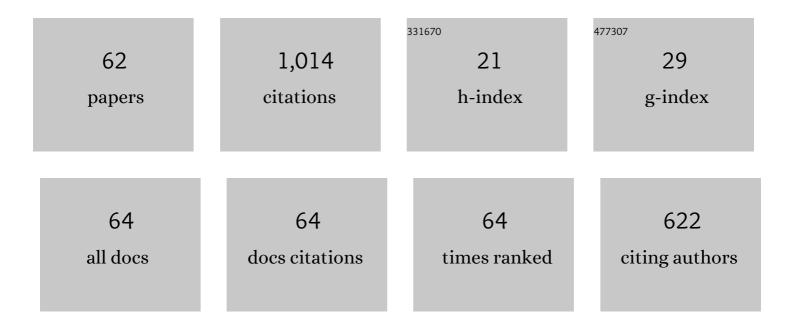
Kyu-Seop Kim

List of Publications by Year in descending order

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KVU-SEOD KIM

#	Article	IF	CITATIONS
1	Parametric Study of Solid Fuel for Hydrogen Peroxide Hybrid Rocket Design. Journal of Propulsion and Power, 2022, 38, 229-240.	2.2	3
2	Optical visualization of hypergolic burning spray structure using blue light spectrum. Acta Astronautica, 2022, 193, 230-236.	3.2	2
3	Performance of MEMS-Based Monopropellant Microthruster With Insulating Effect. Journal of Microelectromechanical Systems, 2022, 31, 612-624.	2.5	5
4	Ultrafast igniting, low toxicity hypergolic hybrid solid fuels and hydrogen peroxide oxidizer. Fuel, 2021, 286, 119307.	6.4	28
5	Manganese oxide lanthanum-doped alumina catalyst for application in 95Âwt.% hydrogen peroxide thruster. CEAS Space Journal, 2021, 13, 189-196.	2.3	4
6	Port diameter design of multiport solid fuel in hydrogen peroxide hybrid rockets. Aerospace Science and Technology, 2021, 110, 106485.	4.8	9
7	Preparation and Performance Evaluation of Platinum Barium Hexaaluminate Catalyst for Green Propellant Hydroxylamine Nitrate Thrusters. Materials, 2021, 14, 2828.	2.9	1
8	Combustion Characteristics of Multi-Element Swirl Coaxial Jet Injectors under Varying Momentum Ratios. Energies, 2021, 14, 4064.	3.1	0
9	Rapid ignition of "green―bipropellants enlisting hypergolic copper (II) promoter-in-fuel. Fuel, 2021, 297, 120734.	6.4	16
10	Synergistic effect of a hybrid additive for hydrogen peroxide-based low toxicity hypergolic propellants. Combustion and Flame, 2021, 231, 111450.	5.2	10
11	Geostationary Orbit Transfer with Lunar Gravity Assist from Non-equatorial Launch Site. Journal of the Astronautical Sciences, 2021, 68, 1014-1033.	1.5	2
12	Scaling of catalyst bed for hydrogen peroxide monopropellant thrusters using catalytic decomposition modeling. Acta Astronautica, 2021, 187, 167-180.	3.2	10
13	Integration validation of key components for small sounding rockets. Aerospace Science and Technology, 2020, 100, 105823.	4.8	15
14	Ignition of boron-based green hypergolic fuels with hydrogen peroxide. Fuel, 2019, 255, 115729.	6.4	53
15	A mixture of hydrogen peroxide and tetraglyme as a green energetic monopropellant. Combustion and Flame, 2019, 210, 43-53.	5.2	7
16	All-in-one portable electric power plant using proton exchange membrane fuel cells for mobile applications. International Journal of Hydrogen Energy, 2018, 43, 6331-6339.	7.1	22
17	Fuel cell system with sodium borohydride hydrogen generator for small unmanned aerial vehicles. International Journal of Green Energy, 2018, 15, 385-392.	3.8	24
18	Effect of dual-catalytic bed using two different catalyst sizes for hydrogen peroxide thruster. Aerospace Science and Technology, 2018, 78, 26-32.	4.8	14

