Soonho Song

List of Publications by Year
in descending order

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47	897	471509	501196
papers	citations	17	28
		h-index	g-index

48	48	48	769
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomization characteristics of slurry fuels using a pressure swirl atomizer. Journal of Non-Newtonian Fluid Mechanics, 2022, 304, 104794.	2.4	3
2	Hydrogen effects on ignition delay time of methyl butanoate in a rapid compression machine. International Journal of Energy Research, 2021, 45, 5602-5618.	4.5	3
3	Experiment on the flammability variation of micron-sized aluminum powder depending on combustion environment for burning of aluminum-diluted oxygen. Acta Astronautica, 2021, 178, 51-59.	3.2	2
4	Numerical investigation on a dual loop EGR optimization of a light duty diesel engine based on water condensation analysis. Applied Thermal Engineering, 2021, 182, 116064.	6.0	8
5	Infrared signature of NEPE, HTPB rocket plume under varying flight conditions and motor size. Infrared Physics and Technology, 2021, 112, 103590.	2.9	6
6	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. Fuel, 2021, 300, 120965.	6.4	5
7	Carbon dioxide conversion in an atmospheric pressure microwave plasma reactor: Improving efficiencies by enhancing afterglow quenching. Journal of CO2 Utilization, 2020, 37, 240-247.	6.8	27
8	Prediction of hydrogen-added combustion process in T-GDI engine using artificial neural network. Applied Thermal Engineering, 2020, 181, 115974.	6.0	19
9	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. International Journal of Hydrogen Energy, 2020, 45, 9353-9367.	7.1	8
10	A rapid compression machine study of hydrogen effects on the ignition delay times of n-butane at low-to-intermediate temperatures. Fuel, 2020, 266, 116895.	6.4	23
11	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. Fuel, 2020, 273, 117754.	6.4	15
12	The effects of the air-fuel ratio on a stationary diesel engine under dual-fuel conditions and multi-objective optimization. Energy, 2019, 187, 115884.	8.8	17
13	An agglomeration model: Influence of proximity of particles on agglomeration. Journal of Mechanical Science and Technology, 2019, 33, 5303-5309.	1.5	2
14	Numerical simulation on high speed impact behavior of Al-W and Al-Ni mixture. Journal of Mechanical Science and Technology, 2018, 32, 4629-4636.	1.5	1
15	Hydrogen effects on the combustion stability, performance and emissions of a turbo gasoline direct injection engine in various air/fuel ratios. Applied Energy, 2018, 228, 1353-1361.	10.1	61
16	Molecular dynamics study of Hugoniot relation in shocked nickel single crystal. Journal of Mechanical Science and Technology, 2018, 32, 3273-3281.	1.5	10
17	Model-based multi-objective Pareto optimization of the BSFC and NO x emission of a dual-fuel engine using a variable valve strategy. Journal of Natural Gas Science and Engineering, 2017, 39, 161-172.	4.4	15
18	Numerical study on the effects of intake valve timing on performance of a natural gas-diesel dual-fuel engine and multi-objective Pareto optimization. Applied Thermal Engineering, 2017, 121, 604-616.	6.0	30

