

Silvana

List of Publications by Year in descending order

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79
papers

1,164
citations

516215

16
h-index

552369

26
g-index

80
all docs

80
docs citations

80
times ranked

807
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative investigation on the impact of injection timing on soot formation in a GDI engine with a customized sectional method. International Journal of Engine Research, 2022, 23, 624-637.	1.4	8
2	Effect of fuel quality on combustion evolution and particle emissions from PFI and GDI engines fueled with gasoline, ethanol and blend, with focus on 10 ²³ Ånm particles. Energy, 2022, 239, 122198.	4.5	24
3	Measurement of Sub-23 nm Particles Emitted from PFI/DI SI Engine Fueled with Oxygenated Fuels: A Comparison between Conventional and Novel Methodologies. Energies, 2022, 15, 2021.	1.6	4
4	Effect of ethanol blends, E10, E25 and E85 on sub-23Ånm particle emissions and their volatile fraction at exhaust of a high-performance GDI engine over the WLTC. Fuel, 2022, 327, 125184.	3.4	7
5	Investigation on sub-23 nm particles and their volatile organic fraction (VOF) in PFI/DI spark ignition engine fueled with gasoline, ethanol and a 30 %v/v ethanol blend. Journal of Aerosol Science, 2021, 153, 105723.	1.8	18
6	Conventional and novel measurement systems for sub-23 nm particles emitted by SI engine fueled with low formation particulate fuels. , 2021, , .		0
7	Influence of ethanol blended and dual fueled with gasoline on soot formation and particulate matter emissions in a small displacement spark ignition engine. Fuel, 2019, 245, 253-262.	3.4	36
8	Opto-thermal analysis of the combustion process in a DISI engine fueled with gasoline and ethanol. AIP Conference Proceedings, 2019, , .	0.3	1
9	Evaluation of compression ratio and blow-by rates for spark ignition engines based on in-cylinder pressure trace analysis. Energy Conversion and Management, 2018, 162, 98-108.	4.4	23
10	Investigation on the effects of butanol and ethanol fueling on combustion and PM emissions in an optically accessible DISI engine. Fuel, 2018, 216, 121-141.	3.4	33
11	Influence of Combustion Efficiency on the Operation of Spark Ignition Engines Fueled with Methane and Hydrogen Investigated in a Quasi-Dimensional Simulation Framework. , 2018, , .		3
12	Evidence of sub-10 ⁶ nm particles emitted from a small-size diesel engine. Experimental Thermal and Fluid Science, 2018, 95, 60-64.	1.5	15
13	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
14	Optimization of the compressed natural gas direct injection in a small research spark ignition engine. International Journal of Engine Research, 2017, 18, 118-130.	1.4	6
15	Effects of natural gas composition on performance and regulated, greenhouse gas and particulate emissions in spark-ignition engines. Energy Conversion and Management, 2017, 143, 338-347.	4.4	53
16	Effects of lubricant oil on particulate emissions from port-fuel and direct-injection spark-ignition engines. International Journal of Engine Research, 2017, 18, 606-620.	1.4	41
17	Spectroscopic characterization of energy transfer and thermal conditions of the flame kernel in a spark ignition engine fueled with methane and hydrogen. International Journal of Hydrogen Energy, 2017, 42, 13276-13288.	3.8	22
18	Biofuel effect on flame propagation and soot formation in a DISI engine. IOP Conference Series: Materials Science and Engineering, 2017, 252, 012092.	0.3	2

