

Ireneusz Pielecha

List of Publications by Year in descending order

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67
papers

423
citations

840585

11
h-index

996849

15
g-index

67
all docs

67
docs citations

67
times ranked

193
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of alcohol admixture with gasoline on carbon build-up and fuel injectors performance. <i>Eksploracja I Niezawodnosc</i> , 2022, 24, 226-236.	1.1	3
2	Use of hydrogen fuel in drive systems of rail vehicles. <i>Pojazdy Szynowe</i> , 2022, , 10-19.	0.4	10
3	Effects of Ethanol Admixtures with Gasoline on Fuel Atomization Characteristics Using High-Pressure Injectors. <i>Energies</i> , 2022, 15, 2926.	1.6	0
4	Two Generations of Hydrogen Powertrain – An Analysis of the Operational Indicators in Real Driving Conditions (RDC). <i>Energies</i> , 2022, 15, 4734.	1.6	8
5	Effects of mixture formation strategies on combustion in dual-fuel engines – a review. <i>Silniki Spalinowe</i> , 2021, 184, 30-40.	0.4	3
6	The Influence of Engine Downsizing in Hybrid Powertrains on the Energy Flow Indicators under Actual Traffic Conditions. <i>Energies</i> , 2021, 14, 2872.	1.6	9
7	Combustion Thermodynamics of Ethanol, n-Heptane, and n-Butanol in a Rapid Compression Machine with a Dual Direct Injection (DDI) Supply System. <i>Energies</i> , 2021, 14, 2729.	1.6	6
8	Fuel Cell Electric Vehicle (FCEV) Energy Flow Analysis in Real Driving Conditions (RDC). <i>Energies</i> , 2021, 14, 5018.	1.6	22
9	The Assessment of Autoignition of Modified Jet Fuels. <i>Energies</i> , 2021, 14, 633.	1.6	1
10	Energy management system of the hybrid ultracapacitor-battery electric drive vehicles. <i>Archives of Transport</i> , 2021, 58, 47-62.	0.4	5
11	Simulation analysis of electric vehicles energy consumption in driving tests. <i>Eksploracja I Niezawodnosc</i> , 2020, 22, 130-137.	1.1	20
12	Control algorithms for a Range Extender vehicle with an combustion engine. <i>Silniki Spalinowe</i> , 2020, 183, 3-10.	0.4	2
13	Numerical investigation of lambda-value prechamber ignition in heavy duty natural gas engine. <i>Silniki Spalinowe</i> , 2020, 181, 31-39.	0.4	1
14	Analysis of the electric drive mode use and energy flow in hybrid drives of SUVs in urban and extra-urban traffic conditions. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 5043-5050.	0.7	2
15	n-Hexane injection into high-temperature and high-pressure environments. <i>Journal of Visualization</i> , 2019, 22, 1071-1080.	1.1	0
16	Relations between ion signal and flame propagation in cylinder of a rapid compression machine. <i>Silniki Spalinowe</i> , 2019, 179, 264-268.	0.4	1
17	Optimizing the Shape of a Compression-Ignition Engine Combustion Chamber by Using Simulation Tests. <i>Polish Maritime Research</i> , 2019, 26, 138-146.	0.6	1
18	Prechamber optimal selection for a two stage turbulent jet ignition type combustion system in CNG-fuelled engine. <i>Silniki Spalinowe</i> , 2019, 176, 16-26.	0.4	8

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19	Selection of ion sensor operating parameters in quasi-static conditions. <i>Silniki Spalinowe</i> , 2019, 179, 254-258.	0.4	0
20	Application of IMEP and MBF50 indexes for controlling combustion in dual-fuel reciprocating engine. <i>Applied Thermal Engineering</i> , 2018, 132, 188-195.	3.0	20
21	The influence of petrol injection parameters on the structure of geometry of fuel spray injected from outward-opening injectors. <i>Fuel</i> , 2018, 222, 64-73.	3.4	14
22	Thermodynamic operating indicators of an SI engine with a rate-shaping type direct injection. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 421, 042063.	0.3	0
23	Prechamber selection for a two stage turbulent jet ignition of lean air-gas mixtures for better economy and emission. <i>E3S Web of Conferences</i> , 2018, 70, 03010.	0.2	3
24	Evaluation of the injectors operational wear process based on optical fuel spray analysis. <i>Eksploracja I Niezawodnosc</i> , 2018, 20, 83-89.	1.1	8
25	Operation of electric hybrid drive systems in varied driving conditions. <i>Eksploracja I Niezawodnosc</i> , 2018, 20, 16-23.	1.1	16
26	The use of electric drive in urban driving conditions using a hydrogen powered vehicle "Toyota Mirai". <i>Silniki Spalinowe</i> , 2018, 172, 51-58.	0.4	19
27	Analysis of energy management strategies for hybrid electric vehicles in urban driving conditions. <i>Silniki Spalinowe</i> , 2018, 173, 14-18.	0.4	8
28	Optical analysis of the gas flame development in a RCM using a high-power ignition system. <i>Silniki Spalinowe</i> , 2018, 173, 47-54.	0.4	2
29	Assessment of possible use of the ionization signal for the combustion process diagnostics in a spark-ignition combustion engine powered by natural gas. <i>Eksploracja I Niezawodnosc</i> , 2018, 20, 630-637.	1.1	1
30	The Influence of Diesel Oil Improvers on Indices of Atomisation and Combustion in High-Efficiency Engines. <i>Polish Maritime Research</i> , 2017, 24, 99-105.	0.6	3
31	Operation of hybrid propulsion systems in conditions of increased supply voltage. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017, 18, 1633-1639.	1.1	11
32	Optical study of the use of recirculated gases for adiabaticization of combustion process in the SIDI engine. <i>MATEC Web of Conferences</i> , 2017, 118, 00006.	0.1	1
33	Turbulent spark-jet ignition in SI gas fuelled engine. <i>MATEC Web of Conferences</i> , 2017, 118, 00010.	0.1	5
34	Influence of the distance between gas injector and intake valve on combustion indicators and NOx emission in dual fuel ci engine. <i>Journal of Mechanical and Transport Engineering</i> , 2017, , 5-13.	0.2	2
35	Use of the gas ionization signal for combustion process diagnostics in the cylinder of a spark ignition engine. <i>Silniki Spalinowe</i> , 2017, 171, 196-200.	0.4	8
36	Transient states analysis of CI engine injectors with the use of optical methods. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 148, 012085.	0.3	6

