

# Joongmyeon Bae

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2259823/publications.pdf>

Version: 2024-02-01

119  
papers

3,283  
citations

172457

29  
h-index

175258

52  
g-index

119  
all docs

119  
docs citations

119  
times ranked

2421  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical performance of solid oxide electrolysis cell electrodes under high-temperature coelectrolysis of steam and carbon dioxide. Journal of Power Sources, 2011, 196, 7161-7168.	7.8	161
2	Advanced Electrochemical Properties of LnBa <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>2</sub> O <sub>5+δ</sub> (Ln=Pr, Sm, and Tj) Electrodes for Intermediate Temperature Solid Oxide Fuel Cells. Journal of Power Sources, 2011, 196, 7169-7175.	2.9	151
3	Performance comparison of autothermal reforming for liquid hydrocarbons, gasoline and diesel for fuel cell applications. Journal of Power Sources, 2006, 163, 538-546.	7.8	139
4	Electrochemical Investigation of Composite Cathodes with SmBa <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>2</sub> O <sub>5+δ</sub> Cathodes for Intermediate Temperature-Operating Solid Oxide Fuel Cell. Chemistry of Materials, 2010, 22, 883-892.	6.7	115
5	Structural, thermal and electrochemical properties of layered perovskite SmBaCo <sub>2</sub> O <sub>5+δ</sub> , a potential cathode material for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2009, 194, 704-711.	7.8	111
6	Autothermal reforming study of diesel for fuel cell application. Journal of Power Sources, 2006, 159, 1283-1290.	7.8	106
7	Fast performance degradation of SOFC caused by cathode delamination in long-term testing. International Journal of Hydrogen Energy, 2010, 35, 8670-8677.	7.1	99
8	Effects of ethylene on carbon formation in diesel autothermal reforming. International Journal of Hydrogen Energy, 2008, 33, 4780-4788.	7.1	98
9	Performance of solid oxide electrolysis cells based on composite La <sub>0.8</sub> Sr <sub>0.2</sub> MnO <sub>3</sub> -yttria stabilized zirconia and Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> oxygen electrodes. International Journal of Hydrogen Energy, 2010, 35, 3958-3966.	7.1	92
10	Liquid fuel processing for hydrogen production: A review. International Journal of Hydrogen Energy, 2016, 41, 19990-20022.	7.1	89
11	Visualization of flooding in a single cell and stacks by using a newly-designed transparent PEMFC. International Journal of Hydrogen Energy, 2012, 37, 422-435.	7.1	82
12	Suppression of ethylene-induced carbon deposition in diesel autothermal reforming. International Journal of Hydrogen Energy, 2009, 34, 1844-1851.	7.1	72
13	Characteristics of ABO <sub>3</sub> and A <sub>2</sub> BO <sub>4</sub> (A Sm, Sr; B Co, Fe, Ni) samarium oxide system as cathode materials for intermediate temperature-operating solid oxide fuel cell. Solid State Ionics, 2008, 179, 1570-1574.	2.7	65
14	Development of a high-energy-density portable/mobile hydrogen energy storage system incorporating an electrolyzer, a metal hydride and a fuel cell. Applied Energy, 2020, 259, 114175.	10.1	62
15	A Simple Descriptor to Rapidly Screen CO Oxidation Activity on Rare-Earth Metal-Doped CeO <sub>2</sub> : From Experiment to First-Principles. ACS Applied Materials & Interfaces, 2017, 9, 15449-15458.	8.0	59
16	Cathode reaction mechanism of porous-structured Sm <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>3</sub> and Sm <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>3</sub> /Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> for solid oxide fuel cells. Journal of Power Sources, 2009, 193, 431-440.	7.8	55
17	Performance of solid oxide electrolysis cell having bi-layered electrolyte during steam electrolysis and carbon dioxide electrolysis. Current Applied Physics, 2011, 11, S223-S228.	2.4	52
18	Performance improvement of diesel autothermal reformer by applying ultrasonic injector for effective fuel delivery. Journal of Power Sources, 2007, 172, 845-852.	7.8	51