#	ARTICLE	IF	CITATIONS
19	Correlation between Simulated Volume Fraction Burned Using a Quasi-Dimensional Model and Flame Area Measured in an Optically Accessible SI Engine. , 2017, , .		6
20	Experimental Investigations on the Sources of Particulate Emission within a Natural Gas Spark-Ignition Engine. , 2017, , .		10
21	Effect of Fuel Injection Strategy on the Carbonaceous Structure Formation and Nanoparticle Emission in a DI SI Engine Fuelled with Butanol. Energies, 2017, 10, 832.	1.6	12
22	NUMERICAL INVESTIGATION OF ENGINE SPEED AND FUEL COMPOSITION EFFECTS ON CONVECTIVE HEAT TRANSFER IN A SPARK IGNITION ENGINE FUELLED WITH METHANE-HYDROGEN BLENDS. , 2017, , .		1
23	NUMERICAL INVESTIGATION OF ENGINE SPEED AND FUEL COMPOSITION EFFECTS ON CONVECTIVE HEAT TRANSFER IN A SPARK IGNITION ENGINE FUELLED WITH METHANE-HYDROGEN BLENDS. , 2017, , .		0
24	Experimental Analysis of O2 Addition on Engine Performance and Exhaust Emissions from a Small Displacement SI Engine. , 2016, , .		0
25	Performance, Gaseous and Particle Emissions of a Small Compression Ignition Engine Operating in Diesel/Methane Dual Fuel Mode. , 2016, , .		6
26	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
27	Analysis of energy efficiency of methane and hydrogen-methane blends in a PFI/DI SI research engine. Energy, 2016, 117, 378-387.	4.5	34
28	Analysis of combustion of methane and hydrogen-methane blends in small DI SI (direct injection spark) Tj ETQq0,0,0 rgBT /Overlock 1	4.5	45
29	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
30	Effects of Ethanol and Gasoline Blending and Dual Fueling on Engine Performance and Emissions.. , 2015, , .		8
31	Experimental Analysis of a Gasoline PFI-Methane DI Dual Fuel and an Air Assisted Combustion of a Transparent Small Displacement SI Engine. , 2015, , .		4
32	Experimental Characterization of an Ethanol DI - Gasoline PFI and Gasoline DI - Gasoline PFI Dual Fuel Small Displacement SI Engine. , 2015, , .		8
33	A comprehensive analysis of the effect of ethanol, methane and methane-hydrogen blend on the combustion process in a PFI (port fuel injection) engine. Energy, 2015, 88, 101-110.	4.5	77
34	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
35	Characterization of Ethanol-Gasoline Blends Combustion processes and Particle Emissions in a GDI/PFI Small Engine. , 2014, , .		24
36	Experimental investigation on the combustion process in a spark ignition optically accessible engine fueled with methane/hydrogen blends. International Journal of Hydrogen Energy, 2014, 39, 9809-9823.	3.8	64

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37	Spectroscopic techniques for the evaluation of the in-cylinder air fuel ratio in a small optical SI engine fueled with methane and hydrogen/methane blends. , 2014, , .		1
38	Experimental investigation of the effects of AFR, spark advance and EGR on nanoparticle emissions in a PFI SI engine. Journal of Aerosol Science, 2013, 64, 1-10.	1.8	27
39	Characterization of CH4 and CH4/H2 Mixtures Combustion in a Small Displacement Optical Engine. SAE International Journal of Fuels and Lubricants, 2013, 6, 24-33.	0.2	12
40	Characterization of Ethanol Blends Combustion Processes and Soot Formation in a GDI Optical Engine. , 2013, , .		23
41	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
42	Soot particle size and pollutant emissions characterization from a LD diesel engine equipped with high pressure and low pressure EGR system and operated with conventional and PCCI combustion. International Journal of Vehicle Design, 2012, 59, 82.	0.1	1
43	Optical Characterization of Methane Combustion in a Four Stroke Engine for Two Wheel Application. , 2012, , .		3
44	Detailed characterization of particulate emissions of an automotive catalyzed DPF using actual regeneration strategies. Experimental Thermal and Fluid Science, 2012, 39, 45-53.	1.5	69
45	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
46	Assessment of biodiesel blending detection capability of the on-board diagnostic of the last generation automotive diesel engines. Fuel, 2011, 90, 2039-2044.	3.4	12
47	Experimental analysis of alternative fuel impact on a new "torque-controlled" light-duty diesel engine for passenger cars. Fuel, 2010, 89, 3278-3286.	3.4	23
48	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
49	Alternative Diesel Fuels Effects on Combustion and Emissions of an Euro5 Automotive Diesel Engine. SAE International Journal of Fuels and Lubricants, 0, 3, 107-132.	0.2	31
50	Impact of RME and GTL Fuel on Combustion and Emissions of a "Torque-Controlled" Diesel Automotive Engines. SAE International Journal of Fuels and Lubricants, 0, 3, 118-134.	0.2	10
51	Experimental Characterization of Nanoparticles Emissions in a Port Fuel Injection Spark Ignition Engine. , 0, , .		2
52	Assessment of Closed-Loop Combustion Control Capability for Biodiesel Blending Detection and Combustion Impact Mitigation for an Euro5 Automotive Diesel Engine. , 0, , .		15
53	Particle Size Distributions from a DI High Performance SI Engine Fuelled with Gasoline-Ethanol Blended Fuels. , 0, , .		30
54	Use of Renewable Oxygenated Fuels in Order to Reduce Particle Emissions from a GDI High Performance Engine. , 0, , .		17

