

Soonho Song

List of Publications by Year in descending order

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47
papers

897
citations

471509

17
h-index

501196

28
g-index

48
all docs

48
docs citations

48
times ranked

769
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen effects on NOx emissions and brake thermal efficiency in a diesel engine under low-temperature and heavy-EGR conditions. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 6281-6291.	7.1	88
2	Hydrogen effects on the combustion stability, performance and emissions of a turbo gasoline direct injection engine in various air/fuel ratios. <i>Applied Energy</i> , 2018, 228, 1353-1361.	10.1	61
3	Generating efficiency and emissions of a spark-ignition gas engine generator fuelled with biogas-hydrogen blends. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9620-9627.	7.1	60
4	Generating efficiency and NOx emissions of a gas engine generator fueled with a biogas-hydrogen blend and using an exhaust gas recirculation system. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5723-5730.	7.1	54
5	The effects of hydrogen on the combustion, performance and emissions of a turbo gasoline direct-injection engine with exhaust gas recirculation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 25074-25087.	7.1	49
6	An experimental study of syn-gas production via microwave plasma reforming of methane, iso-octane and gasoline. <i>Energy</i> , 2010, 35, 2734-2743.	8.8	40
7	Numerical study of the performance and NOx emission of a diesel-methanol dual-fuel engine using multi-objective Pareto optimization. <i>Energy</i> , 2017, 124, 272-283.	8.8	39
8	Performance and NOx emissions of a biogas-fueled turbocharged internal combustion engine. <i>Energy</i> , 2015, 86, 186-195.	8.8	35
9	Investigation of the effects of hydrogen on cylinder pressure in a split-injection diesel engine at heavy EGR. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13158-13170.	7.1	31
10	A numerical study of a methane-fueled gas engine generator with addition of hydrogen using cycle simulation and DOE method. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5153-5162.	7.1	30
11	Numerical investigation of a dual-loop EGR split strategy using a split index and multi-objective Pareto optimization. <i>Applied Energy</i> , 2015, 142, 21-32.	10.1	30
12	Numerical study on the effects of intake valve timing on performance of a natural gas-diesel dual-fuel engine and multi-objective Pareto optimization. <i>Applied Thermal Engineering</i> , 2017, 121, 604-616.	6.0	30
13	Carbon dioxide conversion in an atmospheric pressure microwave plasma reactor: Improving efficiencies by enhancing afterglow quenching. <i>Journal of CO2 Utilization</i> , 2020, 37, 240-247.	6.8	27
14	Predicting performance of a methane-fueled HCCI engine with hydrogen addition considering knock resistance. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 15749-15759.	7.1	24
15	A rapid compression machine study of hydrogen effects on the ignition delay times of n-butane at low-to-intermediate temperatures. <i>Fuel</i> , 2020, 266, 116895.	6.4	23
16	Rapid-compression machine studies on two-stage ignition characteristics of hydrocarbon autoignition and an investigation of new gasoline surrogates. <i>Energy</i> , 2015, 93, 1505-1514.	8.8	19
17	Prediction of hydrogen-added combustion process in T-GDI engine using artificial neural network. <i>Applied Thermal Engineering</i> , 2020, 181, 115974.	6.0	19
18	An experimental study on the fuel conversion efficiency and NOx emissions of a spark-ignition gas engine for power generation by fuel mixture of methane and model syngas (H2/CO). <i>Journal of Natural Gas Science and Engineering</i> , 2015, 23, 517-523.	4.4	17