#	ARTICLE	IF	CITATIONS
19	Pt/CeO <sub>2</sub> catalyst synthesized by combustion method for dehydrogenation of perhydro-dibenzyltoluene as liquid organic hydrogen carrier: Effect of pore size and metal dispersion. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 5520-5529.	7.1	49
20	Oxidation-resistant thin film coating on ferritic stainless steel by sputtering for solid oxide fuel cells. <i>Thin Solid Films</i> , 2008, 516, 6432-6437.	1.8	48
21	Performance of SOFC coupled with n-C <sub>4</sub> H <sub>10</sub> autothermal reformer: Carbon deposition and development of anode structure. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 12346-12358.	7.1	48
22	Fabrication and characterization of metal-supported solid oxide fuel cells. <i>Journal of Power Sources</i> , 2008, 176, 62-69.	7.8	47
23	Effect of unsintered gadolinium-doped ceria buffer layer on performance of metal-supported solid oxide fuel cells using unsintered barium strontium cobalt ferrite cathode. <i>Journal of Power Sources</i> , 2010, 195, 6420-6427.	7.8	47
24	Electrochemical performance of unsintered Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> , La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> , and La <sub>0.8</sub> Sr <sub>0.2</sub> MnO <sub>3-<math>\delta</math></sub> cathodes for metal-supported solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3138-3146.	7.1	45
25	Self-sustained operation of a kW <sub>e</sub> -class kerosene-reforming processor for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2009, 192, 360-366.	7.8	43
26	Improved configuration of supported nickel catalysts in a steam reformer for effective hydrogen production from methane. <i>Journal of Power Sources</i> , 2008, 180, 506-515.	7.8	40
27	Performance analysis of cobalt-based cathode materials for solid oxide fuel cell. <i>Solid State Ionics</i> , 2008, 179, 1490-1496.	2.7	40
28	Ni-Me/Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>2-<math>\delta</math></sub> (Me: Rh, Pt and Ru) catalysts for diesel pre-reforming. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 3207-3216.	7.1	36
29	Diesel autothermal reforming with hydrogen peroxide for low-oxygen environments. <i>Applied Energy</i> , 2015, 156, 99-106.	10.1	35
30	Fabrication of solid oxide fuel cells (SOFCs) by solvent-controlled co-tape casting technique. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1648-1660.	7.1	32
31	Long-term performance of anode-supported SOFC integrated with metal interconnect by joining process. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4285-4291.	7.1	30
32	Comparative energetic studies on liquid organic hydrogen carrier: A net energy analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111447.	16.4	30
33	Small stack performance of intermediate temperature-operating solid oxide fuel cells using stainless steel interconnects and anode-supported single cell. <i>Journal of Power Sources</i> , 2007, 172, 100-107.	7.8	29
34	Structural and electrochemical properties of Pr <sub>0.3</sub> Sr <sub>0.7</sub> Co <sub>0.3</sub> Fe <sub>0.7</sub> O <sub>3-<math>\delta</math></sub> cathode for IT-SOFC. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 6852-6860.	7.1	29
35	The micro-reactor testing of catalysts and fuel delivery apparatuses for diesel autothermal reforming. <i>Catalysis Today</i> , 2008, 136, 249-257.	4.4	28
36	Study of activity and effectiveness factor of noble metal catalysts for water-gas shift reaction. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 870-876.	7.1	28

#	ARTICLE	IF	CITATIONS
37	Characterization of electrochemical reaction and thermo-fluid flow in metal-supported solid oxide fuel cell stacks with various manifold designs. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 1717-1730.	7.1	28
38	Analysis of chemical, electrochemical reactions and thermo-fluid flow in methane-feed internal reforming SOFCs: Part I – Modeling and effect of gas concentrations. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8512-8531.	7.1	28
39	Evaluation of metal-supported solid oxide fuel cells (MS-SOFCs) fabricated at low temperature ( $\sim 1,000^{\circ}\text{C}$ ) using wet chemical coating processes and a catalyst wet impregnation method. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3786-3796.	7.1	28
40	A diesel fuel processor for stable operation of solid oxide fuel cells system: I. Introduction to post-reforming for the diesel fuel processor. <i>Catalysis Today</i> , 2010, 156, 49-57.	4.4	27
41	A diesel fuel processor for stable operation of solid oxide fuel cells system: II. Integrated diesel fuel processor for the operation of solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9228-9236.	7.1	24
42	Development of a self-sustaining kW-class integrated diesel fuel processing system for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10302-10310.	7.1	23
43	Analysis of chemical, electrochemical reactions and thermo-fluid flow in methane-feed internal reforming SOFCs: Part II-temperature effect. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8532-8555.	7.1	23
44	A diesel-driven, metal-based solid oxide fuel cell. <i>Journal of Power Sources</i> , 2014, 250, 98-104.	7.8	23
45	Metal-supported solid oxide fuel cells with barium-containing in-situ cathodes. <i>Solid State Ionics</i> , 2011, 192, 387-393.	2.7	22
46	Performance analysis of Cu, Sn and Rh impregnated NiO/CGO91 anode for butane internal reforming SOFC at intermediate temperature. <i>Renewable Energy</i> , 2015, 83, 483-490.	8.9	22
47	Anodic behavior of $8\text{Y}_2\text{O}_3\text{-ZrO}_2/\text{NiO}$ cermet using an anode-supported electrode. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 689-705.	7.1	21
48	A novel sol-gel coating method for fabricating dense layers on porous surfaces particularly for metal-supported SOFC electrolyte. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6220-6230.	7.1	21
49	Evaluation of Ag-doped $(\text{MnCo})_3\text{O}_4$ spinel as a solid oxide fuel cell metallic interconnect coating material. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29511-29517.	7.1	21
50	Development of a thermally self-sustaining kW-class diesel reformer using hydrogen peroxide for hydrogen production in low-oxygen environments. <i>Journal of Power Sources</i> , 2016, 326, 341-348.	7.8	20
51	Connected evaluation of polymer electrolyte membrane fuel cell with dehydrogenation reactor of liquid organic hydrogen carrier. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 13398-13405.	7.1	20
52	$\text{La}_{0.8}\text{Sr}_{0.2}\text{Cr}_{0.95}\text{Ru}_{0.05}\text{O}_{3-x}$ and $\text{Sm}_{0.8}\text{Ba}_{0.2}\text{Cr}_{0.95}\text{Ru}_{0.05}\text{O}_{3-x}$ as partial oxidation catalysts for diesel. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4938-4946.	7.1	19
53	Long-term durability of $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_{\sim 3}$ as a fuel electrode of solid oxide electrolysis cells for co-electrolysis. <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 31, 192-197.	6.8	19
54	Electrochemical simulation using material properties of a ceramic electrode and electrolyte. <i>Current Applied Physics</i> , 2011, 11, S219-S222.	2.4	18

