

Kyu-Seop Kim

List of Publications by Year in descending order

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62
papers

1,014
citations

331670

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477307

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622
citing authors

#	ARTICLE	IF	CITATIONS
1	Scaling and Evaluation of Pt/Al ₂ O ₃ Catalytic Reactor for Hydrogen Peroxide Monopropellant Thruster. <i>Journal of Propulsion and Power</i> , 2009, 25, 1041-1045.	2.2	59
2	Design, fabrication, and testing of MEMS solid propellant thruster array chip on glass wafer. <i>Sensors and Actuators A: Physical</i> , 2010, 157, 126-134.	4.1	53
3	Ignition of boron-based green hypergolic fuels with hydrogen peroxide. <i>Fuel</i> , 2019, 255, 115729.	6.4	53
4	Green hypergolic combination: Diethylenetriamine-based fuel and hydrogen peroxide. <i>Acta Astronautica</i> , 2017, 137, 25-30.	3.2	47
5	Sodium borohydride hydrogen generator using Co-P/Ni foam catalysts for 200W proton exchange membrane fuel cell system. <i>Energy</i> , 2015, 90, 1163-1170.	8.8	42
6	Performance evaluation of hydrogen generation system with electroless-deposited Co-P/Ni foam catalyst for NaBH ₄ hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6425-6435.	7.1	41
7	Chugging Instability of H ₂ O ₂ Monopropellant Thrusters with Reactor Aspect Ratio and Pressures. <i>Journal of Propulsion and Power</i> , 2011, 27, 422-427.	2.2	40
8	Mixing efficiency of a multilamination micromixer with consecutive recirculation zones. <i>Chemical Engineering Science</i> , 2009, 64, 1223-1231.	3.8	37
9	Catalyst preparation for fabrication of a MEMS fuel reformer. <i>Chemical Engineering Journal</i> , 2006, 123, 93-102.	12.7	31
10	Electrocatalysts supported on multiwalled carbon nanotubes for direct borohydride-hydrogen peroxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 6977-6986.	7.1	31
11	Lanthanum doping for longevity of alumina catalyst bed in hydrogen peroxide thruster. <i>Aerospace Science and Technology</i> , 2015, 46, 197-203.	4.8	29
12	Ultrafast igniting, low toxicity hypergolic hybrid solid fuels and hydrogen peroxide oxidizer. <i>Fuel</i> , 2021, 286, 119307.	6.4	28
13	Simple catalyst bed sizing of a NaBH ₄ hydrogen generator with fast startup for small unmanned aerial vehicles. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1018-1026.	7.1	26
14	Chugging Instability of H ₂ O ₂ Monopropellant Thrusters with Catalyst Reactivity and Support Sizes. <i>Journal of Propulsion and Power</i> , 2011, 27, 920-924.	2.2	24
15	The proton exchange membrane fuel cell systems using methanolysis of sodium borohydride as a hydrogen source with cobalt catalysts. <i>International Journal of Green Energy</i> , 2016, 13, 1224-1231.	3.8	24
16	Ground simulation of a hybrid power strategy using fuel cells and solar cells for high-endurance unmanned aerial vehicles. <i>Energy</i> , 2017, 141, 1547-1554.	8.8	24
17	Fuel cell system with sodium borohydride hydrogen generator for small unmanned aerial vehicles. <i>International Journal of Green Energy</i> , 2018, 15, 385-392.	3.8	24
18	Design of Multiport Grain with Hydrogen Peroxide Hybrid Rocket. <i>Journal of Propulsion and Power</i> , 2018, 34, 1189-1197.	2.2	23

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19	Performance evaluation of direct borohydride-hydrogen peroxide fuel cells with electrocatalysts supported on multiwalled carbon nanotubes. <i>Energy</i> , 2014, 76, 911-919.	8.8	22
20	Autoignition and combustion characteristics of sodium borohydride-based non-toxic hypergolic fuel droplet at elevated temperatures. <i>Combustion and Flame</i> , 2017, 181, 149-156.	5.2	22
21	All-in-one portable electric power plant using proton exchange membrane fuel cells for mobile applications. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6331-6339.	7.1	22
22	Autoignitable and Restartable Hybrid Rockets Using Catalytic Decomposition of an Oxidizer. <i>Journal of Propulsion and Power</i> , 2014, 30, 514-518.	2.2	19
23	Fabrication of a liquid monopropellant microthruster with built-in regenerative micro-cooling channels. <i>Sensors and Actuators A: Physical</i> , 2017, 263, 332-340.	4.1	19
24	Estimating the energy density of direct borohydride-hydrogen peroxide fuel cell systems for air-independent propulsion applications. <i>Energy</i> , 2015, 90, 980-986.	8.8	16
25	Rapid ignition of "green" bipropellants enlisting hypergolic copper (II) promoter-in-fuel. <i>Fuel</i> , 2021, 297, 120734.	6.4	16
26	Transient behavior of proton exchange membrane fuel cells over a cobalt-phosphorous/nickel foam catalyst with sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 524-533.	7.1	15
27	Integration validation of key components for small sounding rockets. <i>Aerospace Science and Technology</i> , 2020, 100, 105823.	4.8	15
28	Effect of H ₂ O ₂ injection patterns on catalyst bed characteristics. <i>Acta Astronautica</i> , 2017, 130, 75-83.	3.2	14
29	Effect of dual-catalytic bed using two different catalyst sizes for hydrogen peroxide thruster. <i>Aerospace Science and Technology</i> , 2018, 78, 26-32.	4.8	14
30	Effect of heat treatment of electrodes on direct borohydride-hydrogen peroxide fuel cell performance. <i>Journal of Power Sources</i> , 2014, 268, 63-68.	7.8	13
31	Experimental analysis of hydrogen peroxide film-cooling method for nontoxic hypergolic thruster. <i>Aerospace Science and Technology</i> , 2017, 71, 751-762.	4.8	13
32	High performance microthruster with ammonium-dinitramide-based monopropellant. <i>Sensors and Actuators A: Physical</i> , 2018, 283, 211-219.	4.1	12
33	A MEMS Piston-Cylinder Device Actuated by Combustion. <i>Journal of Heat Transfer</i> , 2003, 125, 487-493.	2.1	11
34	Microcatalytic Combustion of H ₂ on Pt/Al ₂ O ₃ -Coated Nickel Foam. <i>Combustion Science and Technology</i> , 2009, 181, 211-225.	2.3	11
35	NUMERICAL SIMULATION OF FLAME PROPAGATION NEAR EXTINCTION CONDITION IN A MICRO COMBUSTOR. <i>Microscale Thermophysical Engineering</i> , 2004, 8, 71-89.	1.2	10
36	Synergistic effect of a hybrid additive for hydrogen peroxide-based low toxicity hypergolic propellants. <i>Combustion and Flame</i> , 2021, 231, 111450.	5.2	10

