

Jeongmin Ahn

List of Publications by Year in descending order

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72
papers

2,314
citations

279701

23
h-index

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46
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73
all docs

73
docs citations

73
times ranked

1827
citing authors

#	ARTICLE	IF	CITATIONS
1	A thermally self-sustained micro solid-oxide fuel-cell stack with high power density. <i>Nature</i> , 2005, 435, 795-798.	13.7	583
2	Gas-phase and catalytic combustion in heat-recirculating burners. <i>Proceedings of the Combustion Institute</i> , 2005, 30, 2463-2472.	2.4	247
3	Advances and challenges in the development of power-generation systems at small scales. <i>Progress in Energy and Combustion Science</i> , 2011, 37, 583-610.	15.8	216
4	Evaluation of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} as a potential cathode for an anode-supported proton-conducting solid-oxide fuel cell. <i>Journal of Power Sources</i> , 2008, 180, 15-22.	4.0	156
5	Extinction limits of catalytic combustion in microchannels. <i>Proceedings of the Combustion Institute</i> , 2002, 29, 957-963.	2.4	132
6	Properties and performance of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} +Sm _{0.2} Ce _{0.8} O _{1.9} composite cathode. <i>Journal of Power Sources</i> , 2008, 179, 60-68.	4.0	89
7	Electrochemical performance of silver-modified Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} cathodes prepared via electroless deposition. <i>Electrochimica Acta</i> , 2008, 53, 4370-4380.	2.6	85
8	Nanoparticle molybdenum dioxide: A highly active catalyst for partial oxidation of aviation fuels. <i>Applied Catalysis B: Environmental</i> , 2010, 98, 186-192.	10.8	54
9	High performance direct flame fuel cell using a propane flame. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 3431-3437.	2.4	51
10	Micro-tubular flame-assisted fuel cells for micro-combined heat and power systems. <i>Journal of Power Sources</i> , 2016, 306, 148-151.	4.0	48
11	Synthesis and assessment of La _{0.8} Sr _{0.2} Sc _y Mn _{1-y} O _{3-δ} as cathodes for solid-oxide fuel cells on scandium-stabilized zirconia electrolyte. <i>Journal of Power Sources</i> , 2008, 183, 471-478.	4.0	44
12	Demonstration of an external combustion micro-heat engine. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 3099-3105.	2.4	41
13	Flame-assisted fuel cells running methane. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4659-4665.	3.8	38
14	Micro-tubular flame-assisted fuel cells running methane. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20670-20679.	3.8	37
15	Initialization of a methane-fueled single-chamber solid-oxide fuel cell with NiO+SDC anode and BSCF+SDC cathode. <i>Journal of Power Sources</i> , 2008, 179, 640-648.	4.0	35
16	Performance investigation of a micro-tubular flame-assisted fuel cell stack with 3,000 rapid thermal cycles. <i>Journal of Power Sources</i> , 2018, 394, 86-93.	4.0	35
17	Micro-tubular flame-assisted fuel cell stacks. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21489-21496.	3.8	34
18	Investigation of startup, performance and cycling of a residential furnace integrated with micro-tubular flame-assisted fuel cells for micro-combined heat and power. <i>Energy</i> , 2020, 196, 117148.	4.5	29