ΚΥΊ-SEOP ΚΙΜ

#	Article	IF	CITATIONS
19	Conceptual design of high-speed underwater jet engine using high concentration of hydrogen peroxide. Ocean Engineering, 2018, 153, 193-200.	4.3	6
20	Ground Simulation of High Altitude Test of Turbo-Refrigeration Cycle. International Journal of Turbo and Jet Engines, 2018, 35, 281-290.	0.7	0
21	High performance microthruster with ammonium-dinitramide-based monopropellant. Sensors and Actuators A: Physical, 2018, 283, 211-219.	4.1	12
22	Design of Multiport Grain with Hydrogen Peroxide Hybrid Rocket. Journal of Propulsion and Power, 2018, 34, 1189-1197.	2.2	23
23	Green hypergolic combination: Diethylenetriamine-based fuel and hydrogen peroxide. Acta Astronautica, 2017, 137, 25-30.	3.2	47
24	Autoignition and combustion characteristics of sodium borohydride-based non-toxic hypergolic fuel droplet at elevated temperatures. Combustion and Flame, 2017, 181, 149-156.	5.2	22
25	Experimental analysis of hydrogen peroxide film-cooling method for nontoxic hypergolic thruster. Aerospace Science and Technology, 2017, 71, 751-762.	4.8	13
26	Ground simulation of a hybrid power strategy using fuel cells and solar cells for high-endurance unmanned aerial vehicles. Energy, 2017, 141, 1547-1554.	8.8	24
27	Fabrication of a liquid monopropellant microthruster with built-in regenerative micro-cooling channels. Sensors and Actuators A: Physical, 2017, 263, 332-340.	4.1	19
28	Effect of H2O2 injection patterns on catalyst bed characteristics. Acta Astronautica, 2017, 130, 75-83.	3.2	14
29	Simple catalyst bed sizing of a NaBH 4 hydrogen generator with fast startup for small unmanned aerial vehicles. International Journal of Hydrogen Energy, 2016, 41, 1018-1026.	7.1	26
30	The proton exchange membrane fuel cell systems using methanolysis of sodium borohydride as a hydrogen source with cobalt catalysts. International Journal of Green Energy, 2016, 13, 1224-1231.	3.8	24
31	Transient behavior of proton exchange membrane fuel cells over a cobalt–phosphorous/nickel foam catalyst with sodium borohydride. International Journal of Hydrogen Energy, 2016, 41, 524-533.	7.1	15
32	Compact design of oxidative steam reforming of methanol assisted by blending hydrogen peroxide. International Journal of Hydrogen Energy, 2015, 40, 12697-12704.	7.1	9
33	Performance Evaluation of Small-scale Liquid Pump using a Radial Turbine with H ₂ O ₂ Gas Generator. Transactions of the Japan Society for Aeronautical and Space Sciences, 2015, 58, 253-260.	0.7	3
34	Lanthanum doping for longevity of alumina catalyst bed in hydrogen peroxide thruster. Aerospace Science and Technology, 2015, 46, 197-203.	4.8	29
35	Sodium borohydride hydrogen generator using Co–P/Ni foam catalysts for 200ÂW proton exchange membrane fuel cell system. Energy, 2015, 90, 1163-1170.	8.8	42
36	Lightweight Magnesium Bipolar Plates of Direct NaBH4/H2O2 Fuel Cell for AIP Application. International Journal of Turbo and Jet Engines, 2015, 32, .	0.7	1

