Jong-Eun Hong

List of Publications by Year
in descending order

53	904	430874	501196
papers	citations	18 h-index	28 g-index

55	55	55	846
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A dynamic infiltration technique to synthesize nanolayered cathodes for high performance and robust solid oxide fuel cells. Journal of Energy Chemistry, 2022, 70, 201-210.	12.9	18
2	Parametric study on electrodeposition of a nanofibrous LaCoO3 SOFC cathode. Ceramics International, 2021, 47, 5570-5579.	4.8	11
3	Effect of transition metal doping on the sintering and electrochemical properties of GDC buffer layer in SOFCs. International Journal of Applied Ceramic Technology, 2021, 18, 511-524.	2.1	14
4	Microstructure tailoring of solid oxide electrolysis cell air electrode to boost performance and long-term durability. Chemical Engineering Journal, 2021, 410, 128318.	12.7	29
5	Development of High-Performance Anode-Supported Planar SOFC with Large Area by 4-Layer Co-Firing Process. ECS Transactions, 2021, 103, 73-81.	0.5	7
6	Enhancing Bifunctional Electrocatalytic Activities of Oxygen Electrodes via Incorporating Highly Conductive Sm³⁺ and Nd³⁺ Double-Doped Ceria for Reversible Solid Oxide Cells. ACS Applied Materials & Interfaces, 2021, 13, 2496-2506.	8.0	38
7	Ceria-Co-Cu-based SOFC anode for direct utilisation of methane or ethanol as fuels. International Journal of Hydrogen Energy, 2020, 45, 5297-5308.	7.1	42
8	Scaling up syngas production with controllable H2/CO ratio in a highly efficient, compact, and durable solid oxide coelectrolysis cell unit-bundle. Applied Energy, 2020, 257, 114036.	10.1	11
9	Effect of applied current density on the degradation behavior of anode-supported flat-tubular solid oxide fuel cells. Journal of the European Ceramic Society, 2020, 40, 1407-1417.	5.7	50
10	Influence of novel anode design on the performance and coke resistance towards methane directly-fed solid oxide fuel cells. Ceramics International, 2020, 46, 5368-5379.	4.8	7
11	Hybrid Electrochemical Deposition Route for the Facile Nanofabrication of a Cr-Poisoning-Tolerant La(Ni,Fe)O_{3â^'Î´} Cathode for Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2020, 12, 5730-5738.	8.0	22
12	Electrically Conductive Oxidation-Resistant Boron-Coated Carbon Nanotubes Derived from Atmospheric CO₂ for Use at High Temperature. ACS Applied Nano Materials, 2020, 3, 8592-8597.	5.0	10
13	The effect of aluminium addition on the high-temperature oxidation behaviour and Cr evaporation of aluminised and alumina-forming alloys for SOFC cathode air pre-heaters. Corrosion Science, 2020, 169, 108612.	6.6	9
14	Corrosion behaviour of nitrided ferritic stainless steels for use in solid oxide fuel cell devices. Corrosion Science, 2020, 165, 108414.	6.6	22
15	Facile surface modification of LSCF/GDC cathodes by epitaxial deposition of Sm_{0.5}Sr_{0.5}CoO₃via ultrasonic spray infiltration. Journal of Materials Chemistry A, 2020, 8, 3967-3977.	10.3	41
16	Ex-situ experimental benchmarking of solid oxide fuel cell metal interconnects. Journal of Power Sources, 2019, 437, 226900.	7.8	22
17	Enhancing the Sinterability of Gadolinium-Doped Ceria by Wet Chemical Processing. ECS Transactions, 2019, 91, 1201-1207.	0.5	1
18	Nickel-Free SOFC Anode for Ethanol Electrocatalysis. ECS Transactions, 2019, 91, 1673-1682.	0.5	3

