

Jong-Eun Hong

List of Publications by Year in descending order

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papers

904
citations

430874

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55
all docs

55
docs citations

55
times ranked

846
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of applied current density on the degradation behavior of anode-supported flat-tubular solid oxide fuel cells. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1407-1417.	5.7	50
2	Ni-Fe bimetallic cathodes for intermediate temperature CO ₂ electrolyzers using a La _{0.9} Sr _{0.1} Ga _{0.8} Mg _{0.2} O ₃ electrolyte. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12455.	10.3	46
3	Protective coating based on manganese-copper oxide for solid oxide fuel cell interconnects: Plasma spray coating and performance evaluation. <i>Ceramics International</i> , 2018, 44, 11576-11581.	4.8	44
4	High-performance nanofibrous LaCoO ₃ perovskite cathode for solid oxide fuel cells fabricated via chemically assisted electrodeposition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6987-6996.	10.3	43
5	Ceria-Co-Cu-based SOFC anode for direct utilisation of methane or ethanol as fuels. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5297-5308.	7.1	42
6	Facile surface modification of LSCF/GDC cathodes by epitaxial deposition of Sm _{0.5} Sr _{0.5} CoO ₃ via ultrasonic spray infiltration. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3967-3977.	10.3	41
7	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. <i>Journal of the European Ceramic Society</i> , 2017, 37, 661-669.	5.7	40
8	Enhancing Bifunctional Electrocatalytic Activities of Oxygen Electrodes via Incorporating Highly Conductive Sm ³⁺ and Nd ³⁺ Double-Doped Ceria for Reversible Solid Oxide Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2496-2506.	8.0	38
9	Nano-fabrication of a high-performance LaNiO ₃ cathode for solid oxide fuel cells using an electrochemical route. <i>Journal of Power Sources</i> , 2019, 429, 97-104.	7.8	36
10	CeO ₂ Co ₃ O ₄ CuO anode for direct utilisation of methane or ethanol in solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6340-6351.	7.1	34
11	The effect of chemical composition on high temperature behaviour of Fe and Cu doped Mn-Co spinels. <i>Ceramics International</i> , 2017, 43, 2829-2835.	4.8	31
12	Production of syngas from H ₂ O/CO ₂ by high-pressure coelectrolysis in tubular solid oxide cells. <i>Applied Energy</i> , 2018, 212, 759-770.	10.1	30
13	Microstructure tailoring of solid oxide electrolysis cell air electrode to boost performance and long-term durability. <i>Chemical Engineering Journal</i> , 2021, 410, 128318.	12.7	29
14	Syngas production in high performing tubular solid oxide cells by using high-temperature H ₂ O/CO ₂ co-electrolysis. <i>Chemical Engineering Journal</i> , 2018, 335, 41-51.	12.7	28
15	Ex-situ experimental benchmarking of solid oxide fuel cell metal interconnects. <i>Journal of Power Sources</i> , 2019, 437, 226900.	7.8	22
16	Hybrid Electrochemical Deposition Route for the Facile Nanofabrication of a Cr-Poisoning-Tolerant La(Ni,Fe)O ₃ Cathode for Solid Oxide Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5730-5738.	8.0	22
17	Corrosion behaviour of nitrated ferritic stainless steels for use in solid oxide fuel cell devices. <i>Corrosion Science</i> , 2020, 165, 108414.	6.6	22
18	Improved power generation performance of solid oxide fuel cells using doped LaGaO ₃ electrolyte films prepared by screen printing method II. Optimization of Ni-Ce _{0.8} Sm _{0.2} O _{1.9} cermet anode support. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14632-14642.	7.1	19

