

Jeongmin Ahn

List of Publications by Year in descending order

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72
papers

2,314
citations

279487

23
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all docs

73
docs citations

73
times ranked

1827
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal partial oxidation of n-butane in a micro-flow reactor and solid oxide fuel cell stability assessment. <i>Energy Conversion and Management</i> , 2022, 254, 115222.	4.4	9
2	Comparison of in vitro corrosion products on CoCrMo generated via oscillatory electric fields before and after removal of proteinaceous layer. <i>Materialia</i> , 2022, 22, 101400.	1.3	0
3	Effects of Synthesis Gas Concentration, Composition, and Operational Time on Tubular Solid Oxide Fuel Cell Performance. <i>Sustainability</i> , 2022, 14, 7983.	1.6	3
4	Investigation of Rapid, Moderate Temperature Change Thermal Cycles of a Micro-Tubular Flame-Assisted Fuel Cell. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021, 18, .	1.1	3
5	Investigation of the effects of electrochemical reactions on complex metal tribocorrosion within the human body. <i>Heliyon</i> , 2021, 7, e07023.	1.4	6
6	Investigation of a Hybrid Powertrain Utilizing Solid Oxide Fuel Cells and Internal Combustion Engine for Unmanned Aerial Vehicles. , 2021, , .		0
7	The anode supported internal cathode tubular solid oxide fuel cell: Novel production of a cell geometry for combined heat and power applications. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 37429-37439.	3.8	5
8	Micro-Tubular Solid Oxide Fuel Cell Polarization and Impedance Variation With Thin Porous Samarium-Doped Ceria and Gadolinium-Doped Ceria Buffer Layer Thickness. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021, 18, .	1.1	6
9	Driving electrochemical corrosion of implanted CoCrMo metal via oscillatory electric fields without mechanical wear. <i>Scientific Reports</i> , 2021, 11, 22366.	1.6	2
10	Investigation of microcombustion reforming of ethane/air and micro-Tubular Solid Oxide Fuel Cells. <i>Journal of Power Sources</i> , 2020, 450, 227606.	4.0	16
11	Impact of low concentration hydrocarbons in natural gas on thermal partial oxidation in a micro-flow reactor for solid oxide fuel cell applications. <i>Journal of Power Sources</i> , 2020, 477, 229007.	4.0	13
12	Novel investigation of perovskite membrane based electrochemical nitric oxide control phenomenon. <i>Scientific Reports</i> , 2020, 10, 18750.	1.6	5
13	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
14	Micro-tubular flame-assisted fuel cells running methane, propane and butane: On soot, efficiency and power density. <i>Energy</i> , 2019, 169, 776-782.	4.5	26
15	Microcombustion for micro-tubular flame-assisted fuel cell power and heat cogeneration. <i>Journal of Power Sources</i> , 2019, 413, 191-197.	4.0	23
16	Rich-burn, flame-assisted fuel cell, quick-mix, lean-burn (RFQL) combustor and power generation. <i>Journal of Power Sources</i> , 2018, 381, 18-25.	4.0	28
17	Micro-Tubular Flame-Assisted Fuel Cell Power Generation Running Propane and Butane. , 2018, , .		0
18	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

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19	Review and analysis of fuel cell-based, micro-cogeneration for residential applications: Current state and future opportunities. <i>Science and Technology for the Built Environment</i> , 2017, 23, 1224-1243.	0.8	25
20	Investigation of oxygen transport membrane reactors for oxy-fuel combustion and carbon capture purposes. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3969-3976.	2.4	22
21	Exploring the performance of dual-phase oxygen transport membranes for carbon capture purposes. <i>Journal of Fluid Science and Technology</i> , 2017, 12, JFST0028-JFST0028.	0.2	1
22	Micro-tubular flame-assisted fuel cells. <i>Journal of Fluid Science and Technology</i> , 2017, 12, JFST0021-JFST0021.	0.2	12
23	Interfacial Impedance Studies of Multilayer Structured Electrolyte Fabricated With Solvent-Casted PEO10 $\hat{\text{a}}$ LiN(CF3SO2)2 and Ceramic Li1.3Al0.3Ti1.7(PO4)3 and Its Application in All-Solid-State Lithium Ion Batteries. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2016, 13, .	1.1	12
24	Micro-tubular flame-assisted fuel cells running methane. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20670-20679.	3.8	37
25	Micro-tubular flame-assisted fuel cell stacks. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21489-21496.	3.8	34
26	Experimental study of oxygen transport membranes for oxy-fuel combustion reactors. <i>Journal of Fluid Science and Technology</i> , 2016, 11, JFST0025-JFST0025.	0.2	0
27	Combustion Characterization and Model Fuel Development for Micro-tubular Flame-assisted Fuel Cells. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	7
28	Performance variation with SDC buffer layer thickness. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9500-9506.	3.8	22
29	Performance Investigation of Dual Layer Yttria-Stabilized Zirconia $\hat{\text{a}}$ Samaria-Doped Ceria Electrolyte for Intermediate Temperature Solid Oxide Fuel Cells. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2016, 13, .	1.1	18
30	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
31	EFFECTS OF SINTERING TEMPERATURE ON THE PERFORMANCE OF SrSc0.1Co0.9O3- $\hat{\text{I}}$ OXYGEN SEMIPERMEABLE MEMBRANE. <i>Brazilian Journal of Chemical Engineering</i> , 2015, 32, 757-765.	0.7	9
32	Flame-assisted fuel cells running methane. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4659-4665.	3.8	38
33	Power Generation From Thermal Transpiration Based Pumping Devices. , 2014, , .		0
34	TiOX-polyaniline composite films for high-performance supercapacitors. <i>Journal of the Korean Physical Society</i> , 2014, 64, 182-185.	0.3	5
35	A Ceramic-Membrane-Based Methane Combustion Reactor With Tailored Function of Simultaneous Separation of Carbon Dioxide From Nitrogen. , 2014, , .		0
36	A Ceramic-Membrane-Based Methane Combustion Reactor With Tailored Function of Simultaneous Separation of Carbon Dioxide From Nitrogen. , 2014, , .		0

