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List of Publications by Year in descending order

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docs citations

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times ranked

522
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance and fuel conversion efficiency of a spark ignition engine fueled with iso-butanol. Applied Energy, 2012, 96, 477-483.	10.1	97
2	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.	6.0	49
3	A RANS knock model to predict the statistical occurrence of engine knock. Applied Energy, 2017, 191, 251-263.	10.1	44
4	Fuel conversion efficiency of a port injection engine fueled with gasoline and isobutanol blends. Energy, 2011, 36, 3030-3035.	8.8	40
5	CFD Analysis of Combustion and Knock in an Optically Accessible GDI Engine. SAE International Journal of Engines, 0, 9, 641-656.	0.4	37
6	Flame Front Propagation in an Optical GDI Engine under Stoichiometric and Lean Burn Conditions. Energies, 2017, 10, 1337.	3.1	34
7	Development of a semi-empirical convective heat transfer correlation based on thermodynamic and optical measurements in a spark ignition engine. Applied Energy, 2015, 157, 777-788.	10.1	33
8	Development of a RANS-Based Knock Model to Infer the Knock Probability in a Research Spark-Ignition Engine. SAE International Journal of Engines, 0, 10, 722-739.	0.4	33
9	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.	6.4	33
10	Numerical Simulation of Gasoline and n-Butanol Combustion in an Optically Accessible Research Engine. SAE International Journal of Fuels and Lubricants, 0, 10, 32-55.	0.2	32
11	Effect of injection timing on combustion and soot formation in a direct injection spark ignition engine fueled with butanol. International Journal of Engine Research, 2017, 18, 490-504.	2.3	30
12	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
13	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.	8.8	29
14	Evaluation of different methods for combined thermodynamic and optical analysis of combustion in spark ignition engines. Energy Conversion and Management, 2014, 87, 914-927.	9.2	28
15	Application of an entrainment turbulent combustion model with validation based on the distribution of chemical species in an optical spark ignition engine. Applied Energy, 2016, 162, 908-923.	10.1	26
16	Development of Chemistry-Based Laminar Flame Speed Correlation for Part-Load SI Conditions and Validation in a GDI Research Engine. SAE International Journal of Engines, 0, 11, 715-741.	0.4	26
17	Cycle-resolved visualization of pre-ignition and abnormal combustion phenomena in a GDI engine. Energy Conversion and Management, 2016, 127, 380-391.	9.2	23
18	Effect of coolant temperature on air-fuel mixture formation and combustion in an optical direct injection spark ignition engine fueled with gasoline and butanol. Journal of the Energy Institute, 2017, 90, 452-465.	5.3	23

#	ARTICLE	IF	CITATIONS
19	Evaluation of compression ratio and blow-by rates for spark ignition engines based on in-cylinder pressure trace analysis. <i>Energy Conversion and Management</i> , 2018, 162, 98-108.	9.2	23
20	Influence of Engine Speed and Injection Phasing on Lean Combustion for Different Dilution Rates in an Optically Accessible Wall-Guided Spark Ignition Engine. <i>SAE International Journal of Engines</i> , 0, 11, 1343-1369.	0.4	23
21	Optical characterization of combustion processes in a DISI engine equipped with plasma-assisted ignition system. <i>Applied Thermal Engineering</i> , 2014, 69, 177-187.	6.0	22
22	Spectroscopic characterization of energy transfer and thermal conditions of the flame kernel in a spark ignition engine fueled with methane and hydrogen. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13276-13288.	7.1	22
23	Study of cold start air-fuel mixture parameters for spark ignition engines fueled with gasoline-isobutanol blends. <i>International Communications in Heat and Mass Transfer</i> , 2010, 37, 1203-1207.	5.6	21
24	Convective heat transfer equation for turbulent flow in tubes applied to internal combustion engines operated under motored conditions. <i>Applied Thermal Engineering</i> , 2013, 50, 536-545.	6.0	19
25	Performance and emissions of a small scale generator powered by a spark ignition engine with adaptive fuel injection control. <i>Applied Energy</i> , 2014, 121, 196-206.	10.1	19
26	Flame Contour Analysis through UV-Visible Imaging during Regular and Abnormal Combustion in a DISI Engine. , 0, , .		15
27	Split Injection in a DISI Engine Fuelled with Butanol and Gasoline Analyzed through Integrated Methodologies. <i>SAE International Journal of Engines</i> , 0, 8, 474-494.	0.4	15
28	Numerical Simulation and Flame Analysis of Combustion and Knock in a DISI Optically Accessible Research Engine. <i>SAE International Journal of Engines</i> , 0, 10, 576-592.	0.4	15
29	Influence of water injection on combustion identified through spectroscopy in an optical direct injection spark ignition engine. <i>Fuel</i> , 2020, 273, 117729.	6.4	15
30	Flame Front and Burned Gas Characteristics for Different Split Injection Ratios and Phasing in an Optical GDI Engine. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 449.	2.5	14
31	Working Fluid Properties Variation During Combustion in Premixed Charge Hydrogen Engines. , 0, , .		13
32	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, .	1.9	13
33	Effect of Fuel Injection Strategy on the Carbonaceous Structure Formation and Nanoparticle Emission in a DISI Engine Fuelled with Butanol. <i>Energies</i> , 2017, 10, 832.	3.1	12
34	Estimation of operational parameters for a direct injection turbocharged spark ignition engine by using regression analysis and artificial neural network. <i>Thermal Science</i> , 2017, 21, 401-412.	1.1	12
35	Experimental Evaluation of an Advanced Ignition System for GDI Engines. <i>SAE International Journal of Engines</i> , 0, 8, 2351-2367.	0.4	9
36	Combustion Process Investigation in a DISI Engine Fuelled with n-butanol Through Digital Imaging and Chemiluminescence. , 0, , .		8

