

Ezio Mancaruso

List of Publications by Year in descending order

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109
papers

1,285
citations

516215

16
h-index

525886

27
g-index

110
all docs

110
docs citations

110
times ranked

981
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 2008, 9, 483-498.	1.4	60
2	POD-based analysis of combustion images in optically accessible engines. Combustion and Flame, 2010, 157, 632-640.	2.8	59
3	First and second generation biodiesels spray characterization in a diesel engine. Fuel, 2011, 90, 2870-2883.	3.4	55
4	Effect of after-treatment systems on particulate matter emissions in diesel engine exhaust. Experimental Thermal and Fluid Science, 2020, 116, 110107.	1.5	51
5	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, 2017, 159, 200-210.	3.7	49
6	Optical investigation of the combustion behaviour inside the engine operating in HCCI mode and using alternative diesel fuel. Experimental Thermal and Fluid Science, 2010, 34, 346-351.	1.5	47
7	Premixed combustion of GTL and RME fuels in a single cylinder research engine. Applied Energy, 2012, 91, 385-394.	5.1	46
8	POD-based analysis of cycle-to-cycle variations in an optically accessible diesel engine. Proceedings of the Combustion Institute, 2009, 32, 2809-2816.	2.4	43
9	Determination of combustion parameters using engine crankshaft speed. Mechanical Systems and Signal Processing, 2013, 38, 628-633.	4.4	43
10	Ethanol effect as premixed fuel in dual-fuel CI engines: Experimental and numerical investigations. Applied Energy, 2014, 119, 394-404.	5.1	36
11	Spectroscopic measurements of premixed combustion in diesel engine. Fuel, 2011, 90, 511-520.	3.4	30
12	Effects of a biodiesel blend on energy distribution and exhaust emissions of a small CI engine. Energy Conversion and Management, 2015, 96, 72-80.	4.4	30
13	Characterization of particle number and mass size distributions from a small compression ignition engine operating in diesel/methane dual fuel mode. Fuel, 2016, 180, 613-623.	3.4	27
14	Alternative Diesel Fuels Effects on Combustion and Emissions of an Euro4 Automotive Diesel Engine. SAE International Journal of Engines, 0, 2, 542-561.	0.4	22
15	Experimental investigation in an optically accessible diesel engine of a fouled piezoelectric injector. Energy, 2014, 64, 842-852.	4.5	22
16	Spectroscopic analysis of the phases of premixed combustion in a compression ignition engine fuelled with diesel and ethanol. Applied Energy, 2015, 143, 164-175.	5.1	22
17	Reconstruction of In-Cylinder Pressure in a Diesel Engine from Vibration Signal Using a RBF Neural Network Model. , 0, ,		20
18	Analysis of the pilot injection running Common Rail strategies in a research diesel engine by means of infrared diagnostics and 1d model. Fuel, 2016, 178, 188-201.	3.4	20

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19	Analysis of Diesel engine combustion using imaging and independent component analysis. Proceedings of the Combustion Institute, 2013, 34, 2921-2931.	2.4	19
20	Accelerometer measurement for MFB evaluation in multi-cylinder diesel engine. Energy, 2017, 133, 843-850.	4.5	19
21	In-Cylinder Combustion Analysis by Flame Emission Spectroscopy of Transparent CR Diesel Engine. , 2003, , .		18
22	Combustion Analysis of Dual Fuel Operation in Single Cylinder Research Engine Fuelled with Methane and Diesel. , 0, , .		18
23	Analysis of spray injection in a light duty CR diesel engine supported by non-conventional measurements. Fuel, 2015, 158, 512-522.	3.4	18
24	Effects of both blended and pure biodiesel on waste heat recovery potentiality and exhaust emissions of a small CI (compression ignition) engine. Energy, 2015, 86, 661-671.	4.5	16
25	Evidence of sub-10 μ m particles emitted from a small-size diesel engine. Experimental Thermal and Fluid Science, 2018, 95, 60-64.	1.5	15
26	Multiwavelength ultraviolet absorption spectroscopy of NO and OH radical concentration applied to a high-swirl diesel-like system. Experimental Thermal and Fluid Science, 2004, 28, 355-367.	1.5	14
27	Extinction and Chemiluminescence Measurements in CR DI Diesel Engine Operating in HCCI Mode. , 0, , .		14
28	Diagnosis and Control of Advanced Diesel Combustions using Engine Vibration Signal. , 0, , .		14
29	Assessment of the New Features of a Prototype High-Pressure μ -Hollow Cone Spray μ -Diesel Injector by Means of Engine Performance Characterization and Spray Visualization. , 0, , .		14
30	Characterization of pure and blended biodiesel spray in a compression ignition engine by means of advanced diagnostics and 1D model. Fuel, 2019, 239, 1102-1114.	3.4	14
31	Investigation by modelling of a plug-in hybrid electric commercial vehicle with diesel engine on WLTC. Fuel, 2022, 317, 123519.	3.4	14
32	Use of Vibration Signal for Diagnosis and Control of a Four-Cylinder Diesel Engine. , 0, , .		13
33	GTL (Gas To Liquid) and RME (Rapeseed Methyl Ester) combustion analysis in a transparent CI (compression ignition) engine by means of μ IR (Infrared) digital imaging. Energy, 2013, 58, 185-191.	4.5	13
34	Investigation of the combustion in both metal and optical diesel engines using high-glycerol ethers/diesel blends. International Journal of Engine Research, 2015, 16, 38-51.	1.4	13
35	Analysis of combustion phenomena and pollutant formation in a small compression ignition engine fuelled with blended and pure rapeseed methyl ester. Energy, 2016, 106, 618-630.	4.5	13
36	Study on dual fuel combustion in an optical research engine by infrared diagnostics varying methane quantity and engine speed. Applied Thermal Engineering, 2020, 178, 115623.	3.0	13

