

Hanping Ding

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70 papers	1,453 citations	23 h-index	36 g-index
88 ext. papers	1,798 ext. citations	8.5 avg, IF	4.75 L-index

#	Paper	IF	Citations
70	High performance of proton-conducting solid oxide fuel cell with a layered PrBaCo ₂ O ₅ + λ cathode. <i>Journal of Power Sources</i> , 2009 , 194, 835-837	8.9	96
69	Self-sustainable protonic ceramic electrochemical cells using a triple conducting electrode for hydrogen and power production. <i>Nature Communications</i> , 2020 , 11, 1907	17.4	80
68	Protonic ceramic membrane fuel cells with layered GdBaCo ₂ O ₅ +x cathode prepared by gel-casting and suspension spray. <i>Journal of Power Sources</i> , 2008 , 177, 330-333	8.9	77
67	High performance protonic ceramic membrane fuel cells (PCMFCs) with Ba _{0.5} Sr _{0.5} Zn _{0.2} Fe _{0.8} O ₃ λ perovskite cathode. <i>Electrochemistry Communications</i> , 2008 , 10, 1388-1391	5.1	67
66	Intermediate-to-low temperature protonic ceramic membrane fuel cells with Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ -BaZr _{0.1} Ce _{0.7} Y _{0.2} O ₃ - λ composite cathode. <i>Journal of Power Sources</i> , 2009 , 186, 58-61	8.9	65
65	Electrochemical performance of BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ λ electrolyte based proton-conducting SOFC solid oxide fuel cell with layered perovskite PrBaCo ₂ O ₅ + λ cathode. <i>Journal of Power Sources</i> , 2011 , 196, 2602-2607	8.9	63
64	A High-Performing Sulfur-Tolerant and Redox-Stable Layered Perovskite Anode for Direct Hydrocarbon Solid Oxide Fuel Cells. <i>Scientific Reports</i> , 2015 , 5, 18129	4.9	56
63	Novel layered perovskite oxide PrBaCuCoO ₅ + λ as a potential cathode for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 453-456	8.9	54
62	A redox-stable direct-methane solid oxide fuel cell (SOFC) with Sr ₂ FeNb _{0.2} Mo _{0.8} O ₆ λ double perovskite as anode material. <i>Journal of Power Sources</i> , 2016 , 327, 573-579	8.9	53
61	3D Self-Architected Steam Electrode Enabled Efficient and Durable Hydrogen Production in a Proton-Conducting Solid Oxide Electrolysis Cell at Temperatures Lower Than 600 °C. <i>Advanced Science</i> , 2018 , 5, 1800360	13.6	44
60	Investigation of cobalt-free perovskite Ba _{0.95} La _{0.05} FeO ₃ λ as a cathode for proton-conducting solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011 , 196, 9352-9355	8.9	43
59	PrBa _{0.5} Sr _{0.5} Co ₂ O ₅ + λ layered perovskite cathode for intermediate temperature solid oxide fuel cells. <i>Electrochimica Acta</i> , 2010 , 55, 3812-3816	6.7	42
58	BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ λ electrolyte-based solid oxide fuel cells with cobalt-free PrBaFe ₂ O ₅ + λ layered perovskite cathode. <i>Journal of Power Sources</i> , 2010 , 195, 7038-7041	8.9	40
57	Exploring electronic conduction through BaCe Zr _{0.9} Y _{0.1} O ₃ λ proton-conducting ceramics. <i>Solid State Ionics</i> , 2016 , 286, 117-121	3.3	33
56	Cost-effective macro-porous mullite-corundum ceramic membrane supports derived from the industrial grade powder. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 350-356	5.7	33
55	Cobalt-free layered perovskite GdBaFe ₂ O ₅ +x as a novel cathode for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 4718-4721	8.9	29
54	Stable, easily sintered Ca λ n-doped YCrO ₃ as novel interconnect materials for co-fired yttrium-stabilized zirconia-based solid oxide fuel cells. <i>Journal of Power Sources</i> , 2009 , 188, 483-488	8.9	28