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37	Thermal Transpiration Based Propulsion. , 2014, , .		0
38	A self-sustaining thermal transpiration gas pump and SOFC power generation system. Proceedings of the Combustion Institute, 2013, 34, 3327-3334.	2.4	12
39	Thermal Transpiration Based Pumping and Power Generation Devices. Journal of Thermal Science and Technology, 2013, 8, 370-379.	0.6	13
40	An Electricity and Value-Added Gases Co-Generation via Solid Oxide Fuel Cells. , 2013, , .		0
41	Single-Phase Ceramic Membranes Integrated With Combustion Processes. , 2013, , .		0
42	Performance Investigation of YSZ-SDC Solid Oxide Fuel Cells. , 2012, , .		2
43	Catalytic Combustion-Driven Thermal Transpiration Pump and Power Generation Device. , 2011, , .		0
44	Evaluation of methane-based flame fuel cell using anode supported solid oxide fuel cells. , 2011, , .		0
45	Methane-Based Flame Fuel Cell Using Anode Supported Solid Oxide Fuel Cells. , 2011, , .		1
46	Non-Propulsive Miniature Power Device Based on SOFC and Combustion-Driven Thermal Transpiration Pump. , 2011, , .		0
47	Methane-Based Flame Fuel Cell Using Anode Supported Solid Oxide Fuel Cells. , 2011, , .		0
48	Advances and challenges in the development of power-generation systems at small scales. Progress in Energy and Combustion Science, 2011, 37, 583-610.	15.8	216
49	High performance direct flame fuel cell using a propane flame. Proceedings of the Combustion Institute, 2011, 33, 3431-3437.	2.4	51
50	Nanoparticle molybdenum dioxide: A highly active catalyst for partial oxidation of aviation fuels. Applied Catalysis B: Environmental, 2010, 98, 186-192.	10.8	54
51	Demonstration of an external combustion micro-heat engine. Proceedings of the Combustion Institute, 2009, 32, 3099-3105.	2.4	41
52	Thermal Transpiration Based Micro-Scale Pumping and Power Generation Devices. , 2009, , .		2
53	A Thermally Self-Sustaining Miniature Solid Oxide Fuel Cell. Journal of Fuel Cell Science and Technology, 2009, 6, .	0.8	20
54	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

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55	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. Journal of Power Sources, 2008, 179, 60-68.	4.0	89
56	Initialization of a methane-fueled single-chamber solid-oxide fuel cell with NiO+SDC anode and BSCF+SDC cathode. Journal of Power Sources, 2008, 179, 640-648.	4.0	35
57	Synthesis and assessment of La _{0.8} Sr _{0.2} Sc _{1-x} Y _x O _{3-δ} as cathodes for solid-oxide fuel cells on scandium-stabilized zirconia electrolyte. Journal of Power Sources, 2008, 183, 471-478.	4.0	44
58	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. Journal of Power Sources, 2008, 180, 15-22.	4.0	156
59	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. Electrochimica Acta, 2008, 53, 4370-4380.	2.6	85
60	Development of Combustion-Driven Thermoacoustic Engine. , 2008, , .		0
61	A High-Performance Flame Fuel Cell Using Ethanol as Fuels. , 2008, , .		0
62	A High-Performance No-Chamber Fuel Cell Operated on Flame. , 2008, , .		1
63	Effect of Ammonia Treatment on Pt Catalyst Used for Low-Temperature Reaction. , 2007, , 135.		0
64	Plastic Mesoscale Combustors/Heat Exchangers. , 2007, , 141.		0
65	A Thermally Self-Sustaining Miniature Solid Oxide Fuel Cell. , 2007, , 117.		0
66	Plastic Mesoscale Heat Exchangers. , 2007, , .		0
67	A Thermally Self-Sustaining Miniature Solid Oxide Fuel Cell. , 2007, , .		0
68	Effect of Scale on the Performance of Heat-Recirculating Reactors. , 2006, , .		2
69	Gas-phase and catalytic combustion in heat-recirculating burners. Proceedings of the Combustion Institute, 2005, 30, 2463-2472.	2.4	247
70	A thermally self-sustained micro solid-oxide fuel-cell stack with high power density. Nature, 2005, 435, 795-798.	13.7	583
71	Extinction limits of catalytic combustion in microchannels. Proceedings of the Combustion Institute, 2002, 29, 957-963.	2.4	132
72	Investigation of a Piston Engine and Solid Oxide Fuel Cell Combined Hybrid Modular Powerplant for Unmanned Aerial Vehicles. , 0, , .		1