

Mingfei Liu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Enhanced Sulfur and Coking Tolerance of a Mixed Ion Conductor for SOFCs: BaZr _{0.1} Ce _{0.7} Y _{0.2} O _{3-δ} . Science, 2009, 326, 126-129.	6.0	954
2	Promotion of water-mediated carbon removal by nanostructured barium oxide/nickel interfaces in solid oxide fuel cells. Nature Communications, 2011, 2, 357.	5.8	280
3	Enhancement of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} durability and surface electrocatalytic activity by La _{0.85} Sr _{0.15} MnO _{3±f} investigated using a new test electrode platform. Energy and Environmental Science, 2011, 4, 2249.	15.6	176
4	La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} cathodes infiltrated with samarium-doped cerium oxide for solid oxide fuel cells. Journal of Power Sources, 2010, 195, 4704-4708.	4.0	173
5	Enhanced performance of LSCF cathode through surface modification. International Journal of Hydrogen Energy, 2012, 37, 8613-8620.	3.8	161
6	Efficient ElectroCatalysts for Enhancing Surface Activity and Stability of SOFC Cathodes. Advanced Energy Materials, 2013, 3, 1149-1154.	10.2	144
7	Fabrication and modification of solid oxide fuel cell anodes via wet impregnation/infiltration technique. Journal of Power Sources, 2013, 237, 243-259.	4.0	140
8	Chemically Stable Yttrium and Tin CoDoped Barium Zirconate Electrolyte for Next Generation High Performance ProtonConducting Solid Oxide Fuel Cells. Advanced Energy Materials, 2013, 3, 1041-1050.	10.2	140
9	Direct octane fuel cells: A promising power for transportation. Nano Energy, 2012, 1, 448-455.	8.2	118
10	Direct liquid methanol-fueled solid oxide fuel cell. Journal of Power Sources, 2008, 185, 188-192.	4.0	115
11	Raman spectroscopic monitoring of carbon deposition on hydrocarbon-fed solid oxide fuel cell anodes. Energy and Environmental Science, 2012, 5, 7913.	15.6	105
12	An Easily Sintered, Chemically Stable, Barium ZirconateBased Proton Conductor for HighPerformance ProtonConducting Solid Oxide Fuel Cells. Advanced Functional Materials, 2014, 24, 5695-5702.	7.8	81
13	Novel nano-network cathodes for solid oxide fuel cells. Journal of Power Sources, 2008, 185, 13-18.	4.0	80
14	An Efficient SOFC Based on Samaria-Doped Ceria (SDC) Electrolyte. Journal of the Electrochemical Society, 2012, 159, B661-B665.	1.3	76
15	Enhanced sinterability of BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O _{3-δ} by addition of nickel oxide. Journal of Power Sources, 2011, 196, 9980-9984.	4.0	73
16	A more efficient anode microstructure for SOFCs based on proton conductors. International Journal of Hydrogen Energy, 2012, 37, 18342-18348.	3.8	61
17	LSM-infiltrated LSCF cathodes for solid oxide fuel cells. Journal of Energy Chemistry, 2013, 22, 555-559.	7.1	59
18	YSZ-based SOFC with modified electrode/electrolyte interfaces for operating at temperature lower than 650°C. Journal of Power Sources, 2008, 180, 215-220.	4.0	58

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19	High-performance cathode-supported SOFCs prepared by a single-step co-firing process. <i>Journal of Power Sources</i> , 2008, 182, 585-588.	4.0	55
20	In Situ Probing of the Mechanisms of Coking Resistance on Catalyst-Modified Anodes for Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2015, 27, 822-828.	3.2	54
21	High performance of anode supported BaZr _{0.1} Ce _{0.7} Y _{0.2} O ₃ (BZCY) electrolyte cell for IT-SOFC. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13741-13745.	3.8	52
22	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.	3.8	50
