

Mingfei Liu

List of Publications by Year in descending order

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65
papers

4,149
citations

147801
31
h-index

110387
64
g-index

66
all docs

66
docs citations

66
times ranked

2784
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the Impact of Sulfur Poisoning on the Methane-Reforming Activity of a Solid Oxide Fuel Cell Anode. ACS Catalysis, 2021, 11, 13556-13566.	11.2	15
2	A high-performance solid oxide fuel cell with a layered electrolyte for reduced temperatures. Journal of the American Ceramic Society, 2020, 103, 5325-5336.	3.8	6
3	Electrochemical properties of micro-tubular intermediate temperature solid oxide fuel cell with novel asymmetric structure based on BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O _{3-δ} proton conducting electrolyte. International Journal of Hydrogen Energy, 2019, 44, 16887-16897.	7.1	29
4	High performance of anode supported BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O _{3-δ} proton-conducting electrolyte micro-tubular cells with asymmetric structure for IT-SOFCs. Journal of Electroanalytical Chemistry, 2019, 844, 49-57.	3.8	17
5	Multilayer tape casting of large-scale anode-supported thin-film electrolyte solid oxide fuel cells. International Journal of Hydrogen Energy, 2019, 44, 16976-16982.	7.1	32
6	Impedance Spectroscopy Study of an SDC-based SOFC with High Open Circuit Voltage. Electrochimica Acta, 2015, 177, 227-236.	5.2	27
7	In Situ Probing of the Mechanisms of Coking Resistance on Catalyst-Modified Anodes for Solid Oxide Fuel Cells. Chemistry of Materials, 2015, 27, 822-828.	6.7	54
8	Microarchitected solid oxide fuel cells with improved energy efficiency (Part II): Fabrication and characterization. Journal of Power Sources, 2015, 293, 883-891.	7.8	4
9	An operando surface enhanced Raman spectroscopy (SERS) study of carbon deposition on SOFC anodes. Physical Chemistry Chemical Physics, 2015, 17, 21112-21119.	2.8	34
10	Electrostatic Force Microscopic Characterization of Early Stage Carbon Deposition on Nickel Anodes in Solid Oxide Fuel Cells. Nano Letters, 2015, 15, 6047-6050.	9.1	10
11	Understanding the phase formation and compositions of barium carbonate modified NiO-ytria stabilized zirconia for fuel cell applications. International Journal of Hydrogen Energy, 2015, 40, 15597-15604.	7.1	7
12	Operando and In-situ X-ray Spectroscopies of Degradation in La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} Thin Film Cathodes in Fuel Cells. ChemSusChem, 2014, 7, 3078-3087.	6.8	30
13	Enhancing Sulfur Tolerance of a Ni-YSZ Anode through BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O _{3-δ} Infiltration. Journal of the Electrochemical Society, 2014, 161, F668-F673.	2.9	29
14	An Easily Sintered, Chemically Stable, Barium Zirconate-Based Proton Conductor for High-Performance Proton-Conducting Solid Oxide Fuel Cells. Advanced Functional Materials, 2014, 24, 5695-5702.	14.9	81
15	Three-Dimensional Microstructural Imaging of Sulfur Poisoning-Induced Degradation in a Ni-YSZ Anode of Solid Oxide Fuel Cells. Scientific Reports, 2014, 4, 5246.	3.3	33
16	High-performance Ni-BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O _{3-δ} (BZCYYb) membranes for hydrogen separation. International Journal of Hydrogen Energy, 2013, 38, 14743-14749.	7.1	48
17	A mixed-conducting BaPr _{0.8} In _{0.2} O _{3-δ} cathode for proton-conducting solid oxide fuel cells. Electrochemistry Communications, 2013, 27, 19-21.	4.7	36
18	LSM-infiltrated LSCF cathodes for solid oxide fuel cells. Journal of Energy Chemistry, 2013, 22, 555-559.	12.9	59