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19	High Performing and Durable Anode-Supported Solid Oxide Fuel Cell by Using Tape Casting, Lamination and Co-Firing Method. ECS Transactions, 2019, 91, 373-379.	0.5	11
20	Development of Oxide Dispersed Ferritic Steel as a Solid Oxide Fuel Cell Interconnect. ECS Transactions, 2019, 91, 2307-2312.	0.5	9
21	Nano-fabrication of a high-performance LaNiO3 cathode for solid oxide fuel cells using an electrochemical route. Journal of Power Sources, 2019, 429, 97-104.	7.8	36
22	Thermally self-sustaining operation of tubular solid oxide fuel cells integrated with a hybrid partial oxidation reformer using propane. Energy Conversion and Management, 2019, 189, 132-142.	9.2	15
23	Performance characteristics of a robust and compact propane-fueled 150ÂW-class SOFC power-generation system. International Journal of Hydrogen Energy, 2019, 44, 6160-6171.	7.1	15
24	Fabrication of Nanofibrous La1-XSrxCoO3/GDC Composite Cathode Using a Combination of Chemically Assisted Electrodeposition and Infiltration Techniques for Solid Oxide Fuel Cells. ECS Meeting Abstracts, 2019, , .	0.0	0
25	CeO2Co3O4CuO anode for direct utilisation of methane or ethanol in solid oxide fuel cells. International Journal of Hydrogen Energy, 2018, 43, 6340-6351.	7.1	34
26	Production of syngas from H2O/CO2 by high-pressure coelectrolysis in tubular solid oxide cells. Applied Energy, 2018, 212, 759-770.	10.1	30
27	High-performance nanofibrous LaCoO₃ perovskite cathode for solid oxide fuel cells fabricated via chemically assisted electrodeposition. Journal of Materials Chemistry A, 2018, 6, 6987-6996.	10.3	43
28	Protective coating based on manganeseâ€“copper oxide for solid oxide fuel cell interconnects: Plasma spray coating and performance evaluation. Ceramics International, 2018, 44, 11576-11581.	4.8	44
29	Syngas production in high performing tubular solid oxide cells by using high-temperature H2O/CO2 co-electrolysis. Chemical Engineering Journal, 2018, 335, 41-51.	12.7	28
30	An electrochemical and structural study of highly uniform tin oxide nanowires fabricated by a novel, scalable solvoplasma technique as anode material for sodium ion batteries. Journal of Power Sources, 2017, 347, 201-209.	7.8	15
31	Nano-Oxide Dispersed Ferritic Stainless Steel for Metallic Interconnects of Solid Oxide Fuel Cells. ECS Transactions, 2017, 78, 1575-1582.	0.5	11
32	Effect of Alloy Composition on the Oxidation Behaviour and Cr Vaporisation of High-Cr Steels for SOFC Cathode Air Preheater. ECS Transactions, 2017, 78, 1641-1651.	0.5	1
33	Double Layered CeO2-Co3O4-CuO Based Anode for Direct Utilisation of Methane or Ethanol in SOFC. ECS Transactions, 2017, 78, 1343-1351.	0.5	1
34	Effects of La2O3 content and particle size on the long-term stability and thermal cycling property of La2O3-dispersed SUS430 alloys for SOFC interconnect materials. Metals and Materials International, 2017, 23, 1250-1256.	3.4	4
35	The effect of chemical composition on high temperature behaviour of Fe and Cu doped Mn-Co spinels. Ceramics International, 2017, 43, 2829-2835.	4.8	31
36	Cu-Mn-Co oxides as protective materials in SOFC technology: The effect of chemical composition on mechanochemical synthesis, sintering behaviour, thermal expansion and electrical conductivity. Journal of the European Ceramic Society, 2017, 37, 661-669.	5.7	40

