

# Cinzia Tornatore

## List of Publications by Citations

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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	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> , <b>2014</b> , 64, 225-237	8.1	75
73	Optical diagnostics of the combustion process in a PFI SI boosted engine fueled with butanol-gasoline blend. <i>Energy</i> , <b>2012</b> , 45, 277-287	7.9	70
72	. <i>International Journal of Energy and Environmental Engineering</i> , <b>2012</b> , 3, 6	4	47
71	Compression ratio and blow-by rates estimation based on motored pressure trace analysis for an optical spark ignition engine. <i>Applied Thermal Engineering</i> , <b>2013</b> , 61, 101-109	5.8	38
70	Combustion process investigations in an optically accessible DISI engine fuelled with n-butanol during part load operation. <i>Renewable Energy</i> , <b>2015</b> , 77, 363-376	8.1	37
69	In-cylinder spectroscopic measurements of knocking combustion in a SI engine fuelled with butanol-gasoline blend. <i>Energy</i> , <b>2013</b> , 62, 150-161	7.9	36
68	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> , <b>2019</b> , 172, 968-976	7.9	36
67	A RANS knock model to predict the statistical occurrence of engine knock. <i>Applied Energy</i> , <b>2017</b> , 191, 251-263	10.7	34
66	CFD Analysis of Combustion and Knock in an Optically Accessible GDI Engine. <i>SAE International Journal of Engines</i> , <b>2016</b> , 9, 641-656	2.4	31
65	Development of a semi-empirical convective heat transfer correlation based on thermodynamic and optical measurements in a spark ignition engine. <i>Applied Energy</i> , <b>2015</b> , 157, 777-788	10.7	25
64	Optical diagnostics of early flame development in a DISI (direct injection spark ignition) engine fueled with n-butanol and gasoline. <i>Energy</i> , <b>2016</b> , 108, 50-62	7.9	24
63	Evaluation of different methods for combined thermodynamic and optical analysis of combustion in spark ignition engines. <i>Energy Conversion and Management</i> , <b>2014</b> , 87, 914-927	10.6	24
62	Water Injection: a Technology to Improve Performance and Emissions of Downsized Turbocharged Spark Ignited Engines. <i>SAE International Journal of Engines</i> , <b>2017</b> , 10, 2319-2329	2.4	23
61	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> , <b>2013</b> , 6, 1953-1969	2.4	22
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> , <b>2017</b> , 18, 490-504	2.7	21
59	Optical characterization of combustion processes in a DISI engine equipped with plasma-assisted ignition system. <i>Applied Thermal Engineering</i> , <b>2014</b> , 69, 177-187	5.8	19
58	Cycle-resolved visualization of pre-ignition and abnormal combustion phenomena in a GDI engine. <i>Energy Conversion and Management</i> , <b>2016</b> , 127, 380-391	10.6	19

57	Optical investigations in a CI engine fueled with water in diesel emulsion produced through microchannels. <i>Experimental Thermal and Fluid Science</i> , <b>2018</b> , 95, 96-103	3	18
56	Effect of the fuel injection strategy on the combustion process in a PFI boosted spark-ignition engine. <i>Energy</i> , <b>2010</b> , 35, 1094-1100	7.9	18
55	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> , <b>2017</b> , 90, 452-465	5.7	16
54	Split Injection in a DISI Engine Fuelled with Butanol and Gasoline Analyzed through Integrated Methodologies. <i>SAE International Journal of Engines</i> , <b>2015</b> , 8, 474-494	2.4	14
53	Optical Investigation of the Effect on the Combustion Process of Butanol-Gasoline Blend in a PFI SI Boosted Engine <b>2011</b> ,		14
52	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> , <b>2016</b> , 142,	1.7	13
51	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> , <b>2012</b> , 13, 389-399	1.6	13
50	Flame Contour Analysis through UV-Visible Imaging during Regular and Abnormal Combustion in a DISI Engine <b>2015</b> ,		11
49	Knocking diagnostics in the combustion chamber of boosted port fuel injection spark ignition optical engine. <i>International Journal of Vehicle Design</i> , <b>2009</b> , 49, 70	2.4	10
48	Effect of fuel injection strategies on the combustion process in a PFI boosted SI engine. <i>International Journal of Automotive Technology</i> , <b>2009</b> , 10, 545-553	1.6	10
47	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> , <b>2008</b> , 1, 192-200	1.8	8
46	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> , <b>2018</b> , 144, 04018044	1.7	7
45	Experimental Evaluation of an Advanced Ignition System for GDI Engines. <i>SAE International Journal of Engines</i> , <b>2015</b> , 8, 2351-2367	2.4	7
44	Optical Investigation of Premixed Low-Temperature Combustion of Lighter Fuel Blends in Compression Ignition Engines <b>2011</b> ,		7
43	Optical Diagnostics of the Pollutant Formation in a CI Engine Operating with Diesel Fuel Blends. <i>SAE International Journal of Engines</i> , <b>2011</b> , 4, 2543-2558	2.4	7
42	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> , <b>2021</b> , 14, 396	3.1	7
41	Combustion Process Investigation in a DISI Engine Fuelled with n-butanol Through Digital Imaging and Chemiluminescence <b>2015</b> ,		6
40	In-Cylinder Spectroscopic Measurements of Combustion Process in a SI Engine Fuelled with Butanol-Gasoline Blend <b>2013</b> ,		6