#	ARTICLE	IF	CITATIONS
37	Numerical Investigation of Water Injection Effects on Flame Wrinkling and Combustion Development in a GDI Spark Ignition Optical Engine. , 0, , .		8
38	Optical Properties Investigation of Alternative Fuels Containing Carbon-Based Nanostructures. , 2014, , .		6
39	Correlation between Simulated Volume Fraction Burned Using a Quasi-Dimensional Model and Flame Area Measured in an Optically Accessible SI Engine. , 2017, , .		6
40	Back-Pressure and Fuel Type Effects on Exhaust Gas Oxygen Sensor Readings for a Single Cylinder Spark Ignition Engine Running on Gasoline and Ethanol. , 0, , .		6
41	Development of a Sectional Soot Model Based Methodology for the Prediction of Soot Engine-Out Emissions in GDI Units. , 0, , .		6
42	Quasi-Dimensional Simulation of Downsizing and Inverter Application for Efficient Part Load Operation of Spark Ignition Engine Driven Micro-Cogeneration Systems. , 0, , .		6
43	Plasma Assisted Ignition Effects on a DISI Engine Fueled with Gasoline and Butanol under Lean Conditions and with EGR. , 0, , .		4
44	On the Entrainment Velocity and Characteristic Length Scales Used for Quasi-Dimensional Turbulent Combustion Modeling in Spark Ignition Engines. , 0, , .		3
45	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
46	Laminar Flame Speed Based Optimization of Efficiency and Emissions for Methane-Hydrogen Fueled SI Micro-Generators. , 0, , .		3
47	Experimental and Numerical Investigation of the Flow Field Effect on Arc Stretching for a J-type Spark Plug. , 0, , .		3
48	Green pathway to a new fuel extender: continuous flow catalytic synthesis of butanol/butyl butyrate mixtures. RSC Advances, 2020, 10, 3130-3136.	3.6	2
49	Implementation of a Multi-Zone Numerical Blow-by Model and Its Integration with CFD Simulations for Estimating Collateral Mass and Heat Fluxes in Optical Engines. Energies, 2021, 14, 8566.	3.1	2
50	Lean Burn Flame Kernel Characterization for Different Spark Plug Designs and Orientations in an Optical GDI Engine. Energies, 2022, 15, 3393.	3.1	2
51	Effect of Electrode Geometry on Flame Kernel Development in a DI SI Engine. Proceedings in Automotive Engineering, 2019, , 481-493.	0.1	1
52	Influence of Dwell Time for Double Injection Strategies in a Wall Guided GDI Engine. Proceedings in Automotive Engineering, 2019, , 494-502.	0.1	1