23	High-performance Ni-BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ (BZCYYb) membranes for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 14743-14749.	3.8	48
24	High-performance, ceria-based solid oxide fuel cells fabricated at low temperatures. <i>Journal of Power Sources</i> , 2013, 241, 454-459.	4.0	41
25	Anode-supported tubular SOFCs based on BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ electrolyte fabricated by dip coating. <i>Electrochemistry Communications</i> , 2011, 13, 615-618.	2.3	39
26	Application of surface enhanced Raman spectroscopy to the study of SOFC electrode surfaces. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5919.	1.3	38
27	Fabrication and characterization of functionally-graded LSCF cathodes by tape casting. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1082-1087.	3.8	37
28	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.	2.8	36
29	A mixed-conducting BaPr _{0.8} In _{0.2} O ₃ cathode for proton-conducting solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2013, 27, 19-21.	2.3	36
30	An operando surface enhanced Raman spectroscopy (SERS) study of carbon deposition on SOFC anodes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21112-21119.	1.3	34
31	Three-Dimensional Microstructural Imaging of Sulfur Poisoning-Induced Degradation in a Ni-YSZ Anode of Solid Oxide Fuel Cells. <i>Scientific Reports</i> , 2014, 4, 5246.	1.6	33
32	Multilayer tape casting of large-scale anode-supported thin-film electrolyte solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16976-16982.	3.8	32
33	Thin yttria-stabilized zirconia electrolyte and transition layers fabricated by particle suspension spray. <i>Journal of Power Sources</i> , 2007, 164, 567-571.	4.0	31
34	Fabrication and characterization of Y ₂ O ₃ stabilized ZrO ₂ films deposited with aerosol-assisted MOCVD. <i>Solid State Ionics</i> , 2007, 177, 3405-3410.	1.3	30
35	SrCo _{0.9} Sb _{0.1} O ₃ 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.	2.8	30
36	Operando and In-situ X-ray Spectroscopies of Degradation in La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ Thin Film Cathodes in Fuel Cells. <i>ChemSusChem</i> , 2014, 7, 3078-3087.	3.6	30

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37	Preparation and Characterization of $(\text{La}_{0.8}\text{Sr}_{0.2})_{0.95}\text{MnO}_3$ (LSM) Thin Films and LSM/LSCF Interface for Solid Oxide Fuel Cells. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3340-3345.	1.9	29
38	Enhancing Sulfur Tolerance of a Ni-YSZ Anode through $\text{BaZr}_{0.1}\text{Ce}_{0.7}\text{Y}_{0.1}\text{Yb}_{0.1}\text{O}_{3-\delta}$ Infiltration. <i>Journal of the Electrochemical Society</i> , 2014, 161, F668-F673.	1.3	29
39	Electrochemical properties of micro-tubular intermediate temperature solid oxide fuel cell with novel asymmetric structure based on $\text{BaZr}_{0.1}\text{Ce}_{0.7}\text{Y}_{0.1}\text{Yb}_{0.1}\text{O}_{3-\delta}$ proton conducting electrolyte. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16887-16897.	3.8	29
40	Impedance Spectroscopy Study of an SDC-based SOFC with High Open Circuit Voltage. <i>Electrochimica Acta</i> , 2015, 177, 227-236.	2.6	27
41	Decomposition Behavior of $\text{M}(\text{DPM})_n$ (DPM = 2,2,6,6-Tetramethyl-3,5-heptanedionato; $n = 2, 3, 4$). <i>Journal of Physical Chemistry A</i> , 2006, 110, 13479-13486.	1.1	26
42	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.	3.8	23
43	Improvement of the performances of tubular solid oxide fuel cells by optimizing co-sintering temperature of the NiO/YSZ anode-YSZ electrolyte double layers. <i>Journal of Power Sources</i> , 2007, 171, 495-498.	4.0	22