53	Electricity generation in dry methane by a durable ceramic fuel cell with high-performing and coking-resistant layered perovskite anode. <i>Applied Energy</i> , 2019 , 233-234, 37-43	10.7	28
52	GdBa _{0.5} Sr _{0.5} Co ₂ O ₅ + \square layered perovskite as promising cathode for proton conducting solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2010 , 496, 683-686	5.7	27
51	SrCo _{0.9} Sb _{0.1} O ₃ \square tubular 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	5.7	27
50	An Active and Robust Air Electrode for Reversible Protonic Ceramic Electrochemical Cells. <i>ACS Energy Letters</i> , 1511-1520	20.1	27
49	A novel layered perovskite cathode for proton conducting solid oxide fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 775-778	8.9	24
48	The co-doping effect of Sm and In on ceria for electrolyte application in IT-SOFC. <i>Journal of Alloys and Compounds</i> , 2016 , 663, 750-754	5.7	23
47	A novel cobalt-free layered GdBaFe ₂ O ₅ + \square cathode for proton conducting solid oxide fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 4139-4142	8.9	23
46	Proton conducting solid oxide fuel cells with layered PrBa _{0.5} Sr _{0.5} Co ₂ O ₅ + \square perovskite cathode. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 2486-2490	6.7	22
45	Low-temperature protonic ceramic membrane fuel cells (PCMFCs) with SrCo _{0.9} Sb _{0.1} O ₃ \square tubular perovskite cathode. <i>Journal of Power Sources</i> , 2008 , 185, 937-940	8.9	22
44	Proton-conducting ceramic fuel cells: Scale up and stack integration. <i>Journal of Power Sources</i> , 2021 , 482, 228868	8.9	21
43	High performance protonic ceramic membrane fuel cells (PCMFCs) with Sm _{0.5} Sr _{0.5} Co ₃ \square perovskite cathode. <i>Journal of Alloys and Compounds</i> , 2010 , 494, 233-235	5.7	20
42	Cost-effective tubular cordierite micro-filtration membranes processed by co-sintering. <i>Journal of Alloys and Compounds</i> , 2009 , 477, L35-L40	5.7	17
41	Understanding of A-site deficiency in layered perovskites: promotion of dual reaction kinetics for water oxidation and oxygen reduction in protonic ceramic electrochemical cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14600-14608	13	16
40	Double perovskite Ba ₂ FeMoO ₆ \square as fuel electrode for protonic-ceramic membranes. <i>Solid State Ionics</i> , 2017 , 306, 97-103	3.3	15
39	Direct methane fueled solid oxide fuel cell model with detailed reforming reactions. <i>Chemical Engineering Journal</i> , 2013 , 228, 917-924	14.7	15
38	A Ceramic-Anode Supported Low Temperature Solid Oxide Fuel Cell. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, B86		14
37	BaZr _{0.1} Ce _{0.7} Y _{0.2} O ₃ \square proton-conducting electrolyte prepared by gel-casting for low-temperature solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2009 , 474, 364-369	5.7	14
36	Layered perovskite GdBaCoFeO _{5+x} as cathode for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 4316-4319	6.7	14

35	Tri-Doped BaCeO-BaZrO as a Chemically Stable Electrolyte with High Proton-Conductivity for Intermediate Temperature Solid Oxide Electrolysis Cells (SOECs). <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38275-38284	9.5	14
34	High-performing and stable electricity generation by ceramic fuel cells operating in dry methane over 1000 hours. <i>Journal of Power Sources</i> , 2018 , 401, 322-328	8.9	14
33	High performance layered SmBa _{0.5} Sr _{0.5} Co ₂ O ₅ + δ cathode for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2009 , 194, 815-817	8.9	13
32	Novel layered perovskite GdBaCoFeO ₅ + δ as a potential cathode for proton-conducting solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 4311-4315	6.7	13
31	A high-performing proton-conducting solid oxide fuel cell with layered perovskite cathode in intermediate temperatures. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 19757-19762	6.7	13
30	Dual 3D Ceramic Textile Electrodes: Fast Kinetics for Carbon Oxidation Reaction and Oxygen Reduction Reaction in Direct Carbon Fuel Cells at Reduced Temperatures. <i>Advanced Functional Materials</i> , 2020 , 30, 1910096	15.6	11
29	A nanosheet-structured three-dimensional macroporous material with high ionic conductivity synthesized using glucose as a transforming template. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6205-8	16.4	10
28	Revitalizing interface in protonic ceramic cells by acid etch.. <i>Nature</i> , 2022 , 604, 479-485	50.4	10
27	A mixed proton-oxide ion-electron conducting anode for highly coking-resistant solid oxide fuel cells. <i>Electrochimica Acta</i> , 2014 , 150, 55-61	6.7	9
26	Stable, easily sintered BaCe _{0.5} Zr _{0.3} Y _{0.16} Zn _{0.04} O ₃ + δ electrolyte-based proton-conducting solid oxide fuel cells by gel-casting and suspension spray. <i>Journal of Alloys and Compounds</i> , 2009 , 478, 590-593	5.7	9
25	Determination of Electrochemical Kinetic Property for Mixed Ionic Electronic Conductors from Electrical Conductivity Relaxation Measurements. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F951-F958	3.9	8
24	An Interfacial Nanospoke-Structured Cathode for Low Temperature Solid Oxide Fuel Cells. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400008	4.6	8
23	Advancement of Proton-Conducting Solid Oxide Fuel Cells and Solid Oxide Electrolysis Cells at Idaho National Laboratory (INL). <i>ECS Transactions</i> , 2019 , 91, 1029-1034	1	7
22	Multi-physicochemical modeling of direct methane fueled solid oxide fuel cells. <i>Journal of Power Sources</i> , 2013 , 241, 718-727	8.9	7
21	Dual Functional Ni ₃ S ₂ @Ni Core/Shell Nanoparticles Decorating Nanoporous Carbon as Cathode Scaffolds for Lithium/Sulfur Battery with Lean Electrolytes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4173-4179	6.1	6
20	A mini-review on proton conduction of BaZrO ₃ -based perovskite electrolytes. <i>JPhys Energy</i> , 2021 , 3, 032019	4.9	6
19	Modeling the performance and faradaic efficiency of solid oxide electrolysis cells using doped barium zirconate perovskite electrolytes. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 11511-11522	6.7	5
18	Regulation of Cathode Mass and Charge Transfer by Structural 3D Engineering for Protonic Ceramic Fuel Cell at 400°C. <i>Advanced Functional Materials</i> , 2021 , 31, 2102907	15.6	4

