

Cinzia Tornatore

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

887
citations

18
h-index

26
g-index

85
ext. papers

1,025
ext. citations

3.5
avg, IF

4.36
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 74 | Technologies for Knock Mitigation in SI Engines: A Review. <i>Energy, Environment, and Sustainability</i> , 2022 , 325-349 | 0.8 | 0 |
| 73 | Numerical evaluation of heat transfer effects on the improvement of efficiency of a spark ignition engine characterized by cylinder variability. <i>Case Studies in Thermal Engineering</i> , 2022 , 35, 102125 | 5.6 | 0 |
| 72 | Performance and Emissions of a Spark Ignition Engine Fueled with Water-in-Gasoline Emulsion Produced through Micro-Channels Emulsification. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9453 | 2.6 | 1 |
| 71 | Effect of Cylinder-by-Cylinder Variation on Performance and Gaseous Emissions of a PFI Spark Ignition Engine: Experimental and 1D Numerical Study. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6035 | 2.6 | 1 |
| 70 | Optical Investigation of a Partial Fuel Stratification Strategy to Stabilize Overall Lean Operation of a DISI Engine Fueled with Gasoline and E30. <i>Energies</i> , 2021 , 14, 396 | 3.1 | 7 |
| 69 | Individual Cylinder Combustion Optimization to Improve Performance and Fuel Consumption of a Small Turbocharged SI Engine. <i>Energies</i> , 2020 , 13, 5548 | 3.1 | 2 |
| 68 | Experimental Comparative Study on Performance and Emissions of E85 Adopting Different Injection Approaches in a Turbocharged PFI SI Engine. <i>Energies</i> , 2019 , 12, 1555 | 3.1 | 4 |
| 67 | Experimental and numerical study on the influence of cooled EGR on knock tendency, performance and emissions of a downsized spark-ignition engine. <i>Energy</i> , 2019 , 172, 968-976 | 7.9 | 36 |
| 66 | Optical investigations in a CI engine fueled with water in diesel emulsion produced through microchannels. <i>Experimental Thermal and Fluid Science</i> , 2018 , 95, 96-103 | 3 | 18 |
| 65 | Impact of Ethanol-Gasoline Port Injected on Performance and Exhaust Emissions of a Turbocharged SI Engine 2018 , | | 3 |
| 64 | Effect of Water Injection on Fuel Efficiency and Gaseous and PN Emissions in a Downsized Turbocharged SI Engine. <i>Journal of Energy Engineering - ASCE</i> , 2018 , 144, 04018044 | 1.7 | 7 |
| 63 | Optical Analysis of Combustion and Soot Formation in a CI Engine Fuelled with Water in Diesel Emulsion through Microchannels Emulsification. <i>Journal of Physics: Conference Series</i> , 2018 , 1110, 012018-3 | 0.3 | 1 |
| 62 | Effect of coolant temperature on air-fuel mixture formation and combustion in an optical direct injection spark ignition engine fueled with gasoline and butanol. <i>Journal of the Energy Institute</i> , 2017 , 90, 452-465 | 5.7 | 16 |
| 61 | A RANS knock model to predict the statistical occurrence of engine knock. <i>Applied Energy</i> , 2017 , 191, 251-263 | 10.7 | 34 |
| 60 | Effect of injection timing on combustion and soot formation in a direct injection spark ignition engine fueled with butanol. <i>International Journal of Engine Research</i> , 2017 , 18, 490-504 | 2.7 | 21 |
| 59 | Water Injection: a Technology to Improve Performance and Emissions of Downsized Turbocharged Spark Ignited Engines. <i>SAE International Journal of Engines</i> , 2017 , 10, 2319-2329 | 2.4 | 23 |
| 58 | Effect of the Fuel-Injection Strategy on Flame-Front Evolution in an Optical Wall-Guided DISI Engine with Gasoline and Butanol Fueling. <i>Journal of Energy Engineering - ASCE</i> , 2016 , 142, | 1.7 | 13 |