#	Article	IF	Citations
19	Numerical study of the performance and NOx emission of a diesel-methanol dual-fuel engine using multi-objective Pareto optimization. Energy, 2017, 124, 272-283.	8.8	39
20	The effects of hydrogen on the combustion, performance and emissions of a turbo gasoline direct-injection engine with exhaust gas recirculation. International Journal of Hydrogen Energy, 2017, 42, 25074-25087.	7.1	49
21	Efficient methane reforming at proper reaction environment for the highly active and stable fibrous perovskite catalyst. Fuel, 2017, 207, 493-502.	6.4	10
22	Numerical Analysis of Engine Efficiency by Pilot and Main Injection Timing Optimization through 1D Modeling of Diesel Engine. Transactions of the Korean Society of Automotive Engineers, 2017, 25, 668-674.	0.3	1
23	Rapid compression machine studies on ignition delay changes in a methyl butanoate/n-heptane mixture by hydrogen addition. International Journal of Hydrogen Energy, 2016, 41, 19207-19217.	7.1	12
24	Real-time light transmission spectroscopy (RTLTS): A real-time and in situ particle size distribution measurement for fractal-like diesel exhaust particles. Journal of Aerosol Science, 2015, 90, 124-135.	3.8	1
25	Comparative Study on Infrared Irradiance Emitted from Standard and Real Rocket Motor Plumes. Propellants, Explosives, Pyrotechnics, 2015, 40, 779-785.	1.6	11
26	Performance and NOx emissions of a biogas-fueled turbocharged internal combustion engine. Energy, 2015, 86, 186-195.	8.8	35
27	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). Journal of Natural Gas Science and Engineering, 2015, 23, 517-523.	4.4	17
28	Numerical investigation of a dual-loop EGR split strategy using a split index and multi-objective Pareto optimization. Applied Energy, 2015, 142, 21-32.	10.1	30
29	Predicting performance of a methane-fueled HCCI engine with hydrogen addition considering knock resistance. International Journal of Hydrogen Energy, 2015, 40, 15749-15759.	7.1	24
30	The effects of hydrogen addition on the auto-ignition delay of homogeneous primary reference fuel/air mixtures in a rapid compression machine. International Journal of Hydrogen Energy, 2015, 40, 13994-14005.	7.1	16
31	Rapid-compression machine studies on two-stage ignition characteristics of hydrocarbon autoignition and an investigation of new gasoline surrogates. Energy, 2015, 93, 1505-1514.	8.8	19
32	Predicting the performance and NOx emissions of a turbocharged spark-ignition engine generator fueled with biogases and hydrogen addition under down-boosting condition. International Journal of Hydrogen Energy, 2014, 39, 8510-8524.	7.1	12
33	H2 effects on diesel combustion and emissions with an LPL-EGR system. International Journal of Hydrogen Energy, 2013, 38, 9897-9906.	7.1	16
34	Development of a Real-Time,In-SituParticle Sizing Technique: Real-Time Light Transmission Spectroscopy (RTLTS). Aerosol Science and Technology, 2013, 47, 1092-1100.	3.1	3
35	Calculation of mass-weighted distribution of diesel particulate matters using primary particle density. Journal of Aerosol Science, 2011, 42, 419-427.	3.8	8
36	Investigation of the effects of hydrogen on cylinder pressure in a split-injection diesel engine at heavy EGR. International Journal of Hydrogen Energy, 2011, 36, 13158-13170.	7.1	31

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37	A numerical study of a methane-fueled gas engine generator with addition of hydrogen using cycle simulation and DOE method. International Journal of Hydrogen Energy, 2011, 36, 5153-5162.	7.1	30
38	Hydrogen effects on NOx emissions and brake thermal efficiency in a diesel engine under low-temperature and heavy-EGR conditions. International Journal of Hydrogen Energy, 2011, 36, 6281-6291.	7.1	88
39	NO_x Reduction Characteristics for Different Composition Ratios of Pt/Al₂O₃, Rh/Al₂O₃ Catalyst Mixtures Using Model Gas as Reformates. Chinese Journal of Chemistry, 2010, 28, 1085-1090.	4.9	0
40	Generating efficiency and NOx emissions of a gas engine generator fueled with a biogasâ€“hydrogen blend and using an exhaust gas recirculation system. International Journal of Hydrogen Energy, 2010, 35, 5723-5730.	7.1	54
41	An experimental study of syn-gas production via microwave plasma reformingÂofÂmethane, iso-octane and gasoline. Energy, 2010, 35, 2734-2743.	8.8	40
42	Measuring Methanol Concentrations in a Vapor-Fed Direct Methanol Fuel Cell Using Laser Absorption Spectroscopy. Journal of the Electrochemical Society, 2010, 157, B320.	2.9	4
43	Analysis of fractal particles from diesel exhaust using a scanning-mobility particle sizer and laser-induced incandescence. Journal of Aerosol Science, 2010, 41, 531-540.	3.8	11
44	Generating efficiency and emissions of a spark-ignition gas engine generator fuelled with biogasâ€“hydrogen blends. International Journal of Hydrogen Energy, 2009, 34, 9620-9627.	7.1	60
45	A highly sensitive micro-thermal sensor for hydrogen detection. , 2007, , .		1
46	A Study on Time-Resolved Laser Induced Incandescence Analysis Method for the Measurement of Primary Particle Size in Diesel Exhaust. JSME International Journal Series B, 2006, 49, 1351-1357.	0.3	6
47	Effect of Hydrogen as an Additive on Lean Limit and Emissions of a Turbo Gasoline Direct Injection Engine. , 0, , .		13