

Boru Jia

List of Publications by Year in descending order

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46
papers

1,325
citations

430874

18
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361022

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all docs

46
docs citations

46
times ranked

327
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification and analysis on the variation sources of a dual-cylinder free piston engine generator and their influence on system operating characteristics. <i>Energy</i> , 2022, 242, 123001.	8.8	9
2	A novel method to investigate the power generation characteristics of linear generator in full frequency operation range applied to opposed-piston free-piston engine generator _ Simulation and test results. <i>Energy</i> , 2022, 254, 124235.	8.8	1
3	Experimental analysis on the operation process of opposed-piston free piston engine generator. <i>Fuel</i> , 2022, 325, 124722.	6.4	9
4	Evaluation of performance characteristics of a novel hydrogen-fuelled free-piston engine generator. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 33314-33324.	7.1	21
5	Effect of the stroke-to-bore ratio on the performance of a dual-piston free piston engine generator. <i>Applied Thermal Engineering</i> , 2021, 185, 116456.	6.0	12
6	Parametric analysis of a semi-closed-loop linear joule engine generator using argon and oxy-hydrogen combustion. <i>Energy</i> , 2021, 217, 119357.	8.8	10
7	Investigation of the optimum operating condition of a dual piston type free piston engine generator during engine cold start-up process. <i>Applied Thermal Engineering</i> , 2021, 182, 116124.	6.0	19
8	Investigation of performance of free-piston engine generator with variable-scavenging-timing technology under unsteady operation condition. <i>Applied Thermal Engineering</i> , 2021, 196, 117288.	6.0	3
9	Operational optimisation of a novel dual-piston linear compressor: Simulation and experiment. <i>International Journal of Refrigeration</i> , 2021, 132, 82-91.	3.4	3
10	Research on the influence of dual spark ignition strategy at combustion process for dual cylinder free piston generator under direct injection. <i>Fuel</i> , 2021, 299, 120911.	6.4	13
11	Comparative analysis on friction characteristics between free-piston engine generator and traditional crankshaft engine. <i>Energy Conversion and Management</i> , 2021, 245, 114630.	9.2	18
12	Research on starting process and control strategy of opposed-piston free-piston engine generator _ Simulation and test results. <i>Energy Reports</i> , 2021, 7, 4977-4987.	5.1	6
13	Research on the combustion and emission characteristics of homogeneous dual cylinder free piston generator by ignition strategy. <i>Journal of Cleaner Production</i> , 2021, 328, 129564.	9.3	2
14	Realization of a Novel Free-Piston Engine Generator for Hybrid-Electric Vehicle Applications. <i>Energy & Fuels</i> , 2020, 34, 12926-12939.	5.1	16
15	Influence of piston displacement profiles on the performance of a novel dual piston linear compressor. <i>International Journal of Refrigeration</i> , 2020, 117, 71-80.	3.4	16
16	Review of recent advances of free-piston internal combustion engine linear generator. <i>Applied Energy</i> , 2020, 269, 115084.	10.1	47
17	The impact of disruptive powertrain technologies on energy consumption and carbon dioxide emissions from heavy-duty vehicles. <i>Energy Conversion and Management: X</i> , 2020, 6, 100030.	1.6	13
18	Performance Analysis of a Flexi-Fuel Turbine-Combined Free-Piston Engine Generator. <i>Energies</i> , 2019, 12, 2657.	3.1	5

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19	Parametric analysis of a dual-piston type free-piston gasoline engine linear generator. Energy Procedia, 2019, 158, 1431-1436.	1.8	5
20	A preliminary experimental study on a lab-scale Linear Joule Engine prototype. Energy Procedia, 2019, 158, 2244-2249.	1.8	5
21	Application of Miller cycle with turbocharger and ethanol to reduce NOx and particulates emissions from diesel engine – A numerical approach with model validations. Applied Thermal Engineering, 2019, 150, 904-911.	6.0	35
22	The characteristics of a Linear Joule Engine Generator operating on a dry friction principle. Applied Energy, 2019, 237, 49-59.	10.1	17
23	Effect of fuel injection characteristics on the performance of a free-piston diesel engine linear generator: CFD simulation and experimental results. Energy Conversion and Management, 2018, 160, 302-312.	9.2	32
24	Design, modelling and validation of a linear Joule Engine generator designed for renewable energy sources. Energy Conversion and Management, 2018, 165, 25-34.	9.2	24
25	Research on the engine combustion characteristics of a free-piston diesel engine linear generator. Energy Conversion and Management, 2018, 168, 629-638.	9.2	11
26	Analysis of the Scavenging Process of a Two-Stroke Free-Piston Engine Based on the Selection of Scavenging Ports or Valves. Energies, 2018, 11, 324.	3.1	13
27	A study and comparison of frictional losses in free-piston engine and crankshaft engines. Applied Thermal Engineering, 2018, 140, 217-224.	6.0	92
28	Dynamic and thermodynamic characteristics of a linear Joule engine generator with different operating conditions. Energy Conversion and Management, 2018, 173, 375-382.	9.2	13
29	Experimental study of the operation characteristics of an air-driven free-piston linear expander. Applied Energy, 2017, 195, 93-99.	10.1	52
30	Disturbance analysis of a free-piston engine generator using a validated fast-response numerical model. Applied Energy, 2017, 185, 440-451.	10.1	29
31	Research on the operation characteristics of a free-piston linear generator: Numerical model and experimental results. Energy Conversion and Management, 2017, 131, 32-43.	9.2	30
32	Fundamental Analysis of Thermal Overload in Diesel Engines: Hypothesis and Validation. Energies, 2017, 10, 329.	3.1	6
33	A Decoupled Design Parameter Analysis for Free-Piston Engine Generators. Energies, 2017, 10, 486.	3.1	3
34	Investigation on the Effect of the Gas Exchange Process on the Diesel Engine Thermal Overload with Experimental Results. Energies, 2017, 10, 766.	3.1	5
35	Development of a Diesel Engine Thermal Overload Monitoring System with Applications and Test Results. Energies, 2017, 10, 830.	3.1	3
36	Research on the Combustion Characteristics of a Free-Piston Gasoline Engine Linear Generator during the Stable Generating Process. Energies, 2016, 9, 655.	3.1	40

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37	Research on the intermediate process of a free-piston linear generator from cold start-up to stable operation: Numerical model and experimental results. Energy Conversion and Management, 2016, 122, 153-164.	9.2	46
38	Piston motion control of a free-piston engine generator: A new approach using cascade control. Applied Energy, 2016, 179, 1166-1175.	10.1	72
39	A fast response free-piston engine generator numerical model for control applications. Applied Energy, 2016, 162, 321-329.	10.1	60
40	Effect of closed-loop controlled resonance based mechanism to start free piston engine generator: Simulation and test results. Applied Energy, 2016, 164, 532-539.	10.1	60
41	Design and simulation of a two- or four-stroke free-piston engine generator for range extender applications. Energy Conversion and Management, 2016, 111, 289-298.	9.2	85
42	Research on combustion process of a free piston diesel linear generator. Applied Energy, 2016, 161, 395-403.	10.1	76
43	Development and validation of a free-piston engine generator numerical model. Energy Conversion and Management, 2015, 91, 333-341.	9.2	118
44	An experimental investigation into the starting process of free-piston engine generator. Applied Energy, 2015, 157, 798-804.	10.1	106
45	Investigation of the Starting Process of Free-piston Engine Generator by Mechanical Resonance. Energy Procedia, 2014, 61, 572-577.	1.8	34
46	Development Approach of a Spark-Ignited Free-Piston Engine Generator. , 0, , .		30