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19	Rich-burn, flame-assisted fuel cell, quick-mix, lean-burn (RFQL) combustor and power generation. Journal of Power Sources, 2018, 381, 18-25.	4.0	28
20	Solid-oxide fuel cell operated on in situ catalytic decomposition products of liquid hydrazine. Journal of Power Sources, 2008, 177, 323-329.	4.0	27
21	Micro-tubular flame-assisted fuel cells running methane, propane and butane: On soot, efficiency and power density. Energy, 2019, 169, 776-782.	4.5	26
22	Review and analysis of fuel cell-based, micro-cogeneration for residential applications: Current state and future opportunities. Science and Technology for the Built Environment, 2017, 23, 1224-1243.	0.8	25
23	Microcombustion for micro-tubular flame-assisted fuel cell power and heat cogeneration. Journal of Power Sources, 2019, 413, 191-197.	4.0	23
24	Performance variation with SDC buffer layer thickness. International Journal of Hydrogen Energy, 2016, 41, 9500-9506.	3.8	22
25	Investigation of oxygen transport membrane reactors for oxy-fuel combustion and carbon capture purposes. Proceedings of the Combustion Institute, 2017, 36, 3969-3976.	2.4	22
26	A Thermally Self-Sustaining Miniature Solid Oxide Fuel Cell. Journal of Fuel Cell Science and Technology, 2009, 6, .	0.8	20
27	Performance Investigation of Dual Layer Yttria-Stabilized Zirconia-Samaria-Doped Ceria Electrolyte for Intermediate Temperature Solid Oxide Fuel Cells. Journal of Electrochemical Energy Conversion and Storage, 2016, 13, .	1.1	18
28	Investigation of microcombustion reforming of ethane/air and micro-Tubular Solid Oxide Fuel Cells. Journal of Power Sources, 2020, 450, 227606.	4.0	16
29	Thermal Transpiration Based Pumping and Power Generation Devices. Journal of Thermal Science and Technology, 2013, 8, 370-379.	0.6	13
30	Impact of low concentration hydrocarbons in natural gas on thermal partial oxidation in a micro-flow reactor for solid oxide fuel cell applications. Journal of Power Sources, 2020, 477, 229007.	4.0	13
31	A self-sustaining thermal transpiration gas pump and SOFC power generation system. Proceedings of the Combustion Institute, 2013, 34, 3327-3334.	2.4	12
32	Interfacial Impedance Studies of Multilayer Structured Electrolyte Fabricated With Solvent-Casted PEO10-LiN(CF3SO2)2 and Ceramic Li1.3Al0.3Ti1.7(PO4)3 and Its Application in All-Solid-State Lithium Ion Batteries. Journal of Electrochemical Energy Conversion and Storage, 2016, 13, .	1.1	12
33	Micro-tubular flame-assisted fuel cells. Journal of Fluid Science and Technology, 2017, 12, JFST0021-JFST0021.	0.2	12
34	EFFECTS OF SINTERING TEMPERATURE ON THE PERFORMANCE OF SrSc0.1Co0.9O3- δ OXYGEN SEMIPERMEABLE MEMBRANE. Brazilian Journal of Chemical Engineering, 2015, 32, 757-765.	0.7	9
35	Thermal partial oxidation of n-butane in a micro-flow reactor and solid oxide fuel cell stability assessment. Energy Conversion and Management, 2022, 254, 115222.	4.4	9
36	Combustion Characterization and Model Fuel Development for Micro-tubular Flame-assisted Fuel Cells. Journal of Visualized Experiments, 2016, , .	0.2	7