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| 57 | Optical diagnostics of early flame development in a DISI (direct injection spark ignition) engine fueled with n-butanol and gasoline. <i>Energy</i> , 2016 , 108, 50-62 | 7.9 | 24 |
| 56 | CFD Analysis of Combustion and Knock in an Optically Accessible GDI Engine. <i>SAE International Journal of Engines</i> , 2016 , 9, 641-656 | 2.4 | 31 |
| 55 | An Experimental Investigation of Alcohol/Diesel Fuel Blends on Combustion and Emissions in a Single-Cylinder Compression Ignition Engine 2016 , | | 4 |
| 54 | Plasma Assisted Ignition Effects on a DISI Engine Fueled with Gasoline and Butanol under Lean Conditions and with EGR 2016 , | | 4 |
| 53 | Cycle-resolved visualization of pre-ignition and abnormal combustion phenomena in a GDI engine. <i>Energy Conversion and Management</i> , 2016 , 127, 380-391 | 10.6 | 19 |
| 52 | Development of a semi-empirical convective heat transfer correlation based on thermodynamic and optical measurements in a spark ignition engine. <i>Applied Energy</i> , 2015 , 157, 777-788 | 10.7 | 25 |
| 51 | Combustion Process Investigation in a DISI Engine Fuelled with n-butanol Through Digital Imaging and Chemiluminescence 2015 , | | 6 |
| 50 | Flame Contour Analysis through UV-Visible Imaging during Regular and Abnormal Combustion in a DISI Engine 2015 , | | 11 |
| 49 | Characterization of Alcohol Sprays from Multi-Hole Injector for DISI Engines through PIV Technique 2015 , | | 2 |
| 48 | CHARACTERIZATION OF n-BUTANOL AND GASOLINE SPRAY FROM A MULTIHOLE INJECTOR USING PHASE DOPPLER ANEMOMETRY. <i>Atomization and Sprays</i> , 2015 , 25, 1047-1062 | 1.2 | 2 |
| 47 | Butanol-Diesel Blend Spray Combustion Investigation by UV-Visible Flame Emission in a Prototype Single Cylinder Compression Ignition Engine. <i>SAE International Journal of Engines</i> , 2015 , 8, 2145-2158 | 2.4 | 4 |
| 46 | Split Injection in a DISI Engine Fuelled with Butanol and Gasoline Analyzed through Integrated Methodologies. <i>SAE International Journal of Engines</i> , 2015 , 8, 474-494 | 2.4 | 14 |
| 45 | Experimental Evaluation of an Advanced Ignition System for GDI Engines. <i>SAE International Journal of Engines</i> , 2015 , 8, 2351-2367 | 2.4 | 7 |
| 44 | Combustion process investigations in an optically accessible DISI engine fuelled with n-butanol during part load operation. <i>Renewable Energy</i> , 2015 , 77, 363-376 | 8.1 | 37 |
| 43 | Combustion Process Analysis in a DISI Engine Fuelled with N-Butanol through UV-VIS Emission Spectroscopy. <i>International Journal of Engineering and Technology</i> , 2015 , 7, 242-248 | 0 | 6 |
| 42 | Chemiluminescence analysis of the effect of butanol-diesel fuel blends on the spray-combustion process in an experimental common rail diesel engine. <i>Thermal Science</i> , 2015 , 19, 1943-1957 | 1.2 | |
| 41 | UV-visible digital imaging of split injection in a Gasoline Direct Injection engine. <i>Thermal Science</i> , 2015 , 19, 1873-1886 | 1.2 | |
| 40 | Optical characterization of combustion processes in a DISI engine equipped with plasma-assisted ignition system. <i>Applied Thermal Engineering</i> , 2014 , 69, 177-187 | 5.8 | 19 |