#	ARTICLE	IF	CITATIONS
55	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. SAE International Journal of Engines, 0, 4, 2510-2518.	0.4	8
56	Analysis of Diesel Injector Nozzle Flow Number Impact on Emissions and Performance of a Euro5 Automotive Diesel Engine. , 0, , .		2
57	Impact of Biodiesel on Particle Emissions and DPF Regeneration Management in a Euro5 Automotive Diesel Engine. , 0, , .		14
58	Experimental Investigation of a Methane-Gasoline Dual-Fuel Combustion in a Small Displacement Optical Engine. , 0, , .		23
59	Engine Performance and Emissions of a Small Diesel Engine Fueled with Various Diesel/RME Blends. , 0, , .		7
60	Investigation of Ethanol-Gasoline Dual Fuel Combustion on the Performance and Exhaust Emissions of a Small SI Engine. , 0, , .		9
61	Ethanol Addition Influence on Backfire Phenomena during Kickback in a Spark-Ignition Transparent Small Engine. , 0, , .		0
62	An experimental investigation on combustion and engine performance and emissions of a methane-gasoline dual-fuel optical engine. , 0, , .		20
63	Effect of Diesel/RME Blend on Particle Emissions from a Diesel Engine for Quadricycle Vehicle. , 0, , .		3
64	Effect of Octane Number Obtained with Different Oxygenated Components on the Engine Performance and Emissions of a Small GDI Engine. , 0, , .		8
65	On the Entrainment Velocity and Characteristic Length Scales Used for Quasi-Dimensional Turbulent Combustion Modeling in Spark Ignition Engines. , 0, , .		3
66	Particle Formation and Emissions in an Optical Small Displacement SI Engine Dual Fueled with CNG DI and Gasoline PFI. , 0, , .		11
67	In-Cylinder Soot Formation and Exhaust Particle Emissions in a Small Displacement Spark Ignition Engine Operating with Ethanol Mixed and Dual Fueled with Gasoline. , 0, , .		9
68	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
69	Sub-23 nm Particle Measurement and Assessment of Their Volatile Fraction at Exhaust of a Four Cylinder GDI Engine Fueled with E10 and E85 Under Transient Conditions. , 0, , .		2
70	Laminar Flame Speed Based Optimization of Efficiency and Emissions for Methane-Hydrogen Fueled SI Micro-Generators. , 0, , .		3
71	Experimental and Numerical Investigation of a Passive Pre-Chamber Jet Ignition Single-Cylinder Engine. , 0, , .		5
72	Analysis of the Effect of the Sampling Conditions on the sub-23 nm Particles Emitted by a Small Displacement PFI and DI SI Engines Fueled with Gasoline, Ethanol and a Blend. , 0, , .		4

#	ARTICLE	IF	CITATIONS
73	Development of a Sectional Soot Model Based Methodology for the Prediction of Soot Engine-Out Emissions in GDI Units. , 0, , .		6
74	Sub-23 nm Particle Emissions from Gasoline Direct Injection Vehicles and Engines: Sampling and Measure. , 0, , .		9
75	Turbulent Jet Ignition Effect on Exhaust Emission and Efficiency of a SI Small Engine Fueled with Methane and Gasoline. , 0, , .		4
76	Quasi-Dimensional Simulation of Downsizing and Inverter Application for Efficient Part Load Operation of Spark Ignition Engine Driven Micro-Cogeneration Systems. , 0, , .		6
77	Experimental Investigation of a Fueled Prechamber Combustion in an Optical Small Displacement SI Methane Engine. , 0, , .		7
78	Effects of Prechamber on Efficiency Improvement and Emissions Reduction of a SI Engine Fuelled with Gasoline. , 0, , .		3
79	Analysis of the Combustion Process of SI Engines Equipped with Non-Conventional Ignition System Architecture. , 0, , .		3