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19	Highly active Sm _{0.2} Ce _{0.8} O _{1.9} powders of very low apparent density derived from mixed cerium sources. Journal of Power Sources, 2013, 229, 277-284.	7.8	14
20	Fabrication and characterization of functionally-graded LSCF cathodes by tape casting. International Journal of Hydrogen Energy, 2013, 38, 1082-1087.	7.1	37
21	Fabrication and modification of solid oxide fuel cell anodes via wet impregnation/infiltration technique. Journal of Power Sources, 2013, 237, 243-259.	7.8	140
22	Chemically Stable Yttrium and Tin Co-doped Barium Zirconate Electrolyte for Next Generation High Performance Proton-Conducting Solid Oxide Fuel Cells. Advanced Energy Materials, 2013, 3, 1041-1050.	19.5	140
23	Hydrogen oxidation at the Pt-BaZr _{0.1} Ce _{0.7} Y _{0.1} O _{3-δ} (BZCYb) interface. Physical Chemistry Chemical Physics, 2013, 15, 3820.	2.8	6
24	High-performance, ceria-based solid oxide fuel cells fabricated at low temperatures. Journal of Power Sources, 2013, 241, 454-459.	7.8	41
25	Efficient Electro-Catalysts for Enhancing Surface Activity and Stability of SOFC Cathodes. Advanced Energy Materials, 2013, 3, 1149-1154.	19.5	144
26	Enhanced density of sol-gel derived La _{0.8} Sr _{0.2} MnO ₃ thin film with an electric field assisted deposition. Materials Letters, 2013, 92, 192-194.	2.6	2
27	An Efficient SOFC Based on Samaria-Doped Ceria (SDC) Electrolyte. Journal of the Electrochemical Society, 2012, 159, B661-B665.	2.9	76
28	Solid Oxide Fuel Cells. , 2012, , 7-36.		18
29	Probing and Mapping Electrode Surfaces in Solid Oxide Fuel Cells. Journal of Visualized Experiments, 2012, , e50161.	0.3	2
30	A more efficient anode microstructure for SOFCs based on proton conductors. International Journal of Hydrogen Energy, 2012, 37, 18342-18348.	7.1	61
31	Application of surface enhanced Raman spectroscopy to the study of SOFC electrode surfaces. Physical Chemistry Chemical Physics, 2012, 14, 5919.	2.8	38
32	Raman spectroscopic monitoring of carbon deposition on hydrocarbon-fed solid oxide fuel cell anodes. Energy and Environmental Science, 2012, 5, 7913.	30.8	105
33	Direct octane fuel cells: A promising power for transportation. Nano Energy, 2012, 1, 448-455.	16.0	118
34	Enhanced performance of LSCF cathode through surface modification. International Journal of Hydrogen Energy, 2012, 37, 8613-8620.	7.1	161
35	Electrical and electrocatalytic properties of a La _{0.8} Sr _{0.2} Co _{0.17} Mn _{0.83} O _{3-δ} cathode for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2012, 205, 80-85.	7.8	22
36	Promotion of water-mediated carbon removal by nanostructured barium oxide/nickel interfaces in solid oxide fuel cells. Nature Communications, 2011, 2, 357.	12.8	280