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| 39 | Evaluation of different methods for combined thermodynamic and optical analysis of combustion in spark ignition engines. <i>Energy Conversion and Management</i> , 2014 , 87, 914-927 | 10.6 | 24 |
| 38 | Combustion process investigation in a high speed diesel engine fuelled with n-butanol diesel blend by conventional methods and optical diagnostics. <i>Renewable Energy</i> , 2014 , 64, 225-237 | 8.1 | 75 |
| 37 | Optical Properties Investigation of Alternative Fuels Containing Carbon-Based Nanostructures 2014 , | | 5 |
| 36 | Experimental Study on the Spray Atomization of a Multi-hole Injector for Spark Ignition Engines Fuelled by Gasoline and n-Butanol 2014 , | | 3 |
| 35 | Optical Investigation of Postinjection Strategy Effect at the Exhaust Line of a Light-Duty Diesel Engine Supplied with Diesel/Butanol and Biodiesel Blends. <i>Journal of Energy Engineering - ASCE</i> , 2014 , 140, | 1.7 | 5 |
| 34 | Spray-combustion process characterization in a common rail diesel engine fuelled with butanol-diesel blends by conventional methods and optical diagnostics. <i>AIMS Energy</i> , 2014 , 2, 116-132 | 1.8 | 4 |
| 33 | Compression ratio and blow-by rates estimation based on motored pressure trace analysis for an optical spark ignition engine. <i>Applied Thermal Engineering</i> , 2013 , 61, 101-109 | 5.8 | 38 |
| 32 | In-cylinder spectroscopic measurements of knocking combustion in a SI engine fuelled with butanol-gasoline blend. <i>Energy</i> , 2013 , 62, 150-161 | 7.9 | 36 |
| 31 | UV-Visible Emission Spectroscopy of the Combustion Process in a Common Rail CI Engine Filled with N-Butanol - Diesel Blends. <i>Applied Mechanics and Materials</i> , 2013 , 390, 286-290 | 0.3 | 1 |
| 30 | Multi-Wavelength Spectroscopic Investigations of the Post-Injection Strategy Effect on the Fuel Vapor within the Exhaust Line of a Light Duty Diesel Engine Fuelled with B5 and B30 2013 , | | 1 |
| 29 | In-Cylinder Spectroscopic Measurements of Combustion Process in a SI Engine Fuelled with Butanol-Gasoline Blend 2013 , | | 6 |
| 28 | UV-visible Optical Characterization of the Early Combustion Stage in a DISI Engine Fuelled with Butanol-Gasoline Blend. <i>SAE International Journal of Engines</i> , 2013 , 6, 1953-1969 | 2.4 | 22 |
| 27 | Optical investigation of the fuel injector influence in a PFI spark ignition engine for two-wheel vehicles. <i>Journal of Mechanical Science and Technology</i> , 2012 , 26, 223-233 | 1.6 | 1 |
| 26 | . <i>International Journal of Energy and Environmental Engineering</i> , 2012 , 3, 6 | 4 | 47 |
| 25 | Optical diagnostics of the combustion process in a PFI SI boosted engine fueled with butanol-gasoline blend. <i>Energy</i> , 2012 , 45, 277-287 | 7.9 | 70 |
| 24 | Application of a thermodynamic model with a complex chemistry to a cycle resolved knock prediction on a spark ignition optical engine. <i>International Journal of Automotive Technology</i> , 2012 , 13, 389-399 | 1.6 | 13 |
| 23 | Optical Investigation of the Effect on the Combustion Process of Butanol-Gasoline Blend in a PFI SI Boosted Engine 2011 , | | 14 |
| 22 | Optical Investigation of Premixed Low-Temperature Combustion of Lighter Fuel Blends in Compression Ignition Engines 2011 , | | 7 |

