

Cheolwoong Park

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

1,155
citations

19
h-index

32
g-index

60
ext. papers

1,421
ext. citations

5.4
avg, IF

4.66
L-index

#	Paper	IF	Citations
57	The influences of hydrogen on the performance and emission characteristics of a heavy duty natural gas engine. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 3739-3745	6.7	120
56	Stratified lean combustion characteristics of a spray-guided combustion system in a gasoline direct injection engine. <i>Energy</i> , 2012 , 41, 401-407	7.9	104
55	Performance and exhaust emission characteristics of a spark ignition engine using ethanol and ethanol-reformed gas. <i>Fuel</i> , 2010 , 89, 2118-2125	7.1	104
54	Performance and emission characteristics of a SI engine fueled by low calorific biogas blended with hydrogen. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 10080-10088	6.7	66
53	Power output characteristics of hydrogen-natural gas blend fuel engine at different compression ratios. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8681-8687	6.7	58
52	Effects of Multiple Injections in a HSDI Diesel Engine Equipped with Common Rail Injection System 2004 ,		50
51	Effect of ignition timing retard strategy on NOx reduction in hydrogen-compressed natural gas blend engine with increased compression ratio. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2399-2408	6.7	41
50	Comparative study on EGR and lean burn strategies employed in an SI engine fueled by low calorific gas. <i>Applied Energy</i> , 2014 , 129, 10-16	10.7	41
49	Effects of engine operating conditions on particle emissions of lean-burn gasoline direct-injection engine. <i>Energy</i> , 2016 , 115, 1148-1155	7.9	40
48	Operating strategy for exhaust gas reduction and performance improvement in a heavy-duty hydrogen-natural gas blend engine. <i>Energy</i> , 2013 , 50, 262-269	7.9	37
47	Effects of compression ratio on performance and emission characteristics of heavy-duty SI engine fuelled with HCNG. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4831-4838	6.7	35
46	Effect of mixing CO2 with natural gasHydrogen blends on combustion in heavy-duty spark ignition engine. <i>Fuel</i> , 2012 , 102, 299-304	7.1	32
45	The effects of stratified lean combustion and exhaust gas recirculation on combustion and emission characteristics of an LPG direct injection engine. <i>Energy</i> , 2016 , 115, 386-396	7.9	31
44	Emissions and fuel consumption characteristics of an HCNG-fueled heavy-duty engine at idle. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 8078-8086	6.7	29
43	Full load performance and emission characteristics of hydrogen-compressed natural gas engines with valve overlap changes. <i>Fuel</i> , 2014 , 123, 101-106	7.1	24
42	Effects of EGR on performance of engines with spark gap projection and fueled by biogasHydrogen blends. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 14640-14648	6.7	24
41	Effect of mixer type on cylinder-to-cylinder variation and performance in hydrogen-natural gas blend fuel engine. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4809-4815	6.7	21

40	Evaluation and visualization of stratified ultra-lean combustion characteristics in a spray-guided type gasoline direct-injection engine. <i>International Journal of Automotive Technology</i> , 2014 , 15, 525-533	1.6	20
39	The influence of hydrogen-enriched gas on the performance of lean NOx trap catalyst for a light-duty diesel engine. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 1789-1796	6.7	20
38	Comparative evaluation of performance and emissions of CNG engine for heavy-duty vehicles fueled with various caloric natural gases. <i>Energy</i> , 2019 , 174, 1-9	7.9	19
37	Comparison of the effects of EGR and lean burn on an SI engine fueled by hydrogen-enriched low calorific gas. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 1086-1095	6.7	18
36	A comparative study of lean burn and exhaust gas recirculation in an HCNG-fueled heavy-duty engine. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 26094-26101	6.7	16
35	The influence of pilot injection on high-temperature ignition processes and early flame structure in a high-speed direct injection diesel engine. <i>International Journal of Engine Research</i> , 2018 , 19, 668-681	2.7	15
34	Natural gas/ammonia dual-fuel combustion in spark-ignited engine with various air/fuel ratios and split ratios of ammonia under part load condition. <i>Fuel</i> , 2021 , 290, 120095	7.1	14
33	Effect of control strategy on performance and emissions of natural gas engine for cogeneration system. <i>Energy</i> , 2015 , 82, 353-360	7.9	13
32	Effect of different excess air ratio values and spark advance timing on combustion and emission characteristics of hydrogen-fueled spark ignition engine. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 25021-25030	6.7	13
31	Effect of turbocharger on performance and thermal efficiency of hydrogen-fueled spark ignition engine. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 4350-4360	6.7	13
30	Effects of the ignition timing retard and the compression ratio on the full-load performance and the emissions characteristics of a heavy-duty engine fuelled by hydrogen/natural-gas blends. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2013 , 227, 1295-1302	1.4	12
29	The effect of engine speed and cylinder-to-cylinder variations on backfire in a hydrogen-fueled internal combustion engine. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 22223-22230	6.7	11
28	Comparison between gasoline direct injection and compressed natural gas port fuel injection under maximum load condition. <i>Energy</i> , 2020 , 197, 117173	7.9	10
27	Emission Characteristics of Gasoline and LPG in a Spray-Guided-Type Direct Injection Engine 2013 ,		10
26	Evaluation of emission characteristics of a stoichiometric natural gas engine fueled with compressed natural gas and biomethane. <i>Energy</i> , 2021 , 220, 119766	7.9	10
25	Effects of HPL and LPL EGR Gas Mixed Supply on Combustion and Emissions in Automotive Diesel Engine 2011 ,		8
24	Knock and Emission Characteristics of Heavy-Duty HCNG Engine with Modified Compression Ratios 2013 ,		7
23	Effect of supercharger system on power enhancement of hydrogen-fueled spark-ignition engine under low-load condition. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 6928-6936	6.7	7

