

# Luca Marchitto

## List of Publications by Year in descending order

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64  
papers

1,032  
citations

643344

15  
h-index

620720

26  
g-index

65  
all docs

65  
docs citations

65  
times ranked

820  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.8	4
2	Exploring the potentials of water injection to improve fuel consumption and torque in a small displacement PFI spark-ignition engine. <i>Fuel</i> , 2022, 327, 125224.	3.4	4
3	Comparison between the energetic and environmental performance of a combined heat and power unit fueled with diesel and waste vegetable oil: An experimental and numerical study. <i>Renewable Energy</i> , 2021, 168, 791-805.	4.3	7
4	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.	1.3	6
5	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.	1.3	4
6	Advanced Technologies for the Optimization of Internal Combustion Engines. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10842.	1.3	3
7	Individual Cylinder Combustion Optimization to Improve Performance and Fuel Consumption of a Small Turbocharged SI Engine. <i>Energies</i> , 2020, 13, 5548.	1.6	6
8	1D numerical study on hydrogen injection enabling ultra-lean combustion in a small gasoline Spark Ignition engine. <i>E3S Web of Conferences</i> , 2020, 197, 06001.	0.2	0
9	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.	1.6	4
10	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.	4.5	59
11	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.	1.5	30
12	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, 012010.	0.3	2
13	Impact of Ethanol-Gasoline Port Injected on Performance and Exhaust Emissions of a Turbocharged SI Engine. , 2018, , .		4
14	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, .	1.0	11
15	Water Spray Flow Characteristics Under Synthetic Jet Driven By a Piezoelectric Actuator. <i>Journal of Physics: Conference Series</i> , 2017, 778, 012005.	0.3	5
16	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.	1.4	30
17	INFLUENCE OF PIEZO-DRIVEN SYNTHETIC JET ON WATER SPRAY BEHAVIOR. <i>Atomization and Sprays</i> , 2017, 27, 691-706.	0.3	13
18	An Experimental Investigation of Alcohol/Diesel Fuel Blends on Combustion and Emissions in a Single-Cylinder Compression Ignition Engine. , 2016, , .		5

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19	A Non-Linear Regression Technique to Estimate from Vibrational Engine Data the Instantaneous In-Cylinder Pressure Peak and Related Angular Position. , 2016, , .		10
20	Optical diagnostics of early flame development in a DISI (direct injection spark ignition) engine fueled with n-butanol and gasoline. Energy, 2016, 108, 50-62.	4.5	29
21	Characterization of Alcohol Sprays from Multi-Hole Injector for DISI Engines through PIV Technique. , 2015, , .		2
22	CHARACTERIZATION OF n-BUTANOL AND GASOLINE SPRAY FROM A MULTIHOLE INJECTOR USING PHASE DOPPLER ANEMOMETRY. Atomization and Sprays, 2015, 25, 1047-1062.	0.3	3
23	Butanol-Diesel Blend Spray Combustion Investigation by UV-Visible Flame Emission in a Prototype Single Cylinder Compression Ignition Engine. SAE International Journal of Engines, 2015, 8, 2145-2158.	0.4	4
24	Combustion process investigations in an optically accessible DISI engine fuelled with n-butanol during part load operation. Renewable Energy, 2015, 77, 363-376.	4.3	45
25	3D structure of liquid sprays: X-ray $\langle \text{mml:math xmlns:mml=} \text{http://www.w3.org/1998/Math/MathML} \text{ altimg=} \text{"si1.gif"} \text{ overflow=} \text{"scroll"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{1/4} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -radiography and tomography by polycapillary based technique. Nuclear Instruments & Methods in Physics Research B, 2015, 355-385-388.	0.6	3
26	GDI spray structure analysis by polycapillary X-ray $\langle \text{mml:math xmlns:mml=} \text{"http://www.w3.org/1998/Math/MathML"} \text{ altimg=} \text{"si1.gif"} \text{ overflow=} \text{"scroll"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{1/4} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -tomography. International Journal of Multiphase Flow, 2015, 70, 15-21.	1.6	22
27	IN-CYLINDER OH AND CO <sub>2</sub> * DETECTION IN SI ENGINE THROUGH UV NATURAL EMISSION SPECTROSCOPY. Journal of KONES, 2015, 19, 429-437.	0.2	0
28	OPTICAL INVESTIGATIONS OF ALTERNATIVE FUEL COMBUSTION IN COMMON RAIL COMPRESSION IGNITION ENGINE. Journal of KONES, 2015, 19, 279-288.	0.2	0
29	Chemiluminescence analysis of the effect of butanol-diesel fuel blends on the spray-combustion process in an experimental common rail diesel engine. Thermal Science, 2015, 19, 1943-1957.	0.5	1
30	Optical Properties Investigation of Alternative Fuels Containing Carbon-Based Nanostructures. , 2014, , .		6
31	Experimental Study on the Spray Atomization of a Multi-hole Injector for Spark Ignition Engines Fuelled by Gasoline and n-Butanol. , 2014, , .		4
32	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 - ASCE, 2014, 140, .	1.0	6
33	Optical characterization of combustion processes in a DISI engine equipped with plasma-assisted ignition system. Applied Thermal Engineering, 2014, 69, 177-187.	3.0	22
34	Evaluation of different methods for combined thermodynamic and optical analysis of combustion in spark ignition engines. Energy Conversion and Management, 2014, 87, 914-927.	4.4	28
35	Combustion process investigation in a high speed diesel engine fuelled with n-butanol diesel blend by conventional methods and optical diagnostics. Renewable Energy, 2014, 64, 225-237.	4.3	89
36	Study of mixture formation and early flame development in a research GDI (gasoline direct injection) engine through numerical simulation and UV-digital imaging. Energy, 2014, 77, 88-96.	4.5	62