44	Electrical and electrocatalytic properties of a $\text{La}_{0.8}\text{Sr}_{0.2}\text{Co}_{0.17}\text{Mn}_{0.83}\text{O}_{3-\delta}$ cathode for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2012, 205, 80-85.	4.0	22
45	Synthesis and electrochemical properties of $(\text{Pr}_{1-x}\text{Nd}_x)\text{MnO}_3$ and $(\text{Pr}_{1-x}\text{Nd}_x)\text{O}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ as cathode materials for IT-SOFC. <i>Journal of Power Sources</i> , 2008, 176, 107-111.	4.0	19
46	Influence of Cr deficiency on sintering character and properties of SOFC interconnect material $\text{La}_{0.7}\text{Ca}_{0.3}\text{Cr}_x\text{O}_{3-\delta}$. <i>Materials Research Bulletin</i> , 2008, 43, 2607-2616.	2.7	19
47	High sintering ability and electrical conductivity of Zn doped $\text{La}(\text{Ca})\text{CrO}_3$ based interconnect ceramics for SOFCs. <i>Journal of Power Sources</i> , 2008, 177, 451-456.	4.0	18
48	Solid Oxide Fuel Cells. , 2012, , 7-36.		18
49	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.	0.9	18
50	High performance of anode supported $\text{BaZr}_{0.1}\text{Ce}_{0.7}\text{Y}_{0.1}\text{Yb}_{0.1}\text{O}_{3-\delta}$ proton-conducting electrolyte micro-tubular cells with asymmetric structure for IT-SOFCs. <i>Journal of Electroanalytical Chemistry</i> , 2019, 844, 49-57.	1.9	17
51	Synthesis of LaCrO_3 films using spray pyrolysis technique. <i>Materials Letters</i> , 2007, 61, 1908-1911.	1.3	16
52	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.	4.0	15
53	Understanding the Impact of Sulfur Poisoning on the Methane-Reforming Activity of a Solid Oxide Fuel Cell Anode. <i>ACS Catalysis</i> , 2021, 11, 13556-13566.	5.5	15
54	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.	4.0	14

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55	Highly active Sm _{0.2} Ce _{0.8} O _{1.9} powders of very low apparent density derived from mixed cerium sources. <i>Journal of Power Sources</i> , 2013, 229, 277-284.	4.0	14
56	Electrostatic Force Microscopic Characterization of Early Stage Carbon Deposition on Nickel Anodes in Solid Oxide Fuel Cells. <i>Nano Letters</i> , 2015, 15, 6047-6050.	4.5	10
57	Preparation of Pr _{0.35} Nd _{0.35} Sr _{0.3} MnO ₃ /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.	4.0	9
58	Synthesis and thermal properties of polystyrene/montmorillonite nanocomposites by γ -ray radiation polymerization. <i>Journal of Applied Polymer Science</i> , 2003, 90, 1692-1696.	1.3	7
59	Understanding the phase formation and compositions of barium carbonate modified NiO-yttria stabilized zirconia for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 15597-15604.	3.8	7
60	Hydrogen oxidation at the Pt/BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ (BZCYYb) interface. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3820.	1.3	6
61	A high-performance solid oxide fuel cell with a layered electrolyte for reduced temperatures. <i>Journal of the American Ceramic Society</i> , 2020, 103, 5325-5336.	1.9	6
62	Microarchitected solid oxide fuel cells with improved energy efficiency (Part II): Fabrication and characterization. <i>Journal of Power Sources</i> , 2015, 293, 883-891.	4.0	4
63	SrCo _{0.9} Sb _{0.1} O ₃ cubic perovskite as a novel cathode for intermediate-to-low temperature SOFCs. <i>Fuel Cells Bulletin</i> , 2009, 2009, 12-15.	0.7	3
64	Probing and Mapping Electrode Surfaces in Solid Oxide Fuel Cells. <i>Journal of Visualized Experiments</i> , 2012, , e50161.	0.2	2
65	Enhanced density of sol-gel derived La _{0.8} Sr _{0.2} MnO ₃ thin film with an electric field assisted deposition. <i>Materials Letters</i> , 2013, 92, 192-194.	1.3	2