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37	Combustion Analysis in an Optical Diesel Engine Operating with Low Compression Ratio and Biodiesel Fuels. , 2010, , .		12
38	An experimental comparison of n-Heptane, RME and diesel fuel on combustion characteristics in a compression ignition engine. Fuel Processing Technology, 2013, 107, 44-49.	3.7	12
39	ANN-based Virtual Sensor for On-line Prediction of In-cylinder Pressure in a Diesel Engine. Computer Aided Chemical Engineering, 2014, 33, 763-768.	0.3	12
40	Analysis of a Prototype High-Pressure Hollow Cone Spray Diesel Injector Performance in Optical and Metal Research Engines. , 0, , .		12
41	UV-Visible Spectroscopic Measurements of Dual-Fuel PCCI Engine. SAE International Journal of Fuels and Lubricants, 0, 4, 271-281.	0.2	11
42	UV-Visible Imaging of PCCI Engine Running with Ethanol/Diesel Fuel. , 0, , .		11
43	N-heptane ignition delay time with temperature criterion for HCCI combustion. Fuel, 2018, 225, 483-489.	3.4	11
44	Evaluation of RME (rapeseed methyl ester) and mineral diesel fuels behaviour in quiescent vessel and EURO 5 engine. Energy, 2014, 77, 783-790.	4.5	10
45	A comprehensive analysis of the impact of biofuels on the performance and emissions from compression and spark-ignition engines. International Journal of Engine Research, 2015, 16, 680-690.	1.4	10
46	Spray Formation and Combustion Analysis in an Optical Single Cylinder Engine Operating with Fresh and Aged Biodiesel. SAE International Journal of Engines, 0, 4, 1963-1977.	0.4	9
47	Towards On-Line Prediction of the In-Cylinder Pressure in Diesel Engines from Engine Vibration Using Artificial Neural Networks. , 0, , .		9
48	Comparison of Spray Characteristics Measured in an Optical Single Cylinder Diesel Engine with 1D Model. , 0, , .		9
49	Combined CFD - Experimental Analysis of the In-Cylinder Combustion Phenomena in a Dual Fuel Optical Compression Ignition Engine. , 0, , .		9
50	Renewable Biodiesel/Reference Diesel Fuel Mixtures Distribution in Non-Evaporating and Evaporating Conditions for Diesel Engines. , 0, , .		8
51	CFD Analysis of the Combustion Process in Dual-Fuel Diesel Engine. , 0, , .		8
52	Measurements and modeling of piston temperature in a research compression ignition engine during transient conditions. Results in Engineering, 2019, 2, 100007.	2.2	8
53	Diesel/Methane Dual Fuel Strategy to Improve Environmental Performance of Energy Power Systems. International Journal of Heat and Technology, 2016, 34, S581-S588.	0.3	8
54	Engine Performance and Emissions of a Small Diesel Engine Fueled with Various Diesel/RME Blends. , 0, , .		7