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| 21 | Optical Diagnostics of the Pollutant Formation in a CI Engine Operating with Diesel Fuel Blends. <i>SAE International Journal of Engines</i> , 2011 , 4, 2543-2558 | 2.4 | 7 |
| 20 | Experiments on knocking and abnormal combustion through optical diagnostics in a boosted spark ignition port fuel injection engine. <i>International Journal of Automotive Technology</i> , 2011 , 12, 93-101 | 1.6 | 6 |
| 19 | Optical investigations of the early combustion phase in spark ignition boosted engines. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2011 , 225, 787-800 | 1.4 | 5 |
| 18 | Fuel Injection Effect on In-cylinder Formation and Exhaust Emission of Particulate from a 4-Stroke Engine for 2-Wheel Vehicles 2010 , | | 1 |
| 17 | Effect of the fuel injection strategy on the combustion process in a PFI boosted spark-ignition engine. <i>Energy</i> , 2010 , 35, 1094-1100 | 7.9 | 18 |
| 16 | Optical Characterization of the Combustion Process in a 4- Stroke Engine for 2-Wheel Vehicle. 2009 , | | 1 |
| 15 | Analysis of flame kinematics and cycle variation in a Port Fuel Injection Spark Ignition Engine. <i>SAE International Journal of Engines</i> , 2009 , 2, 443-451 | 2.4 | 5 |
| 14 | Spectroscopic Investigations and High Resolution Visualization of the Combustion Phenomena in a Boosted PFI SI Engine. <i>SAE International Journal of Engines</i> , 2009 , 2, 1617-1629 | 2.4 | 6 |
| 13 | Effect of the Engine Head Geometry on the Combustion Process in a PFI Boosted Spark-ignition Engine. <i>SAE International Journal of Engines</i> , 2009 , 2, 289-297 | 2.4 | |
| 12 | Knocking diagnostics in the combustion chamber of boosted port fuel injection spark ignition optical engine. <i>International Journal of Vehicle Design</i> , 2009 , 49, 70 | 2.4 | 10 |
| 11 | Optical Investigations of the Abnormal Combustion in a Boosted Spark-ignition PFI Engine. <i>SAE International Journal of Engines</i> , 2009 , 2, 632-644 | 2.4 | 5 |
| 10 | Effect of fuel injection strategies on the combustion process in a PFI boosted SI engine. <i>International Journal of Automotive Technology</i> , 2009 , 10, 545-553 | 1.6 | 10 |
| 9 | Reconstruction of flame kinematics and analysis of cycle variation in a Spark Ignition Engine by means of Proper Orthogonal Decomposition. <i>Computer Aided Chemical Engineering</i> , 2009 , 26, 1039-1043 | 0.6 | 1 |
| 8 | Particle and nanoparticle characterization at the exhaust of internal combustion engines. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2008 , 222, 2195-2217 | 1.4 | 5 |
| 7 | The application of power-based transfer path analysis to passenger car structure-borne noise. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2008 , 222, 2011-2023 | 1.4 | 4 |
| 6 | Effect of Injection Phasing on Valves and Chamber Fuel Deposition Burning in a PFI Boosted Spark-Ignition Engine. <i>SAE International Journal of Fuels and Lubricants</i> , 2008 , 1, 192-200 | 1.8 | 8 |
| 5 | Characterization of Nanoparticles at the Exhaust of a Common Rail Diesel Engine by Optical Techniques and Conventional Method. 2005 , | | 3 |
| 4 | Nanoparticles Characterization at Spark Ignition Engine Exhaust 2005 , | | 5 |

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| 3 | Diesel Exhaust Nanoparticles Characterization by Multiwavelength Techniques, Laser Induced Incandescence and ELPI 2005 , | 1 |
| 2 | Impact of Cooled EGR on Performance and Emissions of a Turbocharged Spark-Ignition Engine under Low-Full Load Conditions | 3 |
| 1 | Experimental and 1D Numerical Investigations on the Exhaust Emissions of a Small Spark Ignition Engine Considering the Cylinder-by-Cylinder Variability | 2 |