

# Mingfei Liu

## List of Publications by Year in descending order

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65  
papers

4,149  
citations

147566

31  
h-index

110170

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.	5.5	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.	1.9	6
3	Electrochemical properties of micro-tubular intermediate temperature solid oxide fuel cell with novel asymmetric structure based on BaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.1</sub> Yb <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> proton conducting electrolyte. International Journal of Hydrogen Energy, 2019, 44, 16887-16897.	3.8	29
4	High performance of anode supported BaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.1</sub> Yb <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> proton-conducting electrolyte micro-tubular cells with asymmetric structure for IT-SOFCs. Journal of Electroanalytical Chemistry, 2019, 844, 49-57.	1.9	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.	3.8	32
6	Impedance Spectroscopy Study of an SDC-based SOFC with High Open Circuit Voltage. Electrochimica Acta, 2015, 177, 227-236.	2.6	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.	3.2	54
8	Microarchitected solid oxide fuel cells with improved energy efficiency (Part II): Fabrication and characterization. Journal of Power Sources, 2015, 293, 883-891.	4.0	4
9	An operando surface enhanced Raman spectroscopy (SERS) study of carbon deposition on SOFC anodes. Physical Chemistry Chemical Physics, 2015, 17, 21112-21119.	1.3	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.	4.5	10
11	Understanding the phase formation and compositions of barium carbonate modified NiO-yttria stabilized zirconia for fuel cell applications. International Journal of Hydrogen Energy, 2015, 40, 15597-15604.	3.8	7
12	Operando and In-situ X-ray Spectroscopies of Degradation in La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> Thin Film Cathodes in Fuel Cells. ChemSusChem, 2014, 7, 3078-3087.	3.6	30
13	Enhancing Sulfur Tolerance of a Ni-YSZ Anode through BaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.1</sub> Yb <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> Infiltration. Journal of the Electrochemical Society, 2014, 161, F668-F673.	1.3	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.	7.8	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.	1.6	33
16	High-performance Ni-BaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.1</sub> Yb <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> (BZCYYb) membranes for hydrogen separation. International Journal of Hydrogen Energy, 2013, 38, 14743-14749.	3.8	48
17	A mixed-conducting BaPr <sub>0.8</sub> In <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> cathode for proton-conducting solid oxide fuel cells. Electrochemistry Communications, 2013, 27, 19-21.	2.3	36
18	LSM-infiltrated LSCF cathodes for solid oxide fuel cells. Journal of Energy Chemistry, 2013, 22, 555-559.	7.1	59

