTA M., LA VILLETTA M., MARTORIELLO G., PIAZZULLO D., TUCCILLO R. (2020) *Optimization of the efficiency in a syngas powered SI engine through numerical studies related to geometry of the combustion chamber*- Chemical Engineering Transactions 80, pp. 19-24 .

2020 P 3199 VAGLIECO B.M., MEROLA S.S., IRIMESCU A., ZOLLO V., DE MARINIS R. (2020) *Online monitoring solutions of efficiency of automotive EGR heat exchangers* – ICPEME 2020 – Budapest (Ungheria).

2020 P 3200 MEROLA S.S., IRIMESCU A., VAGLIECO B.M., DI IORIO S., SEMENTAL P. (2020) *Spectroscopy based tool for temperatureevaluation during the spark discharged* - SAE International Journal of Advances & Current Practice in Mobility 2(2), pp. 966-978- SAE PAPER 2019-32-0502 - (ISSN 2641-9645)

2020 P 3201 COSTA M., DI BLASIO G., PRATI M.V., COSTAGLIA M.A., CIRILLO D., LA VILLETTA M. CAPUTO C., MARTIRIELLO G. (2020) *Multi-objective optmization of a syngas powered reciprocating engine equipping a combined heat and power unit* — Applied Energy 275, pp. 14

2020 P 3202 MANCARUSO E., TODINO N., VAGLIECO B.M. (2020) *Study on dual fuel combustion in a optical research engine by infrared diagnostics varyng methane quantity and engine speed* — Applied Thermal Engineering 178, pp. 14