#	ARTICLE	IF	CITATIONS
55	Characteristics of nano $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ -infiltrated $\text{La}_{0.8}\text{Sr}_{0.2}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_{3-\delta}$ scaffold cathode for enhanced oxygen reduction. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 13399-13407.	7.1	18
56	Investigation of electrospun $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ - $\text{Gd}_{0.1}\text{Ce}_{0.9}\text{O}_{1.95}$ cathodes for enhanced interfacial adhesion. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 21535-21546.	7.1	18
57	Deep-learning- and reinforcement-learning-based profitable strategy of a grid-level energy storage system for the smart grid. <i>Journal of Energy Storage</i> , 2021, 41, 102868.	8.1	18
58	Interconnect-integrated solid oxide fuel cell with high temperature sinter-joining process. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11878-11889.	7.1	17
59	Cathodic behavior of $\text{La}_{0.8}\text{Sr}_{0.2}\text{Co}_{1-x}\text{Mn}_x\text{O}_{3-\delta}$ perovskite oxide on YSZ electrolyte for intermediate temperature-operating solid oxide fuel cells. <i>Solid State Ionics</i> , 2008, 179, 1465-1469.	2.7	16
60	The current density and temperature distributions of anode-supported flat-tube solid oxide fuel cells affected by various channel designs. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 9936-9944.	7.1	16
61	A numerical study on the heat and mass transfer characteristics of metal-supported solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3167-3178.	7.1	16
62	A numerical study on anode thickness and channel diameter of anode-supported flat-tube solid oxide fuel cells. <i>Renewable Energy</i> , 2012, 42, 180-185.	8.9	16
63	Pressurized diesel fuel processing using hydrogen peroxide for the fuel cell power unit in low-oxygen environments. <i>Journal of Power Sources</i> , 2018, 380, 37-45.	7.8	16
64	Thermal stability characteristics of high-power, large-capacity, reserve thermal batteries with pure Li and Li(Si) anodes. <i>Electrochimica Acta</i> , 2020, 353, 136612.	5.2	16
65	Effects of low hydrocarbons on the solid oxide fuel cell anode. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1793-1800.	2.5	15
66	Effect of calcination temperature on electrochemical properties of cathodes for solid oxide fuel cells. <i>Solid State Ionics</i> , 2011, 192, 595-598.	2.7	15
67	Negative Effects of Dopants on Copper-Ceria Catalysts for CO Preferential Oxidation Under the Presence of CO <sub>2</sub> and H <sub>2</sub> O. <i>Catalysis Letters</i> , 2017, 147, 2987-3003.	2.6	15
68	Reliable sealing design of metal-based solid oxide fuel cell stacks for transportation applications. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30280-30292.	7.1	15
69	Evaluation of the net water transport through electrolytes in Proton Exchange Membrane Fuel Cell. <i>Journal of Power Sources</i> , 2009, 191, 390-399.	7.8	14
70	Scalable fabrication process of thin-film solid oxide fuel cells with an anode functional layer design and a sputtered electrolyte. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 33980-33992.	7.1	14
71	Highly active and stable catalyst with exsolved PtRu alloy nanoparticles for hydrogen production via commercial diesel reforming. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121645.	20.2	14
72	Heat flux analysis of a cylindrical steam reformer by a modified Nusselt number. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 1828-1834.	7.1	13