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19	Highly active Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> powders of very low apparent density derived from mixed cerium sources. <i>Journal of Power Sources</i> , 2013, 229, 277-284.	4.0	14
20	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
21	Fabrication and modification of solid oxide fuel cell anodes via wet impregnation/infiltration technique. <i>Journal of Power Sources</i> , 2013, 237, 243-259.	4.0	140
22	Chemically Stable Yttrium and Tin Co-doped Barium Zirconate Electrolyte for Next Generation High Performance Proton-conducting Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2013, 3, 1041-1050.	10.2	140
23	Hydrogen oxidation at the Pt-BaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> (BZCYb) interface. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3820.	1.3	6
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	Efficient Electro-catalysts for Enhancing Surface Activity and Stability of SOFC Cathodes. <i>Advanced Energy Materials</i> , 2013, 3, 1149-1154.	10.2	144
26	Enhanced density of sol-gel derived La <sub>0.8</sub> Sr <sub>0.2</sub> MnO <sub>3</sub> thin film with an electric field assisted deposition. <i>Materials Letters</i> , 2013, 92, 192-194.	1.3	2
27	An Efficient SOFC Based on Samaria-Doped Ceria (SDC) Electrolyte. <i>Journal of the Electrochemical Society</i> , 2012, 159, B661-B665.	1.3	76
28	Solid Oxide Fuel Cells. , 2012, , 7-36.		18
29	Probing and Mapping Electrode Surfaces in Solid Oxide Fuel Cells. <i>Journal of Visualized Experiments</i> , 2012, , e50161.	0.2	2
30	A more efficient anode microstructure for SOFCs based on proton conductors. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 18342-18348.	3.8	61
31	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
32	Raman spectroscopic monitoring of carbon deposition on hydrocarbon-fed solid oxide fuel cell anodes. <i>Energy and Environmental Science</i> , 2012, 5, 7913.	15.6	105
33	Direct octane fuel cells: A promising power for transportation. <i>Nano Energy</i> , 2012, 1, 448-455.	8.2	118
34	Enhanced performance of LSCF cathode through surface modification. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8613-8620.	3.8	161
35	Electrical and electrocatalytic properties of a La <sub>0.8</sub> Sr <sub>0.2</sub> Co <sub>0.17</sub> Mn <sub>0.83</sub> O <sub>3-<math>\delta</math></sub> cathode for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2012, 205, 80-85.	4.0	22
36	Promotion of water-mediated carbon removal by nanostructured barium oxide/nickel interfaces in solid oxide fuel cells. <i>Nature Communications</i> , 2011, 2, 357.	5.8	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 $\text{La}_{0.85}\text{Sr}_{0.15}\text{MnO}_3$ investigated using a new test electrode platform. <i>Energy and Environmental Science</i> , 2011, 4, 2249.	15.6	176
38	Preparation and Characterization of $(\text{La}_{0.8}\text{Sr}_{0.2})_{0.95}\text{MnO}_3$ ( $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$ ) Thin Films and $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3/\text{LSM}$ Interface for Solid Oxide Fuel Cells. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3340-3345.	1.9	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.	4.0	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.	3.8	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.	2.3	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.	3.8	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.	4.0	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.	3.8	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.	0.9	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.	0.7	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.	2.8	30
48	Effect of impregnation of Sm-doped $\text{CeO}_2$ in $\text{NiO}/\text{YSZ}$ 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
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.	6.0	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.	4.0	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.	4.0	15
52	Preparation of $\text{Pr}_{0.35}\text{Nd}_{0.35}\text{Sr}_{0.3}\text{MnO}_3/\text{YSZ}$ 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.	4.0	9
53	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
54	YSZ-based SOFC with modified electrode/electrolyte interfaces for operating at temperature lower than $650^\circ\text{C}$ . <i>Journal of Power Sources</i> , 2008, 180, 215-220.	4.0	58

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55	Novel nano-network cathodes for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2008, 185, 13-18.	4.0	80
56	High sintering ability and electrical conductivity of Zn doped La(Ca)CrO <sub>3</sub> based interconnect ceramics for SOFCs. <i>Journal of Power Sources</i> , 2008, 177, 451-456.	4.0	18
57	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
58	Direct liquid methanol-fueled solid oxide fuel cell. <i>Journal of Power Sources</i> , 2008, 185, 188-192.	4.0	115
59	Influence of Cr deficiency on sintering character and properties of SOFC interconnect material La <sub>0.7</sub> Ca <sub>0.3</sub> Cr <sub>1-x</sub> O <sub>3</sub> . <i>Materials Research Bulletin</i> , 2008, 43, 2607-2616.	2.7	19
60	Fabrication and characterization of Y <sub>2</sub> O <sub>3</sub> stabilized ZrO <sub>2</sub> films deposited with aerosol-assisted MOCVD. <i>Solid State Ionics</i> , 2007, 177, 3405-3410.	1.3	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. <i>Journal of Power Sources</i> , 2007, 171, 495-498.	4.0	22
62	Synthesis of LaCrO <sub>3</sub> films using spray pyrolysis technique. <i>Materials Letters</i> , 2007, 61, 1908-1911.	1.3	16
63	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
64	Decomposition Behavior of M(DPM) <sub>n</sub> (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
65	Synthesis and thermal properties of polystyrene/montmorillonite nanocomposites by $\gamma$ -ray radiation polymerization. <i>Journal of Applied Polymer Science</i> , 2003, 90, 1692-1696.	1.3	7