ΚΥΊ-SEOP ΚΙΜ

#	Article	IF	CITATIONS
37	Estimating the energy density of direct borohydride–hydrogen peroxide fuel cell systems for air-independent propulsion applications. Energy, 2015, 90, 980-986.	8.8	16
38	Autoignitable and Restartable Hybrid Rockets Using Catalytic Decomposition of an Oxidizer. Journal of Propulsion and Power, 2014, 30, 514-518.	2.2	19
39	Micro Shear-Stress Sensor for Separation Detection During Flight of Unmanned Aerial Vehicles Using a Strain Gauge. IEEE Sensors Journal, 2014, 14, 1012-1019.	4.7	7
40	Stall inception and warning in a single-stage transonic axial compressor with axial skewed slot casing treatment. Journal of Mechanical Science and Technology, 2014, 28, 3569-3581.	1.5	8
41	Performance evaluation of direct borohydride–hydrogen peroxide fuel cells with electrocatalysts supported on multiwalled carbon nanotubes. Energy, 2014, 76, 911-919.	8.8	22
42	Electrocatalysts supported on multiwalled carbon nanotubes for direct borohydride–hydrogen peroxide fuel cell. International Journal of Hydrogen Energy, 2014, 39, 6977-6986.	7.1	31
43	Effect of heat treatment of electrodes on direct borohydride-hydrogen peroxide fuel cell performance. Journal of Power Sources, 2014, 268, 63-68.	7.8	13
44	Performance evaluation of hydrogen generation system with electroless-deposited Co–P/Ni foam catalyst for NaBH4 hydrolysis. International Journal of Hydrogen Energy, 2013, 38, 6425-6435.	7.1	41
45	Effect of Unsteadiness and Nozzle Asymmetry on Thrust of a Microthruster. Nanoscale and Microscale Thermophysical Engineering, 2012, 16, 50-63.	2.6	3
46	Chugging Instability of H2O2 Monopropellant Thrusters with Reactor Aspect Ratio and Pressures. Journal of Propulsion and Power, 2011, 27, 422-427.	2.2	40
47	Optimum Nozzle Angle of a Micro Solid-Propellant Thruster. Nanoscale and Microscale Thermophysical Engineering, 2011, 15, 165-178.	2.6	9
48	Chugging Instability of H2O2 Monopropellant Thrusters with Catalyst Reactivity and Support Sizes. Journal of Propulsion and Power, 2011, 27, 920-924.	2.2	24
49	Design, fabrication, and testing of MEMS solid propellant thruster array chip on glass wafer. Sensors and Actuators A: Physical, 2010, 157, 126-134.	4.1	53
50	Hydrogen Peroxide-Based Gas Generator Design and Performance Testing as an Aircraft Emergency Power Unit. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	1.1	2
51	Design and performance evaluation of a bellows-type mixture ratio stabilizer for a liquid bipropellant rocket engine. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2009, 223, 723-731.	2.1	1
52	Mixing efficiency of a multilamination micromixer with consecutive recirculation zones. Chemical Engineering Science, 2009, 64, 1223-1231.	3.8	37
53	Microcatalytic Combustion of H ₂ on Pt/Al ₂ O ₃ -Coated Nickel Foam. Combustion Science and Technology, 2009, 181, 211-225.	2.3	11
54	Scaling and Evaluation of Pt/Al2O3 Catalytic Reactor for Hydrogen Peroxide Monopropellant Thruster. Journal of Propulsion and Power, 2009, 25, 1041-1045.	2.2	59

Күи-Ѕеор Кім

#	Article	IF	CITATIONS
55	Integrated fabrication of a micro methanol reformer and a hydrogen peroxide heat source. , 2007, , .		0
56	Catalyst preparation for fabrication of a MEMS fuel reformer. Chemical Engineering Journal, 2006, 123, 93-102.	12.7	31
57	NUMERICAL SIMULATION OF FLAME PROPAGATION NEAR EXTINCTION CONDITION IN A MICRO COMBUSTOR. Microscale Thermophysical Engineering, 2004, 8, 71-89.	1.2	10
58	Statistical analysis of the fractal nature of turbulent premixed flames. Combustion Science and Technology, 2003, 175, 1317-1332.	2.3	2
59	A MEMS Piston-Cylinder Device Actuated by Combustion. Journal of Heat Transfer, 2003, 125, 487-493.	2.1	11
60	The Effect of Volume Expansion on the Propagation of Wrinkled Laminar Premixed Flame. Combustion Science and Technology, 1999, 146, 85-103.	2.3	1
61	Design and fabrication of micromachined internal combustion engine as a power source for microsystems. , 0, , .		5
62	Evaluation of Silver-coated Magnesium Bipolar Plate for Lightweight PEM Fuel Cell Stack. International Journal of Green Energy, 0, , 141111165052003.	3.8	4