17	A platinum nanowire network as a highly efficient current collector for intermediate temperature solid oxide fuel cells. <i>RSC Advances</i> , 2014 , 4, 11317-11321	3.7	3
16	Hydrogen Production: 3D Self-Architected Steam Electrode Enabled Efficient and Durable Hydrogen Production in a Proton-Conducting Solid Oxide Electrolysis Cell at Temperatures Lower Than 600 °C (Adv. Sci. 11/2018). <i>Advanced Science</i> , 2018 , 5, 1870070	13.6	3
15	Direct conversion of natural gases in solid oxide cells: A mini-review. <i>Electrochemistry Communications</i> , 2021 , 128, 107068	5.1	2
14	Regulation of Cathode Mass and Charge Transfer by Structural 3D Engineering for Protonic Ceramic Fuel Cell at 400 °C (Adv. Funct. Mater. 33/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170244	15.6	2
13	Electrochemically Engineered, Highly Energy-Efficient Conversion of Ethane to Ethylene and Hydrogen below 550 °C in a Protonic Ceramic Electrochemical Cell. <i>ACS Catalysis</i> , 2021 , 11, 12194-12202	13.1	2
12	Nanostructured Electrodes for High-Performing Solid Oxide Fuel Cells 2018 , 227-247		1
11	An Interfacial Nanospoke-Structured Cathode for Low Temperature Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2015 , 68, 743-749	1	
10	Direct Carbon Fuel Cells: Dual 3D Ceramic Textile Electrodes: Fast Kinetics for Carbon Oxidation Reaction and Oxygen Reduction Reaction in Direct Carbon Fuel Cells at Reduced Temperatures (Adv. Funct. Mater. 19/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070119	15.6	
9	Resorcinol-formaldehyde gel method to synthesize porous Ce _{0.8} Sm _{0.2} O _{1.9} nanoparticles. <i>Materials Letters</i> , 2012 , 81, 5-8	3.3	
8	Methane-Fueled Proton-Conducting Ceramic Fuel Cell Stacks. <i>ECS Transactions</i> , 2017 , 78, 1941-1944	1	
7	A Nanosheet-Structured Three-Dimensional Macroporous Material with High Ionic Conductivity Synthesized Using Glucose as a Transforming Template. <i>Angewandte Chemie</i> , 2012 , 124, 6309-6312	3.6	
6	Highly Efficient and Durable Materials for Protonic Ceramic Electrochemical Cells Operated at 400~600 °C. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 2588-2588	0	
5	Electronic Transport within Proton-Conducting Ceramics and Its Effect on Faradaic Efficiency of High-Temperature Water Electrolysis for Hydrogen Production. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-01, 1492-1492	0	
4	Three-dimensional Analysis of Materials at Multiple Length Scales. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1680-1682	0.5	
3	Composition Optimization of Triple Conducting PrNi _x Co _{1-x} O _{3-δ} Oxygen Electrodes for Protonic Ceramic Electrochemical Cells. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-01, 1145-1145	0	
2	Natural Gas Conversion Using Proton-Conducting Ceramic Membrane Reactor. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-01, 1149-1149	0	
1	TEM Sample Preparation of Buried Interfaces in Porous Layered Materials. <i>Microscopy and Microanalysis</i> , 2021 , 27, 3466-3467	0.5	