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37	Investigation of the effects of electrochemical reactions on complex metal tribocorrosion within the human body. Heliyon, 2021, 7, e07023.	1.4	6
38	Micro-Tubular Solid Oxide Fuel Cell Polarization and Impedance Variation With Thin Porous Samarium-Doped Ceria and Gadolinium-Doped Ceria Buffer Layer Thickness. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	1.1	6
39	TiOX-polyaniline composite films for high-performance supercapacitors. Journal of the Korean Physical Society, 2014, 64, 182-185.	0.3	5
40	Novel investigation of perovskite membrane based electrochemical nitric oxide control phenomenon. Scientific Reports, 2020, 10, 18750.	1.6	5
41	The anode supported internal cathode tubular solid oxide fuel cell: Novel production of a cell geometry for combined heat and power applications. International Journal of Hydrogen Energy, 2021, 46, 37429-37439.	3.8	5
42	Investigation of Rapid, Moderate Temperature Change Thermal Cycles of a Micro-Tubular Flame-Assisted Fuel Cell. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	1.1	3
43	Effects of Synthesis Gas Concentration, Composition, and Operational Time on Tubular Solid Oxide Fuel Cell Performance. Sustainability, 2022, 14, 7983.	1.6	3
44	Effect of Scale on the Performance of Heat-Recirculating Reactors. , 2006, , .		2
45	Thermal Transpiration Based Micro-Scale Pumping and Power Generation Devices. , 2009, , .		2
46	Performance Investigation of YSZ-SDC Solid Oxide Fuel Cells. , 2012, , .		2
47	Driving electrochemical corrosion of implanted CoCrMo metal via oscillatory electric fields without mechanical wear. Scientific Reports, 2021, 11, 22366.	1.6	2
48	A High-Performance No-Chamber Fuel Cell Operated on Flame. , 2008, , .		1
49	Methane-Based Flame Fuel Cell Using Anode Supported Solid Oxide Fuel Cells. , 2011, , .		1
50	Exploring the performance of dual-phase oxygen transport membranes for carbon capture purposes. Journal of Fluid Science and Technology, 2017, 12, JFST0028-JFST0028.	0.2	1
51	Investigation of a Piston Engine and Solid Oxide Fuel Cell Combined Hybrid Modular Powerplant for Unmanned Aerial Vehicles. , 0, , .		1
52	Effect of Ammonia Treatment on Pt Catalyst Used for Low-Temperature Reaction. , 2007, , 135.		0
53	Plastic Mesoscale Combustors/Heat Exchangers. , 2007, , 141.		0
54	A Thermally Self-Sustaining Miniature Solid Oxide Fuel Cell. , 2007, , 117.		0

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55	Plastic Mesoscale Heat Exchangers. , 2007, , .		0
56	A Thermally Self-Sustaining Miniature Solid Oxide Fuel Cell. , 2007, , .		0
57	Development of Combustion-Driven Thermoacoustic Engine. , 2008, , .		0
58	A High-Performance Flame Fuel Cell Using Ethanol as Fuels. , 2008, , .		0
59	Catalytic Combustion-Driven Thermal Transpiration Pump and Power Generation Device. , 2011, , .		0
60	Evaluation of methane-based flame fuel cell using anode supported solid oxide fuel cells. , 2011, , .		0
61	Non-Propulsive Miniature Power Device Based on SOFC and Combustion-Driven Thermal Transpiration Pump. , 2011, , .		0
62	Methane-Based Flame Fuel Cell Using Anode Supported Solid Oxide Fuel Cells. , 2011, , .		0
63	Power Generation From Thermal Transpiration Based Pumping Devices. , 2014, , .		0
64	A Ceramic-Membrane-Based Methane Combustion Reactor With Tailored Function of Simultaneous Separation of Carbon Dioxide From Nitrogen. , 2014, , .		0
65	A Ceramic-Membrane-Based Methane Combustion Reactor With Tailored Function of Simultaneous Separation of Carbon Dioxide From Nitrogen. , 2014, , .		0
66	Thermal Transpiration Based Propulsion. , 2014, , .		0
67	Experimental study of oxygen transport membranes for oxy-fuel combustion reactors. Journal of Fluid Science and Technology, 2016, 11, JFST0025-JFST0025.	0.2	0
68	Micro-Tubular Flame-Assisted Fuel Cell Power Generation Running Propane and Butane. , 2018, , .		0
69	Investigation of a Hybrid Powertrain Utilizing Solid Oxide Fuel Cells and Internal Combustion Engine for Unmanned Aerial Vehicles. , 2021, , .		0
70	An Electricity and Value-Added Gases Co-Generation via Solid Oxide Fuel Cells. , 2013, , .		0
71	Single-Phase Ceramic Membranes Integrated With Combustion Processes. , 2013, , .		0
72	Comparison of in vitro corrosion products on CoCrMo generated via oscillatory electric fields before and after removal of proteinaceous layer. Materialia, 2022, 22, 101400.	1.3	0