#	ARTICLE	IF	CITATIONS
73	Effects of infiltrated Sr and Mn doped LaCrO <sub>3</sub> on porous La <sub>0.8</sub> Sr <sub>0.2</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> scaffolds used as anodes in solid oxide fuel cells. <i>Solid State Ionics</i> , 2013, 249-250, 26-33.	2.7	13
74	Autothermal reforming of dimethyl ether with CGO-based precious metal catalysts. <i>Journal of Power Sources</i> , 2016, 307, 351-357.	7.8	13
75	Pre-reforming of higher hydrocarbons contained associated gas using a pressurized reactor with a Ni <sub>19.5</sub> -Ru <sub>0.05</sub> /CGO catalyst. <i>Chemical Engineering Science</i> , 2017, 168, 15-22.	3.8	13
76	Electrochemical properties and durability of in-situ composite cathodes with SmBa <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>2</sub> O <sub>5-<math>\delta</math></sub> for metal supported solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1212-1220.	7.1	13
77	Rapid start-up strategy of 1 kW <sub>e</sub> diesel reformer by solid oxide fuel cell integration. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 26575-26581.	7.1	13
78	Start-up strategy and operational tests of gasoline fuel processor for auxiliary power unit. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4101-4110.	7.1	12
79	Development and evaluation of a 3-cell stack of metal-based solid oxide fuel cells fabricated via a sinter-joining method for auxiliary power unit applications. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16215-16229.	7.1	11
80	Development of a PrBaMn <sub>2</sub> O <sub>5-<math>\delta</math></sub> -La <sub>0.8</sub> Sr <sub>0.2</sub> Ga <sub>0.85</sub> Mg <sub>0.15</sub> O <sub>3-<math>\delta</math></sub> composite electrode by scaffold infiltration for reversible solid oxide fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1748-1758.	7.1	11
81	Numerical Analysis of a Steam Reformer Coupled With a Combustion Burner. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	10
82	Electrochemical analysis of Pr <sub>0.3</sub> Sr <sub>0.7</sub> CoxB(1- $x$ )O <sub>3-<math>\delta</math></sub> (B=Fe, Mn; x=0, 0.3, 0.5, 0.7, and 1) as cathode materials for intermediate temperature SOFCs. <i>Solid State Ionics</i> , 2015, 272, 45-52.	2.7	10
83	Start-up strategy of a diesel reformer using the decomposition heat of hydrogen peroxide for subsea applications. <i>Journal of Power Sources</i> , 2020, 448, 227465.	7.8	10
84	Investigation of gas-phase reactions in the mixing region for hydrocarbon autothermal reforming applications. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 7545-7553.	7.1	8
85	Exhaust gas fuel reforming for hydrogen production with CGO-based precious metal catalysts. <i>Chemical Engineering Science</i> , 2017, 163, 206-214.	3.8	8
86	Numerical Analysis of the Heat and Mass Transfer Characteristics in an Autothermal Methane Reformer. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	7
87	Coupled transport and kinetics in the mixing region for hydrocarbon autothermal reforming applications. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16140-16151.	7.1	7
88	Development and Evaluation of 3-Layer Metal Supported Solid Oxide Fuel Cell Short Stack. <i>ECS Transactions</i> , 2017, 78, 2045-2050.	0.5	7
89	On-site hydrogen production using heavy naphtha by maximizing the hydrogen output of a membrane reactor system. <i>Journal of Power Sources</i> , 2021, 508, 230332.	7.8	7
90	Kinetic modeling of diesel autothermal reforming for fuel cell auxiliary power units. <i>Chemical Engineering Journal</i> , 2021, 424, 130564.	12.7	7