22	A novel method for correction of temporally- and spatially-variant optical distortion in planar particle image velocimetry. <i>Measurement Science and Technology</i> , 2016 , 27, 085201	2	6
21	Development of hydrogen-compressed natural gas blend engine for heavy duty vehicles. <i>International Journal of Automotive Technology</i> , 2017 , 18, 1061-1066	1.6	6
20	Effect of natural gas composition and gas interchangeability on performance and emission characteristics in an air/fuel controlled natural gas engine. <i>Fuel</i> , 2021 , 287, 119501	7.1	6
19	Effect of Injection Timing Retard on ISI Strategy in Lean-burning LPG Direct Injection Engines 2013 ,		5
18	Performance of Naphtha in Compression Ignition Modes Using Multicomponent Surrogate Fuel Model. <i>International Journal of Automotive Technology</i> , 2020 , 21, 843-853	1.6	5
17	Effect of Exhaust Gas Recirculation on a Spark Ignition Engine Fueled with Biogas-Hydrogen Blends 2011 ,		4
16	Combustion Characteristics of Stratified Mixture in Lean-Burn Liquefied Petroleum Gas Direct-Injection Engine With Spray-Guided Combustion System. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016 , 138,	1.7	4
15	Effect of Valve Timing and Excess Air Ratio on Torque in Hydrogen-Fueled Internal Combustion Engine for UAV. <i>Energies</i> , 2019 , 12, 771	3.1	3
14	Effect of spark plug protrusion on the performance and emission characteristics of an engine fueled by hydrogen-natural gas blends. <i>Journal of Mechanical Science and Technology</i> , 2014 , 28, 1539-1544	1.6	3
13	Characteristics of Droplet and Icing Formation of an injector for Liquid Phase LPG Injection System 2007 ,		3
12	Effect of Low Calorific Natural Gas on Performance and Emission Characteristics of Engine. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2013 , 37, 1129-1135	0.5	3
11	Combustion and Emission Characteristics According to the Fuel Injection Ratio of an Ultra-Lean LPG Direct Injection Engine. <i>Energies</i> , 2016 , 9, 920	3.1	3
10	Effect of boosting on a performance and emissions in a port fuel injection natural gas engine with variable intake and exhaust valve timing. <i>Energy Reports</i> , 2021 , 7, 4941-4950	4.6	3
9	Control methods for variations in natural gas composition in air/fuel controlled natural gas engines. <i>Energy Reports</i> , 2021 , 7, 942-950	4.6	2
8	Effects of Compression Ratio and Valve Overlap on Feasibility of HCNG Engines for Heavy-Duty Vehicles 2014 ,		1
7	Combustion and Emission Characteristics of Heavy Duty SI Engine Fueled with Synthetic Natural Gas (SNG) 2013 ,		1
6	Effect of the operation strategy and spark plug conditions on the torque output of a hydrogen port fuel injection engine. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 37063-37063	6.7	1
5	Investigation on the operable range and idle condition of hydrogen-fueled spark ignition engine for unmanned aerial vehicle (UAV). <i>Energy</i> , 2021 , 237, 121645	7.9	1

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| 4 | Effects of Intake and Exhaust Valve Timing on Combustion and Emission Characteristics of Lean-Burn Direct-Injection LPG Engine. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2015 , 39, 45-51 | 0.5 | 0 |
| 3 | Effect of Reduced Valve Overlap on Emission Characteristics of Hydrogen-Compressed Natural Gas Engine. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2015 , 39, 21-27 | 0.5 | |
| 2 | PM Reduction Characteristics of Gasoline Direct Injection Engines with Different Types of GPFs. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2015 , 39, 351-358 | 0.5 | |
| 1 | A Study on the Full Load Performance and Emission Characteristics with Turbo-charger Change in a HCNG Engine. <i>Journal of the Korean Institute of Gas</i> , 2013 , 17, 8-14 | | |