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19	A dynamic infiltration technique to synthesize nanolayered cathodes for high performance and robust solid oxide fuel cells. <i>Journal of Energy Chemistry</i> , 2022, 70, 201-210.	12.9	18
20	Decreased sintering temperature of anode-supported solid oxide fuel cells with La-doped CeO ₂ and Sr- and Mg-doped LaGaO ₃ films by Co addition. <i>Journal of Power Sources</i> , 2014, 259, 282-288.	7.8	16
21	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. <i>Journal of Power Sources</i> , 2017, 347, 201-209.	7.8	15
22	Thermally self-sustaining operation of tubular solid oxide fuel cells integrated with a hybrid partial oxidation reformer using propane. <i>Energy Conversion and Management</i> , 2019, 189, 132-142.	9.2	15
23	Performance characteristics of a robust and compact propane-fueled 150W-class SOFC power-generation system. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6160-6171.	7.1	15
24	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+δ} . <i>Journal of Physical Chemistry C</i> , 2015, 119, 5-13.	3.1	14
25	Effect of transition metal doping on the sintering and electrochemical properties of GDC buffer layer in SOFCs. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 511-524.	2.1	14
26	Titania-Added Ce _{0.6} La _{0.4} O _{2-δ} for the Buffer Layer of High-Performance Solid Oxide Fuel Cells Using Doped Lanthanum Gallate Electrolyte Film. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3588-3596.	3.8	13
27	Improved sintering and electrical properties of La-doped CeO ₂ buffer layer for intermediate temperature solid oxide fuel cells using doped LaGaO ₃ film prepared by screen printing process. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1493-1502.	2.5	12
28	Ce(Mn,Fe)O ₂ as An Effective Interlayer for Intermediate Temperature SOFCs Using Doped LaGaO ₃ Films Prepared by Screen Printing Method. <i>Journal of the Electrochemical Society</i> , 2013, 160, F375-F380.	2.9	12
29	Effects of transition metal addition on sintering and electrical conductivity of La-doped CeO ₂ as buffer layer for doped LaGaO ₃ electrolyte film. <i>Solid State Ionics</i> , 2014, 262, 374-377.	2.7	11
30	Accurate and Precise Measurement of Oxygen Isotopic Fractions and Diffusion Profiles by Selective Attenuation of Secondary Ions (SASI). <i>Analytical Chemistry</i> , 2015, 87, 2907-2915.	6.5	11
31	Nano-Oxide Dispersed Ferritic Stainless Steel for Metallic Interconnects of Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2017, 78, 1575-1582.	0.5	11
32	High Performing and Durable Anode-Supported Solid Oxide Fuel Cell by Using Tape Casting, Lamination and Co-Firing Method. <i>ECS Transactions</i> , 2019, 91, 373-379.	0.5	11
33	Scaling up syngas production with controllable H ₂ /CO ratio in a highly efficient, compact, and durable solid oxide coelectrolysis cell unit-bundle. <i>Applied Energy</i> , 2020, 257, 114036.	10.1	11
34	Parametric study on electrodeposition of a nanofibrous LaCoO ₃ SOFC cathode. <i>Ceramics International</i> , 2021, 47, 5570-5579.	4.8	11
35	Electrically Conductive Oxidation-Resistant Boron-Coated Carbon Nanotubes Derived from Atmospheric CO ₂ for Use at High Temperature. <i>ACS Applied Nano Materials</i> , 2020, 3, 8592-8597.	5.0	10
36	Development of Oxide Dispersed Ferritic Steel as a Solid Oxide Fuel Cell Interconnect. <i>ECS Transactions</i> , 2019, 91, 2307-2312.	0.5	9

#	ARTICLE	IF	CITATIONS
37	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
38	Preparation of LaGaO ₃ thin film for intermediate temperature SOFC by screen printing method (I). Ionics, 2012, 18, 433-439.	2.4	8
39	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
40	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
41	New buffer layer material La(Pr)CrO ₃ for intermediate temperature solid oxide fuel cell using LaGaO ₃ -based electrolyte film. Journal of Materials Research, 2012, 27, 1906-1914.	2.6	6
42	Properties of Spinel Protective Coatings Prepared Using Wet Powder Spraying for SOFC Interconnects. ECS Transactions, 2015, 68, 1581-1587.	0.5	5
43	Microtubular SOFC using doped LaGaO ₃ electrolyte film prepared with dip coating method. Journal of the Ceramic Society of Japan, 2015, 123, 182-186.	1.1	4
44	Effects of La ₂ O ₃ content and particle size on the long-term stability and thermal cycling property of La ₂ O ₃ -dispersed SUS430 alloys for SOFC interconnect materials. Metals and Materials International, 2017, 23, 1250-1256.	3.4	4
45	Nickel-Free SOFC Anode for Ethanol Electrocatalysis. ECS Transactions, 2019, 91, 1673-1682.	0.5	3
46	Characteristics of a Protective Coating on Metal Interconnect for SOFCs. ECS Transactions, 2009, 25, 1393-1396.	0.5	2
47	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
48	Double Layered CeO ₂ -Co ₃ O ₄ -CuO Based Anode for Direct Utilisation of Methane or Ethanol in SOFC. ECS Transactions, 2017, 78, 1343-1351.	0.5	1
49	Enhancing the Sinterability of Gadolinium-Doped Ceria by Wet Chemical Processing. ECS Transactions, 2019, 91, 1201-1207.	0.5	1
50	(La,Ba)CoO ₃ and Pr _{1.9} (Ni,Cu,Ga)O ₄ Composite Oxide as Active Cathode for Intermediate Temperature Solid Oxide Fuel Cells Using Doped LaGaO ₃ Electrolyte Films. ECS Transactions, 2013, 57, 1793-1799.	0.5	0
51	Increased Power Density of Solid Oxide Fuel Cells Using LaGaO ₃ Film Prepared by Screen Printing Method with (Ba,La)CoO ₃ and Pr _{1.9} (Ni,Cu,Ga)O ₄ Composite Oxide Cathode. Journal of the Electrochemical Society, 2014, 161, F1118-F1123.	2.9	0
52	Experimental Analysis on the Electrochemical Performance of Co-Electrolysis in Solid Oxide Cells Under Pressurized Operation Conditions. ECS Meeting Abstracts, 2017, , .	0.0	0
53	Fabrication of Nanofibrous La _{1-x} Sr _x CoO ₃ /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