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55	Investigation of the Injection Process in a Research CR Diesel Engine using Different Blends of Propane-Diesel Fuel. , 0, , .		7
56	Temperature Measurements of the Piston Optical Window in a Research Compression Ignition Engine Via Thermography and Templugs. , 0, , .		7
57	CFD Study and Experimental Validation of a Dual Fuel Engine: Effect of Engine Speed. Energies, 2021, 14, 4307.	1.6	7
58	Modeling Study of the Battery Pack for the Electric Conversion of a Commercial Vehicle. , 0, , .		7
59	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. , 2009, , .		6
60	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, 0, 6, 1677-1693.	0.4	6
61	Characterization of PCCI Combustion in a Single Cylinder CI Engine Fuelled with RME and Bio-Ethanol. , 0, , .		6
62	Spray and Soot Formation Analysis by Means of a Quasi-Dimensional Multizone Model in a Single Cylinder Diesel Engine under Euro 4 Operating Conditions. SAE International Journal of Engines, 0, 8, 2050-2067.	0.4	6
63	Characterization of Combustion and Emissions of a Propane-Diesel Blend in a Research Diesel Engine. , 0, , .		6
64	Performance, Gaseous and Particle Emissions of a Small Compression Ignition Engine Operating in Diesel/Methane Dual Fuel Mode. , 2016, , .		6
65	Endoscopic Investigation of Combustion Process in a Small Compression Ignition Engine Fuelled with Rapeseed Methyl Ester. , 0, , .		5
66	Using 2d Infrared Imaging for the Analysis of Non-Conventional Fuels Combustion in a Diesel Engine. SAE International Journal of Engines, 2015, 8, 1701-1715.	0.4	5
67	Real Time Prediction of Particle Sizing at the Exhaust of a Diesel Engine by Using a Neural Network Model. SAE International Journal of Engines, 0, 10, 2202-2208.	0.4	5
68	Analysis of Dual Fuel Combustion in Single Cylinder Research Engine Fueled with Methane and Diesel by IR Diagnostics. , 0, , .		5
69	Extinction and Chemiluminescence Measurements of HCCI Mode in Diesel Engine Operating with Late Injection. , 0, , .		4
70	Investigation of Diesel Injector Nozzle Flow Number Impact on Spray Formation and Combustion Evolution by Optical Diagnostics. , 0, , .		4
71	Study on Spray Injection and Combustion of Fouled and Cleaned Injectors by Means of 2-D Digital Imaging in a Transparent CR Diesel Engine. , 0, , .		4
72	Independent Component Analysis of Combustion Images in Optically Accessible Gasoline and Diesel Engines. , 0, , .		4

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73	IR digital imaging for analysing in-cylinder combustion process in transparent diesel engine. , 2014, , .		4
74	Infrared/Visible Optical Diagnostics of RCCI Combustion with Dieseline in a Compression Ignition Engine. , 0, , .		4
75	IR Imaging of Premixed Combustion in a Transparent Euro5 Diesel Engine. , 0, , .		3
76	Characterization of Soot Particles Produced in a Transparent Research CR DI Diesel Engine Operating with Conventional and Advanced Combustion Strategies. Aerosol Science and Technology, 2012, 46, 272-286.	1.5	3
77	Coking Effect of Different FN Nozzles on Injection and Combustion in an Optically Accessible Diesel Engine. , 2013, , .		3
78	Effect of Diesel/RME Blend on Particle Emissions from a Diesel Engine for Quadricycle Vehicle. , 0, , .		3
79	Characterization of Combustion and Emissions in Light-Duty Diesel Engines Using High-Glycerol-Ethers/Diesel Blends. , 0, , .		3
80	Experimental and Numerical Characterization of Diesel Injection in Single-Cylinder Research Engine with Rate Shaping Strategy. , 0, , .		3
81	Nonlinear Systems and Circuits in Internal Combustion Engines. SpringerBriefs in Applied Sciences and Technology, 2018, , .	0.2	2
82	EVALUATION OF THE VAPORIZATION ENERGY OF A DIESEL AND A BIODIESEL SPRAY VIA INFRARED IMAGING AND 1D MODEL. Computational Thermal Sciences, 2019, 11, 285-296.	0.5	2
83	EVALUATION OF THE VAPORIZATION ENERGY OF A FUEL SPRAY IN A RESEARCH ENGINE USING INFRARED IMAGING AND 1D MODEL. , 2017, , .		2
84	Chemical and Physical Characteristics of Organic Particulate Matter from Exhaust After-Treatment System of Euro 6 Diesel Engine Operating at Full Load. , 0, , .		2
85	USE OF MINERAL DIESEL, FIRST-, AND SECOND-GENERATION BIODIESELS IN MODERN COMMON RAIL INJECTION SYSTEMS UNDER NONEVAPORATIVE AND EVAPORATIVE CONDITIONS. Atomization and Sprays, 2012, 22, 97-121.	0.3	2
86	Diesel/Methane Dual Fuel Strategy to Improve Environmental Performance of Energy Power Systems. International Journal of Heat and Technology, 2016, 34, S581-S588.	0.3	2
87	Artificial Intelligence for Modeling and Control of Nonlinear Phenomena in Internal Combustion Engines. SpringerBriefs in Applied Sciences and Technology, 2018, , 1-19.	0.2	2
88	A Mixing Timescale Model for PDF Simulations of LTC Combustion Process in Internal Combustion Engines. , 0, , .		2
89	1D Modeling of Alternative Fuels Spray in a Compression Ignition Engine Using Injection Rate Shaping Strategy. , 0, , .		2
90	Modeling of Soot Deposition and Active Regeneration in Wall-flow DPF and Experimental Validation. , 0, , .		2