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19	The effects of the air-fuel ratio on a stationary diesel engine under dual-fuel conditions and multi-objective optimization. <i>Energy</i> , 2019, 187, 115884.	8.8	17
20	H ₂ effects on diesel combustion and emissions with an LPL-EGR system. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9897-9906.	7.1	16
21	The effects of hydrogen addition on the auto-ignition delay of homogeneous primary reference fuel/air mixtures in a rapid compression machine. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 13994-14005.	7.1	16
22	Model-based multi-objective Pareto optimization of the BSFC and NO _x emission of a dual-fuel engine using a variable valve strategy. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 39, 161-172.	4.4	15
23	Improving the thermal efficiency of a T-GDI engine using hydrogen from combined steam and partial oxidation exhaust gas reforming of gasoline under low-load stoichiometric conditions. <i>Fuel</i> , 2020, 273, 117754.	6.4	15
24	Effect of Hydrogen as an Additive on Lean Limit and Emissions of a Turbo Gasoline Direct Injection Engine. , 0, , .		13
25	Predicting the performance and NO _x emissions of a turbocharged spark-ignition engine generator fueled with biogases and hydrogen addition under down-boosting condition. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8510-8524.	7.1	12
26	Rapid compression machine studies on ignition delay changes in a methyl butanoate/n-heptane mixture by hydrogen addition. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19207-19217.	7.1	12
27	Analysis of fractal particles from diesel exhaust using a scanning-mobility particle sizer and laser-induced incandescence. <i>Journal of Aerosol Science</i> , 2010, 41, 531-540.	3.8	11
28	Comparative Study on Infrared Irradiance Emitted from Standard and Real Rocket Motor Plumes. <i>Propellants, Explosives, Pyrotechnics</i> , 2015, 40, 779-785.	1.6	11
29	Efficient methane reforming at proper reaction environment for the highly active and stable fibrous perovskite catalyst. <i>Fuel</i> , 2017, 207, 493-502.	6.4	10
30	Molecular dynamics study of Hugoniot relation in shocked nickel single crystal. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 3273-3281.	1.5	10
31	Calculation of mass-weighted distribution of diesel particulate matters using primary particle density. <i>Journal of Aerosol Science</i> , 2011, 42, 419-427.	3.8	8
32	Concept design of a novel reformer producing hydrogen for internal combustion engines using fuel decomposition method: Performance evaluation of coated monolith suitable for on-board applications. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 9353-9367.	7.1	8
33	Numerical investigation on a dual loop EGR optimization of a light duty diesel engine based on water condensation analysis. <i>Applied Thermal Engineering</i> , 2021, 182, 116064.	6.0	8
34	A Study on Time-Resolved Laser Induced Incandescence Analysis Method for the Measurement of Primary Particle Size in Diesel Exhaust. <i>JSME International Journal Series B</i> , 2006, 49, 1351-1357.	0.3	6
35	Infrared signature of NEPE, HTPB rocket plume under varying flight conditions and motor size. <i>Infrared Physics and Technology</i> , 2021, 112, 103590.	2.9	6
36	Thermal efficiency improvement of a range extender based on the T-GDI engine for a medium-size electric bus using on-board gasoline fuel reforming with steam addition. <i>Fuel</i> , 2021, 300, 120965.	6.4	5

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37	Measuring Methanol Concentrations in a Vapor-Fed Direct Methanol Fuel Cell Using Laser Absorption Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2010, 157, B320.	2.9	4
38	Development of a Real-Time, <i>In-Situ</i> Particle Sizing Technique: Real-Time Light Transmission Spectroscopy (RTLTS). <i>Aerosol Science and Technology</i> , 2013, 47, 1092-1100.	3.1	3
39	Hydrogen effects on ignition delay time of methyl butanoate in a rapid compression machine. <i>International Journal of Energy Research</i> , 2021, 45, 5602-5618.	4.5	3
40	Atomization characteristics of slurry fuels using a pressure swirl atomizer. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2022, 304, 104794.	2.4	3
41	An agglomeration model: Influence of proximity of particles on agglomeration. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 5303-5309.	1.5	2
42	Experiment on the flammability variation of micron-sized aluminum powder depending on combustion environment for burning of aluminum-diluted oxygen. <i>Acta Astronautica</i> , 2021, 178, 51-59.	3.2	2
43	A highly sensitive micro-thermal sensor for hydrogen detection. , 2007, , .		1
44	Real-time light transmission spectroscopy (RTLTS): A real-time and in situ particle size distribution measurement for fractal-like diesel exhaust particles. <i>Journal of Aerosol Science</i> , 2015, 90, 124-135.	3.8	1
45	Numerical simulation on high speed impact behavior of Al-W and Al-Ni mixture. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 4629-4636.	1.5	1
46	Numerical Analysis of Engine Efficiency by Pilot and Main Injection Timing Optimization through 1D Modeling of Diesel Engine. <i>Transactions of the Korean Society of Automotive Engineers</i> , 2017, 25, 668-674.	0.3	1
47	NO _x Reduction Characteristics for Different Composition Ratios of Pt/Al ₂ O ₃ , Rh/Al ₂ O ₃ Catalyst Mixtures Using Model Gas as Reformates. <i>Chinese Journal of Chemistry</i> , 2010, 28, 1085-1090.	4.9	0