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37	Enhancement of $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ durability and surface electrocatalytic activity by $\text{La}_{0.85}\text{Sr}_{0.15}\text{MnO}_{3\pm\delta}$ investigated using a new test electrode platform. <i>Energy and Environmental Science</i> , 2011, 4, 2249.	30.8	176
38	Preparation and Characterization of $(\text{La}_{0.8}\text{Sr}_{0.2})_{0.95}\text{MnO}_{3\delta}$ ($\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_{3\delta}$) Thin Films and $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_{3\delta}/\text{LSM}$ Interface for Solid Oxide Fuel Cells. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3340-3345.	3.8	29
39	Enhanced sinterability of $\text{BaZr}_{0.1}\text{Ce}_{0.7}\text{Y}_{0.1}\text{O}_{3\delta}$ by addition of nickel oxide. <i>Journal of Power Sources</i> , 2011, 196, 9980-9984.	7.8	73
40	High performance of anode supported $\text{BaZr}_{0.1}\text{Ce}_{0.7}\text{Y}_{0.2}\text{O}_{3\delta}$ (BZCY) electrolyte cell for IT-SOFC. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13741-13745.	7.1	52
41	Anode-supported tubular SOFCs based on $\text{BaZr}_{0.1}\text{Ce}_{0.7}\text{Y}_{0.1}\text{O}_{3\delta}$ electrolyte fabricated by dip coating. <i>Electrochemistry Communications</i> , 2011, 13, 615-618.	4.7	39
42	Anode-supported micro-tubular SOFCs fabricated by a phase-inversion and dip-coating process. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5604-5610.	7.1	50
43	$\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3\delta}$ cathodes infiltrated with samarium-doped cerium oxide for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 4704-4708.	7.8	173
44	Comparative study on the performance of tubular and button cells with YSZ membrane fabricated by a refined particle suspension coating technique. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10489-10494.	7.1	23
45	Enhanced Performance of $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ (LSCF) Cathodes with Graded Microstructure Fabricated by Tape Casting. <i>Journal of Electrochemical Science and Technology</i> , 2010, 1, 50-56.	2.2	18
46	$\text{SrCo}_{0.9}\text{Sb}_{0.1}\text{O}_{3\delta}$ cubic perovskite as a novel cathode for intermediate-to-low temperature SOFCs. <i>Fuel Cells Bulletin</i> , 2009, 2009, 12-15.	0.1	3
47	$\text{SrCo}_{0.9}\text{Sb}_{0.1}\text{O}_{3\delta}$ cubic perovskite as a novel cathode for intermediate-to-low temperature solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2009, 472, 556-558.	5.5	30
48	Effect of impregnation of Sm-doped CeO_2 in NiO/YSZ anode substrate prepared by gelcasting for tubular solid oxide fuel cell. <i>Journal of Alloys and Compounds</i> , 2009, 482, 168-172.	5.5	36
49	Enhanced Sulfur and Coking Tolerance of a Mixed Ion Conductor for SOFCs: $\text{BaZr}_{0.1}\text{Ce}_{0.7}\text{Y}_{0.2}\text{O}_{3\delta}$ ($\text{BaZr}_{0.1}\text{Ce}_{0.7}\text{Y}_{0.2}\text{O}_{3\delta}$). <i>Science</i> , 2009, 326, 126-129.	12.6	954
50	Comparative study on the performance of tubular solid oxide fuel cells with various $\text{Pr}_{0.35}\text{Nd}_{0.35}\text{Sr}_{0.3}\text{MnO}_3/\text{YSZ}$ cathode layers made by different processes. <i>Journal of Power Sources</i> , 2008, 175, 272-275.	7.8	14
51	Improvement of cathode/electrolyte interfaces of tubular solid oxide fuel cells by fabricating dense YSZ electrolyte membranes with indented surfaces. <i>Journal of Power Sources</i> , 2008, 175, 201-205.	7.8	15
52	Preparation of $\text{Pr}_{0.35}\text{Nd}_{0.35}\text{Sr}_{0.3}\text{MnO}_{3\delta}/\text{YSZ}$ composite cathode powders for tubular solid oxide fuel cells by microwave-induced monomer gelation and gel combustion synthesis process. <i>Journal of Power Sources</i> , 2008, 175, 436-440.	7.8	9
53	Synthesis and electrochemical properties of $(\text{Pr}_{1-x}\text{Nd}_x)\text{MnO}_{3\delta}$ and $(\text{Pr}_{1-x}\text{Nd}_x)\text{O}_{0.7}\text{Sr}_{0.3}\text{MnO}_{3\delta}$ as cathode materials for IT-SOFC. <i>Journal of Power Sources</i> , 2008, 176, 107-111.	7.8	19
54	YSZ-based SOFC with modified electrode/electrolyte interfaces for operating at temperature lower than 650°C . <i>Journal of Power Sources</i> , 2008, 180, 215-220.	7.8	58

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55	Novel nano-network cathodes for solid oxide fuel cells. Journal of Power Sources, 2008, 185, 13-18.	7.8	80
56	High sintering ability and electrical conductivity of Zn doped La(Ca)CrO ₃ based interconnect ceramics for SOFCs. Journal of Power Sources, 2008, 177, 451-456.	7.8	18
57	High-performance cathode-supported SOFCs prepared by a single-step co-firing process. Journal of Power Sources, 2008, 182, 585-588.	7.8	55
58	Direct liquid methanol-fueled solid oxide fuel cell. Journal of Power Sources, 2008, 185, 188-192.	7.8	115
59	Influence of Cr deficiency on sintering character and properties of SOFC interconnect material La _{0.7} Ca _{0.3} Cr _{1-x} O ₃ . Materials Research Bulletin, 2008, 43, 2607-2616.	5.2	19
60	Fabrication and characterization of Y ₂ O ₃ stabilized ZrO ₂ films deposited with aerosol-assisted MOCVD. Solid State Ionics, 2007, 177, 3405-3410.	2.7	30
61	Improvement of the performances of tubular solid oxide fuel cells by optimizing co-sintering temperature of the NiO/YSZ anode-YSZ electrolyte double layers. Journal of Power Sources, 2007, 171, 495-498.	7.8	22
62	Synthesis of LaCrO ₃ films using spray pyrolysis technique. Materials Letters, 2007, 61, 1908-1911.	2.6	16
63	Thin yttria-stabilized zirconia electrolyte and transition layers fabricated by particle suspension spray. Journal of Power Sources, 2007, 164, 567-571.	7.8	31
64	Decomposition Behavior of M(DPM) _n (DPM = 2,2,6,6-Tetramethyl-3,5-heptanedionato; n = 2, 3, 4). Journal of Physical Chemistry A, 2006, 110, 13479-13486.	2.5	26
65	Synthesis and thermal properties of polystyrene/montmorillonite nanocomposites by γ -ray radiation polymerization. Journal of Applied Polymer Science, 2003, 90, 1692-1696.	2.6	7