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91	Experimental Study on the Combustion Monitoring via the Turbocharger Speed Fluctuations by Vibration Measurement. SAE International Journal of Engines, 0, 13, .	0.4	2
92	Soot Formation Analysis by Multiwavelength Spectroscopy in an External Chamber Diesel Engine Equipped with a CR Injection System. , 2003, , .		1
93	Optical Investigation of Injection and Combustion Phases of a Fouled Piezoelectric Injector in a Transparent CR Diesel Engine. , 0, , .		1
94	In-cylinder Combustion Process Analysis of a Small Compression Ignition Engine Fuelled with Both Blended and Pure Biofuel. Energy Procedia, 2015, 66, 29-32.	1.8	1
95	Infrared Imaging in Internal Combustion Engines: Advanced Techniques for Vapor Phase Visualization and CO2 Detection. Journal of Physics: Conference Series, 2020, 1589, 012018.	0.3	1
96	EVALUATION OF THE VAPORIZATION ENERGY OF A FUEL SPRAY IN A RESEARCH ENGINE USING INFRARED IMAGING AND 1D MODEL. , 2017, , .		1
97	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. , 0, , .		1
98	Alternative Diesel Fuels Characterization in Non-Evaporating and Evaporating Conditions for Diesel Engines. SAE International Journal of Fuels and Lubricants, 2010, 3, 219-228.	0.2	0
99	Experimental Study of Injection and Combustion in a Diesel Engine for Heavy Quadricycle Use. , 2012, , .		0
100	Dynamic Analysis of Emission Spectra in HCCI Combustion. , 0, , .		0
101	Diagnosis and Control of Engine Combustion Using Vibration Signals. SpringerBriefs in Applied Sciences and Technology, 2018, , 47-54.	0.2	0
102	Analysis of Combustion Process in a Transparent Common Rail Diesel Engine by 2D Digital Imaging and Flame Emission Spectroscopy. , 2003, , .		0
103	FL2-3 Effect of biofuels on particle formation and emission from research CR diesel engine(FL: Tj ETQq1 1 0.784314 rgBT /Overlock 1 Modeling of Combustion in Internal Combustion Engines, 2012, 2012.8, 343-349.	0.1	0
104	Application of RBF neural networks for real-time pressure prediction in a Diesel engine. International Journal of Engineering and Technology(UAE), 2015, 4, 497.	0.2	0
105	Non-interfering Diagnostics for the Study of Thermo-Fluid Dynamic Processes. SpringerBriefs in Applied Sciences and Technology, 2018, , 21-32.	0.2	0
106	Identification and Compensation of Nonlinear Phenomena in Gasoline Direct Injection Process. SpringerBriefs in Applied Sciences and Technology, 2018, , 73-77.	0.2	0
107	Use of in-Cylinder Pressure and Learning Circuits for Engine Modeling and Control. SpringerBriefs in Applied Sciences and Technology, 2018, , 55-71.	0.2	0
108	Investigation by Modelling of a Hybrid Electric Commercial Vehicle with Diesel Engine on WLTC. SSRN Electronic Journal, 0, , .	0.4	0

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109	Analogies in the Analysis of the Thermal Status of Batteries and Internal Combustion Engines for Mobility. <i>Energies</i> , 2022, 15, 2700.	1.6	0