39	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> , <b>2011</b> , 12, 93-101	1.6	6
38	Spectroscopic Investigations and High Resolution Visualization of the Combustion Phenomena in a Boosted PFI SI Engine. <i>SAE International Journal of Engines</i> , <b>2009</b> , 2, 1617-1629	2.4	6
37	Combustion Process Analysis in a DISI Engine Fuelled with N-Butanol through UV-VIS Emission Spectroscopy. <i>International Journal of Engineering and Technology</i> , <b>2015</b> , 7, 242-248	0	6
36	Optical Properties Investigation of Alternative Fuels Containing Carbon-Based Nanostructures <b>2014</b> ,		5
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> , <b>2014</b> , 140,	1.7	5
34	Analysis of flame kinematics and cycle variation in a Port Fuel Injection Spark Ignition Engine. <i>SAE International Journal of Engines</i> , <b>2009</b> , 2, 443-451	2.4	5
33	Optical Investigations of the Abnormal Combustion in a Boosted Spark-ignition PFI Engine. <i>SAE International Journal of Engines</i> , <b>2009</b> , 2, 632-644	2.4	5
32	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> , <b>2011</b> , 225, 787-800	1.4	5
31	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> , <b>2008</b> , 222, 2195-2217	1.4	5
30	Nanoparticles Characterization at Spark Ignition Engine Exhaust <b>2005</b> ,		5
29	Experimental Comparative Study on Performance and Emissions of E85 Adopting Different Injection Approaches in a Turbocharged PFI SI Engine. <i>Energies</i> , <b>2019</b> , 12, 1555	3.1	4
28	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> , <b>2015</b> , 8, 2145-2158	2.4	4
27	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> , <b>2008</b> , 222, 2011-2023	1.4	4
26	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> , <b>2014</b> , 2, 116-132	1.8	4
25	An Experimental Investigation of Alcohol/Diesel Fuel Blends on Combustion and Emissions in a Single-Cylinder Compression Ignition Engine <b>2016</b> ,		4
24	Plasma Assisted Ignition Effects on a DISI Engine Fueled with Gasoline and Butanol under Lean Conditions and with EGR <b>2016</b> ,		4
23	Impact of Ethanol-Gasoline Port Injected on Performance and Exhaust Emissions of a Turbocharged SI Engine <b>2018</b> ,		3
22	Experimental Study on the Spray Atomization of a Multi-hole Injector for Spark Ignition Engines Fuelled by Gasoline and n-Butanol <b>2014</b> ,		3

21	Characterization of Nanoparticles at the Exhaust of a Common Rail Diesel Engine by Optical Techniques and Conventional Method. <b>2005</b> ,		3
20	Impact of Cooled EGR on Performance and Emissions of a Turbocharged Spark-Ignition Engine under Low-Full Load Conditions		3
19	Individual Cylinder Combustion Optimization to Improve Performance and Fuel Consumption of a Small Turbocharged SI Engine. <i>Energies</i> , <b>2020</b> , 13, 5548	3.1	2
18	Characterization of Alcohol Sprays from Multi-Hole Injector for DISI Engines through PIV Technique <b>2015</b> ,		2
17	CHARACTERIZATION OF n-BUTANOL AND GASOLINE SPRAY FROM A MULTIHOLE INJECTOR USING PHASE DOPPLER ANEMOMETRY. <i>Atomization and Sprays</i> , <b>2015</b> , 25, 1047-1062	1.2	2
16	Experimental and 1D Numerical Investigations on the Exhaust Emissions of a Small Spark Ignition Engine Considering the Cylinder-by-Cylinder Variability		2
15	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> , <b>2012</b> , 26, 223-233	1.6	1
14	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> , <b>2013</b> , 390, 286-290	0.3	1
13	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 <b>2013</b> ,		1
12	Fuel Injection Effect on In-cylinder Formation and Exhaust Emission of Particulate from a 4-Stroke Engine for 2-Wheel Vehicles <b>2010</b> ,		1
11	Optical Characterization of the Combustion Process in a 4- Stroke Engine for 2-Wheel Vehicle. <b>2009</b> ,		1
10	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> , <b>2009</b> , 26, 1039-1043 <sup>0.6</sup>		1
9	Diesel Exhaust Nanoparticles Characterization by Multiwavelength Techniques, Laser Induced Incandescence and ELPI <b>2005</b> ,		1
8	Performance and Emissions of a Spark Ignition Engine Fueled with Water-in-Gasoline Emulsion Produced through Micro-Channels Emulsification. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9453	2.6	1
7	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> , <b>2021</b> , 11, 6035	2.6	1
6	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> , <b>2018</b> , 1110, 012010 <sup>0.3</sup>		1
5	Technologies for Knock Mitigation in SI Engines A Review. <i>Energy, Environment, and Sustainability</i> , <b>2022</b> , 325-349	0.8	0
4	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> , <b>2022</b> , 35, 102125	5.6	0

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| 3 | Effect of the Engine Head Geometry on the Combustion Process in a PFI Boosted Spark-ignition Engine. <i>SAE International Journal of Engines</i> , <b>2009</b> , 2, 289-297                               | 2.4 |
| 2 | 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> , <b>2015</b> , 19, 1943-1957 | 1.2 |
| 1 | UV-visible digital imaging of split injection in a Gasoline Direct Injection engine. <i>Thermal Science</i> , <b>2015</b> , 19, 1873-1886   | 1.2 |