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37	Influence of increased exhaust gas recirculation ratio on the thermodynamic processes in CI DI engine. IOP Conference Series: Materials Science and Engineering, 2016, 148, 012081.	0.3	3
38	Thermodynamic analysis of indexes of operation of the engine with direct fuel injection for idle speed and acceleration. Journal of Thermal Analysis and Calorimetry, 2016, 126, 815-827.	2.0	12
39	Autoignition and combustion of n-hexane spray in subcritical and supercritical environments. Journal of Thermal Analysis and Calorimetry, 2016, 123, 819-828.	2.0	16
40	Analysis of injectors reaction on the external signals in direct injection systems. Journal of Mechanical and Transport Engineering, 2016, , 39-51.	0.2	1
41	The influence of the ignition system characteristic on the two-stroke engine operating conditions. Journal of Mechanical and Transport Engineering, 2016, , 5-15.	0.2	0
42	Thermodynamic indexes of real driving conditions of gasoline and LPG fuelled engine. Archives of Transport, 2016, 40, 51-64.	0.4	0
43	Thermodynamical evaluation of usefulness of future hydrocarbon fuels for use in compression ignition engines. Journal of Thermal Analysis and Calorimetry, 2015, 122, 473-485.	2.0	12
44	Combustion process shaping by use of different strategies of multiple fuel injection in a CI model engine. Journal of Thermal Analysis and Calorimetry, 2015, 119, 695-703.	2.0	13
45	The comparison of main operational indicators for the naturally aspirated and supercharged engines. Journal of Mechanical and Transport Engineering, 2015, , 5-15.	0.2	0
46	Diagnostics of stratified charge combustion under the conditions of multiple gasoline direct injection. Journal of Thermal Analysis and Calorimetry, 2014, 118, 217-225.	2.0	16
47	Modeling of gasoline fuel spray penetration in SIDI engines. International Journal of Automotive Technology, 2014, 15, 47-55.	0.7	17
48	Research-based assessment of the influence of hydrocarbon fuel atomization on the formation of self-ignition spots and the course of pre-flame processes. Silniki Spalinowe, 2014, 157, 22-35.	0.4	4
49	Experimental and Numerical Investigations into Diesel High-Pressure Spray - Wall Interaction under Various Ambient Conditions. , 2012, , .		8
50	The Analysis of the Exhaust Emission Level in Combat Vehicles Under Real Operating Conditions. , 2011, , .		1
51	Evaluation of the Liquid Fuel Spray Parameters Based on Experimental Research and Numerical Simulation for the Piezoelectric Injectors. Archives of Transport, 2011, 23, .	0.4	4
52	On-Road Exhaust Emissions from Passenger Cars Fitted with a Start-Stop System. Archives of Transport, 2011, 23, .	0.4	5
53	The Influence of Fuel Injection Parameters on the Indexes of Fuel Atomization Quality for a High Pressure Injection. , 2010, , .		6
54	Gaseous and PM Emission from Combat Vehicle Engines during Start and Warm-Up. , 2010, , .		8

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55	The assessment of the usefulness of a Rapid Compression Machine in optical research on the injection and combustion processes of liquid fuels. <i>Silniki Spalinowe</i> , 2010, 143, 3-14.	0.4	3
56	A comparative analysis of diesel fuel injection parameters in piezoelectric and electromagnetic fuel injectors. <i>Silniki Spalinowe</i> , 2009, 138, 54-63.	0.4	5
57	Analysis of Bio-Diesel Spray Atomization in Common-Rail Piezoinjector System. , 0, , .		5
58	Optical Research of Spray Development of E85 Fuel in High Pressure Gasoline Direct Injection System. , 0, , .		10
59	Investigations into High-Pressure Diesel Spray-Wall Interaction on Reduction of Exhaust Emission from DI Diesel Engine. , 0, , .		6
60	Investigations of the Multiple Fuel Injection and Atomization with the Use of Two Outward-Opening Injectors. , 0, , .		2
61	Analysis of a Dual-Fuel Combustion Engine Fueled with Diesel Fuel and CNG in Transient Operating Conditions. , 0, , .		4
62	Energy recovery potential through regenerative braking for a hybrid electric vehicle in a urban conditions. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 214, 012013.	0.2	12
63	The potential of fuel cells as a drive source of maritime transport. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 214, 012019.	0.2	11
64	Impact of Combustion Engine Operating Conditions on Energy Flow in Hybrid Drives in RDC Tests. , 0, , .		5
65	Optimization of Two-Stage Combustion System Fueled by Lean-Burn Compressed Natural Gas Mixtures for Light-Duty Vehicle Engines. <i>SAE International Journal of Engines</i> , 0, 13, .	0.4	3
66	Simulative Assessment of Injectors Placement and the Thermodynamic Effects of Gasoline Injection and Combustion in a Direct Dual Injection System. , 0, , .		0
67	Fuel injection rate shaping and its effect on spray parameters in a direct-injection gasoline system. <i>Journal of Visualization</i> , 0, , 1.	1.1	2