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37	Experimental Analysis on the Electrochemical Performance of Co-Electrolysis in Solid Oxide Cells Under Pressurized Operation Conditions. ECS Meeting Abstracts, 2017, , .	0.0	0
38	Microtubular SOFC using doped LaGaO₃ electrolyte film prepared with dip coating method. Journal of the Ceramic Society of Japan, 2015, 123, 182-186.	1.1	4
39	Accurate and Precise Measurement of Oxygen Isotopic Fractions and Diffusion Profiles by Selective Attenuation of Secondary Ions (SASI). Analytical Chemistry, 2015, 87, 2907-2915.	6.5	11
40	Properties of Spinel Protective Coatings Prepared Using Wet Powder Spraying for SOFC Interconnects. ECS Transactions, 2015, 68, 1581-1587.	0.5	5
41	Effects of Three-Dimensional Strain on Electric Conductivity in Au-Dispersed Pr_{1.90}Ni_{0.71}Cu_{0.24}Ga_{0.05}O_{4+Î´}. Journal of Physical Chemistry C, 2015, 119, 5-13.	3.1	14
42	Decreased sintering temperature of anode-supported solid oxide fuel cells with La-doped CeO2 and Sr- and Mg-doped LaGaO3 films by Co addition. Journal of Power Sources, 2014, 259, 282-288.	7.8	16
43	Increased Power Density of Solid Oxide Fuel Cells Using LaGaO3Film Prepared by Screen Printing Method with (Ba,La)CoO3-Î´and Pr1.9(Ni,Cu,Ga)O4+Î´Composite Oxide Cathode. Journal of the Electrochemical Society, 2014, 161, F1118-F1123.	2.9	0
44	Effects of transition metal addition on sintering and electrical conductivity of La-doped CeO2 as buffer layer for doped LaGaO3 electrolyte film. Solid State Ionics, 2014, 262, 374-377.	2.7	11
45	(La,Ba)CoO3 and Pr1.9(Ni,Cu,Ga)O4 Composite Oxide as Active Cathode for Intermediate Temperature Solid Oxide Fuel Cells Using Doped LaGaO3 Electrolyte Films. ECS Transactions, 2013, 57, 1793-1799.	0.5	0
46	Ce(Mn,Fe)O₂as An Effective Interlayer for Intermediate Temperature SOFCs Using Doped LaGaO₃Films Prepared by Screen Printing Method. Journal of the Electrochemical Society, 2013, 160, F375-F380.	2.9	12
47	Niâ€“Fe bimetallic cathodes for intermediate temperature CO2 electrolyzers using a La0.9Sr0.1Ga0.8Mg0.2O3 electrolyte. Journal of Materials Chemistry A, 2013, 1, 12455.	10.3	46
48	New buffer layer material La(Pr)CrO3for intermediate temperature solid oxide fuel cell using LaGaO3-based electrolyte film. Journal of Materials Research, 2012, 27, 1906-1914.	2.6	6
49	Titaniaâ€Added <scp><scp>Ce</scp></scp>_{0.6}<scp><scp>La</scp></scp>_{0.4}<scp><scp>O</scp></scp>_{2â^Î´} for the Buffer Layer of Highâ€Performance Solid Oxide Fuel Cells Using Doped Lanthanum Gallate Electrolyte Film. Journal of the American Ceramic Society, 2012, 95, 3588-3596.	3.8	13
50	Preparation of LaGaO3 thin film for intermediate temperature SOFC by screen printing method (I). Ionics, 2012, 18, 433-439.	2.4	8
51	Improved sintering and electrical properties of La-doped CeO2 buffer layer for intermediate temperature solid oxide fuel cells using doped LaGaO3 film prepared by screen printing process. Journal of Solid State Electrochemistry, 2012, 16, 1493-1502.	2.5	12
52	Improved power generation performance of solid oxide fuel cells using doped LaGaO3 electrolyte films prepared by screen printing method II. Optimization of Niâ€“Ce0.8Sm0.2O1.9 cermet anode support. International Journal of Hydrogen Energy, 2011, 36, 14632-14642.	7.1	19
53	Characteristics of a Protective Coating on Metal Interconnect for SOFCs. ECS Transactions, 2009, 25, 1393-1396.	0.5	2