#	ARTICLE	IF	CITATIONS
91	Computational analysis of operating temperature, hydrogen flow rate and anode thickness in anode-supported flat-tube solid oxide fuel cells. <i>Renewable Energy</i> , 2013, 54, 63-69.	8.9	6
92	Fabrication and operation of a 6 kWe class interconnector-type anode-supported tubular solid oxide fuel cell stack. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12884-12893.	7.1	6
93	Influence of the start-up rate on the electrochemical impedance of a low-temperature solid oxide fuel cell fabricated by reactive sputtering. <i>Thin Solid Films</i> , 2019, 689, 137445.	1.8	5
94	Thermal design of a hydrogen storage system using La(Ce)Ni <sub>5</sub> . <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8742-8749.	7.1	5
95	Metal-supported Solid Oxide Fuel Cell with Diesel Reformer. <i>ECS Transactions</i> , 2009, 25, 711-718.	0.5	4
96	Fabrication of multi-layered solid oxide fuel cells using a sheet joining process. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 6861-6868.	7.1	4
97	Parallel Manifold Effects on the Heat and Mass Transfer Characteristics of Metal-Supported Solid Oxide Fuel Cell Stacks. <i>Journal of Fuel Cell Science and Technology</i> , 2011, 8, .	0.8	4
98	Three-Dimensional Numerical Analysis of Solid Oxide Electrolysis Cells Steam Electrolysis Operation for Hydrogen Production. <i>Journal of Fuel Cell Science and Technology</i> , 2015, 12, .	0.8	4
99	Effect of effective areas on ionic conductivity in dense composite material composed of ionic and electronic conductors for solid oxide fuel cells. <i>Solid State Ionics</i> , 2008, 179, 2031-2036.	2.7	3
100	Electrochemical Property of Cr-containing Cathode Materials for Metal-supported Solid Oxide Fuel Cell. <i>ECS Transactions</i> , 2009, 25, 2909-2914.	0.5	3
101	The Tests of 1 kWe Diesel Reformer and Solid Oxide Fuel Cell System. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	3
102	Numerical analysis of a 20-kW e biogas steam reformer in PEMFC applications. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19485-19493.	7.1	3
103	Fabrication of Metal-Supported Solid Oxide Fuel Cells by Sinter-Joining Method with Silver Bonding Layer. <i>ECS Transactions</i> , 2017, 78, 2039-2044.	0.5	3
104	Fuel Processor Lifetime and Reliability in Solid Oxide Fuel Cells. , 2017, , 145-171.		3
105	Application of electroless plating process for multiscale Ni-La <sub>0.8</sub> Sr <sub>0.2</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> SOFC anode fabrication. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6400-6405.	7.1	3
106	La <sub>0.8</sub> Sr <sub>0.2</sub> Co <sub>1-x</sub> Mn <sub>x</sub> O <sub>3</sub> Cathode and Its Application to Metal-Supported Solid Oxide Fuel Cells. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	2
107	Numerical Simulation of Operating Parameters in a Methane Fueled Steam Reforming Reactor. <i>Journal of Fuel Cell Science and Technology</i> , 2011, 8, .	0.8	2
108	Development of Thin-Film Solid Oxide Fuel Cells Supported on Anode/Metal Substrates. <i>ECS Transactions</i> , 2019, 91, 931-939.	0.5	2

#	ARTICLE	IF	CITATIONS
109	Design of 20 Nm <sup>3</sup> /h Class Liquid Organic Hydrogen Carrier System Integrated with Electrolyzer and Fuel Cell. ECS Transactions, 2020, 96, 149-156.	0.5	2
110	Electrochemical Investigation of LSGMC-Composite Cathodes on LSGM-Substrate. ECS Transactions, 2008, 13, 165-180.	0.5	1
111	Effect of Anode-Off Gas Recirculation at Solid Oxide Fuel Cell System. , 2008, , .		1
112	Preparatory Tests for 1kW Diesel-Powered SOFC Systems. , 2008, , .		1
113	Numerical Analysis of Heat and Mass Transfer in Metal-Supported Solid Oxide Fuel Cells. , 2010, , .		1
114	Oxygen Reduction Mechanism at Sm <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>3</sub> <sup>δ</sup> /Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> Composite Cathode for Solid Oxide Fuel Cell. , 2008, , .		0
115	The effect of time-periodic heat flux oscillations in the steam reformer. Current Applied Physics, 2010, 10, S77-S80.	2.4	0
116	Performance Analysis of Butane Direct Internal Reforming SOFC at Intermediate Temperature. , 2010, , .		0
117	3-Dimensional Numerical Analysis of Solid Oxide Electrolysis Cells (SOEC) Steam Electrolysis Operation for Hydrogen Production. , 2014, , .		0
118	Structural and electrochemical properties of interconnect integrated solid oxide fuel cell. Materials Research Bulletin, 2016, 82, 126-129.	5.2	0
119	Study on Possibility of Diesel Reforming with Hydrogen Peroxide in Low-Oxygen Environments. Korean Chemical Engineering Research, 2015, 53, 584-589.	0.2	0