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37	Scaling of catalyst bed for hydrogen peroxide monopropellant thrusters using catalytic decomposition modeling. <i>Acta Astronautica</i> , 2021, 187, 167-180.	3.2	10
38	Optimum Nozzle Angle of a Micro Solid-Propellant Thruster. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2011, 15, 165-178.	2.6	9
39	Compact design of oxidative steam reforming of methanol assisted by blending hydrogen peroxide. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12697-12704.	7.1	9
40	Port diameter design of multiport solid fuel in hydrogen peroxide hybrid rockets. <i>Aerospace Science and Technology</i> , 2021, 110, 106485.	4.8	9
41	Stall inception and warning in a single-stage transonic axial compressor with axial skewed slot casing treatment. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 3569-3581.	1.5	8
42	Micro Shear-Stress Sensor for Separation Detection During Flight of Unmanned Aerial Vehicles Using a Strain Gauge. <i>IEEE Sensors Journal</i> , 2014, 14, 1012-1019.	4.7	7
43	A mixture of hydrogen peroxide and tetraglyme as a green energetic monopropellant. <i>Combustion and Flame</i> , 2019, 210, 43-53.	5.2	7
44	Conceptual design of high-speed underwater jet engine using high concentration of hydrogen peroxide. <i>Ocean Engineering</i> , 2018, 153, 193-200.	4.3	6
45	Design and fabrication of micromachined internal combustion engine as a power source for microsystems. , 0, , .		5
46	Performance of MEMS-Based Monopropellant Microthruster With Insulating Effect. <i>Journal of Microelectromechanical Systems</i> , 2022, 31, 612-624.	2.5	5
47	Evaluation of Silver-coated Magnesium Bipolar Plate for Lightweight PEM Fuel Cell Stack. <i>International Journal of Green Energy</i> , 0, , 141111165052003.	3.8	4
48	Manganese oxide lanthanum-doped alumina catalyst for application in 95Åwt.% hydrogen peroxide thruster. <i>CEAS Space Journal</i> , 2021, 13, 189-196.	2.3	4
49	Effect of Unsteadiness and Nozzle Asymmetry on Thrust of a Microthruster. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2012, 16, 50-63.	2.6	3
50	Performance Evaluation of Small-scale Liquid Pump using a Radial Turbine with H<sub>2</sub>O<sub>2</sub> Gas Generator. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2015, 58, 253-260.	0.7	3
51	Parametric Study of Solid Fuel for Hydrogen Peroxide Hybrid Rocket Design. <i>Journal of Propulsion and Power</i> , 2022, 38, 229-240.	2.2	3
52	Statistical analysis of the fractal nature of turbulent premixed flames. <i>Combustion Science and Technology</i> , 2003, 175, 1317-1332.	2.3	2
53	Hydrogen Peroxide-Based Gas Generator Design and Performance Testing as an Aircraft Emergency Power Unit. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010, 132, .	1.1	2
54	Geostationary Orbit Transfer with Lunar Gravity Assist from Non-equatorial Launch Site. <i>Journal of the Astronautical Sciences</i> , 2021, 68, 1014-1033.	1.5	2

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55	Optical visualization of hypergolic burning spray structure using blue light spectrum. <i>Acta Astronautica</i> , 2022, 193, 230-236.	3.2	2
56	The Effect of Volume Expansion on the Propagation of Wrinkled Laminar Premixed Flame. <i>Combustion Science and Technology</i> , 1999, 146, 85-103.	2.3	1
57	Design and performance evaluation of a bellows-type mixture ratio stabilizer for a liquid bipropellant rocket engine. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2009, 223, 723-731.	2.1	1
58	Lightweight Magnesium Bipolar Plates of Direct NaBH ₄ /H ₂ O ₂ Fuel Cell for AIP Application. <i>International Journal of Turbo and Jet Engines</i> , 2015, 32, .	0.7	1
59	Preparation and Performance Evaluation of Platinum Barium Hexaaluminate Catalyst for Green Propellant Hydroxylamine Nitrate Thrusters. <i>Materials</i> , 2021, 14, 2828.	2.9	1
60	Integrated fabrication of a micro methanol reformer and a hydrogen peroxide heat source. , 2007, , .		0
61	Ground Simulation of High Altitude Test of Turbo-Refrigeration Cycle. <i>International Journal of Turbo and Jet Engines</i> , 2018, 35, 281-290.	0.7	0
62	Combustion Characteristics of Multi-Element Swirl Coaxial Jet Injectors under Varying Momentum Ratios. <i>Energies</i> , 2021, 14, 4064.	3.1	0