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37	Spray-combustion process characterization in a common rail diesel engine fuelled with butanol-diesel blends by conventional methods and optical diagnostics. AIMS Energy, 2014, 2, 116-132.	1.1	6
38	Compression ratio and blow-by rates estimation based on motored pressure trace analysis for an optical spark ignition engine. Applied Thermal Engineering, 2013, 61, 101-109.	3.0	49
39	In-cylinder spectroscopic measurements of knocking combustion in a SI engine fuelled with butanol-gasoline blend. Energy, 2013, 62, 150-161.	4.5	45
40	X-ray tomography of high pressure fuel spray by polycapillary optics. Proceedings of SPIE, 2013, , .	0.8	2
41	Desktop X-ray tomography for low contrast samples. Nuclear Instruments & Methods in Physics Research B, 2013, 309, 264-267.	0.6	15
42	UV-Visible Emission Spectroscopy of the Combustion Process in a Common Rail CI Engine Fuelled with N-Butanol - Diesel Blends. Applied Mechanics and Materials, 2013, 390, 286-290.	0.2	1
43	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
44	Tomography of a GDI Spray by PolyCO Based X-Ray Technique. , 2013, , .		3
45	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.	1.3	53
46	Optical diagnostics of the combustion process in a PFI SI boosted engine fueled with butanol-gasoline blend. Energy, 2012, 45, 277-287.	4.5	82
47	UV-Visible Imaging and Natural Emission Spectroscopy of Premixed Combustion in High Swirl Multi-Jets Compression Ignition Engine Fuelled with Diesel-Gasoline Blend. , 2012, , .		2
48	Optical Investigation of the Effect on the Combustion Process of Butanol-Gasoline Blend in a PFI SI Boosted Engine. , 2011, , .		17
49	Gasoline Spray Imaging By Polycapillary X-Ray Technique. , 2010, , .		3
50	PIV Investigation of High Swirl Flow on Spray Structure and its Effect on Emissions in a Diesel-Like Environment. , 0, , .		7
51	Optical Investigation of Premixed Low-Temperature Combustion of Lighter Fuel Blends in Compression Ignition Engines. , 0, , .		9
52	Optical Diagnostics of the Pollutant Formation in a CI Engine Operating with Diesel Fuel Blends. SAE International Journal of Engines, 0, 4, 2543-2558.	0.4	7
53	Studies of Exhaust Emissions and Optical Diagnostic of Spray for Biodiesel Samples with Additives Package using a Common-Rail System. , 0, , .		3
54	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. , 0, , .		1

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55	In-Cylinder Spectroscopic Measurements of Combustion Process in a SI Engine Fuelled with Butanol-Gasoline Blend. , 0, , .		6
56	UV-visible Optical Characterization of the Early Combustion Stage in a DISI Engine Fuelled with Butanol-Gasoline Blend. SAE International Journal of Engines, 0, 6, 1953-1969.	0.4	29
57	Spectroscopic Investigation of Post-Injection Strategy Impact on Fuel Vapor within the Exhaust Line of a Light Duty Diesel Engine Supplied with Diesel/Butanol and Gasoline Blends. , 0, , .		1
58	Flame Contour Analysis through UV-Visible Imaging during Regular and Abnormal Combustion in a DISI Engine. , 0, , .		15
59	Split Injection in a DISI Engine Fuelled with Butanol and Gasoline Analyzed through Integrated Methodologies. SAE International Journal of Engines, 0, 8, 474-494.	0.4	15
60	Water Injection: a Technology to Improve Performance and Emissions of Downsized Turbocharged Spark Ignited Engines. SAE International Journal of Engines, 0, 10, 2319-2329.	0.4	34
61	Water Injection to Enhance Performance and Emissions of a Turbocharged Gasoline Engine under High Load Condition. SAE International Journal of Engines, 0, 10, 928-937.	0.4	47
62	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, 0, 10, 2141-2153.	0.4	36
63	Impact of Cooled EGR on Performance and Emissions of a Turbocharged Spark-Ignition Engine under Low-Full Load Conditions. , 0, , .		7
64	Experimental and 1D Numerical Investigations on the Exhaust Emissions of a Small Spark Ignition Engine Considering the Cylinder-by-Cylinder Variability. , 0, , .		2