## **Hanping Ding**

## List of Publications by Year in Descending Order

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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 g-index

88 1,798 8.5 4.75 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
70	Revitalizing interface in protonic ceramic cells by acid etch <i>Nature</i> , <b>2022</b> , 604, 479-485	50.4	10
69	Modeling the performance and faradaic efficiency of solid oxide electrolysis cells using doped barium zirconate perovskite electrolytes. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 11511-115	2 <sup>2</sup> 7	5
68	Composition Optimization of Triple Conducting PrNixCo1-XO3-IDxygen Electrodes for Protonic Ceramic Electrochemical Cells. <i>ECS Meeting Abstracts</i> , <b>2021</b> , MA2021-01, 1145-1145	0	
67	Natural Gas Conversion Using Proton-Conducting Ceramic Membrane Reactor. <i>ECS Meeting Abstracts</i> , <b>2021</b> , MA2021-01, 1149-1149	0	
66	Regulation of Cathode Mass and Charge Transfer by Structural 3D Engineering for Protonic Ceramic Fuel Cell at 400 CC. Advanced Functional Materials, 2021, 31, 2102907	15.6	4
65	A mini-review on proton conduction of BaZrO3-based perovskite electrolytes. <i>JPhys Energy</i> , <b>2021</b> , 3, 032019	4.9	6
64	TEM Sample Preparation of Buried Interfaces in Porous Layered Materials. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 3466-3467	0.5	
63	Proton-conducting ceramic fuel cells: Scale up and stack integration. <i>Journal of Power Sources</i> , <b>2021</b> , 482, 228868	8.9	21
62	Direct conversion of natural gases in solid oxide cells: A mini-review. <i>Electrochemistry Communications</i> , <b>2021</b> , 128, 107068	5.1	2
61	Regulation of Cathode Mass and Charge Transfer by Structural 3D Engineering for Protonic Ceramic Fuel Cell at 400 (Adv. Funct. Mater. 33/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 21702	2 <b>44</b> .6	2
60	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> , <b>2021</b> , 11, 12194-1220.	2 <sup>13.1</sup>	2
59	Dual Functional Ni3S2@Ni CoreBhell Nanoparticles Decorating Nanoporous Carbon as Cathode Scaffolds for LithiumBulfur Battery with Lean Electrolytes. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4173-4	49 <del>7</del> 9	6
58	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> , <b>2020</b> , 30, 2070119	15.6	
57	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> , <b>2020</b> , 30, 1910096	15.6	11
56	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> , <b>2020</b> , 8, 14600-14608	13	16
55	Highly Efficient and Durable Materials for Protonic Ceramic Electrochemical Cells Operated at 400~600 ?c. ECS Meeting Abstracts, <b>2020</b> , MA2020-02, 2588-2588	O	
54	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> , <b>2020</b> , MA2020-01, 1492-1492	О	

## (2015-2020)

53	Three-dimensional Analysis of Materials at Multiple Length Scales. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 1680-1682	0.5	
52	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 &amp; Interfaces</i> , <b>2020</b> , 12, 38275-38284	9.5	14
51	Self-sustainable protonic ceramic electrochemical cells using a triple conducting electrode for hydrogen and power production. <i>Nature Communications</i> , <b>2020</b> , 11, 1907	17.4	80
50	Advancement of Proton-Conducting Solid Oxide Fuel Cells and Solid Oxide Electrolysis Cells at Idaho National Laboratory (INL). <i>ECS Transactions</i> , <b>2019</b> , 91, 1029-1034	1	7
49	Electricity generation in dry methane by a durable ceramic fuel cell with high-performing and coking-resistant layered perovskite anode. <i>Applied Energy</i> , <b>2019</b> , 233-234, 37-43	10.7	28
48	Nanostructured Electrodes for High-Performing Solid Oxide Fuel Cells <b>2018</b> , 227-247		1
47	Hydrogen Production: 3D Self-Architectured Steam Electrode Enabled Efficient and Durable Hydrogen Production in a Proton-Conducting Solid Oxide Electrolysis Cell at Temperatures Lower Than 600 LC (Adv. Sci. 11/2018). <i>Advanced Science</i> , <b>2018</b> , 5, 1870070	13.6	3
46	A high-performing proton-conducting solid oxide fuel cell with layered perovskite cathode in intermediate temperatures. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 19757-19762	6.7	13
45	High-performing and stable electricity generation by ceramic fuel cells operating in dry methane over 1000 hours. <i>Journal of Power Sources</i> , <b>2018</b> , 401, 322-328	8.9	14
44	3D Self-Architectured Steam Electrode Enabled Efficient and Durable Hydrogen Production in a Proton-Conducting Solid Oxide Electrolysis Cell at Temperatures Lower Than 600 LC. <i>Advanced Science</i> , <b>2018</b> , 5, 1800360	13.6	44
43	Double perovskite Ba2FeMoO6las fuel electrode for protonic-ceramic membranes. <i>Solid State Ionics</i> , <b>2017</b> , 306, 97-103	3.3	15
42	Methane-Fueled Proton-Conducting Ceramic Fuel Cell Stacks. ECS Transactions, 2017, 78, 1941-1944	1	
41	Exploring electronic conduction through BaCe Zr0.910.1031 proton-conducting ceramics. <i>Solid State Ionics</i> , <b>2016</b> , 286, 117-121	3.3	33
40	The co-doping effect of Sm and In on ceria for electrolyte application in IT-SOFC. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 663, 750-754	5.7	23
39	A redox-stable direct-methane solid oxide fuel cell (SOFC) with Sr2FeNb0.2Mo0.8O6Idouble perovskite as anode material. <i>Journal of Power Sources</i> , <b>2016</b> , 327, 573-579	8.9	53
38	An Interfacial Nanospike-Structured Cathode for Low Temperature Solid Oxide Fuel Cells. <i>ECS Transactions</i> , <b>2015</b> , 68, 743-749	1	
37	Determination of Electrochemical Kinetic Property for Mixed Ionic Electronic Conductors from Electrical Conductivity Relaxation Measurements. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, F95	1 <sup>3</sup> F958	8
36	A High-Performing Sulfur-Tolerant and Redox-Stable Layered Perovskite Anode for Direct Hydrocarbon Solid Oxide Fuel Cells. <i>Scientific Reports</i> , <b>2015</b> , 5, 18129	4.9	56

35	A mixed proton-oxide ion-electron conducting anode for highly coking-resistant solid oxide fuel cells. <i>Electrochimica Acta</i> , <b>2014</b> , 150, 55-61	6.7	9
34	A platinum nanowire network as a highly efficient current collector for intermediate temperature solid oxide fuel cells. <i>RSC Advances</i> , <b>2014</b> , 4, 11317-11321	3.7	3
33	An Interfacial Nanospike-Structured Cathode for Low Temperature Solid Oxide Fuel Cells. <i>Advanced Materials Interfaces</i> , <b>2014</b> , 1, 1400008	4.6	8
32	Direct methane fueled solid oxide fuel cell model with detailed reforming reactions. <i>Chemical Engineering Journal</i> , <b>2013</b> , 228, 917-924	14.7	15
31	Multi-physicochemical modeling of direct methane fueled solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2013</b> , 241, 718-727	8.9	7
30	Resorcinolformaldehyde gel method to synthesize porous Ce0.8Sm0.2O1.9 nanoparticles. <i>Materials Letters</i> , <b>2012</b> , 81, 5-8	3.3	
29	A Nanosheet-Structured Three-Dimensional Macroporous Material with High Ionic Conductivity Synthesized Using Glucose as a Transforming Template. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 6309-6312	3.6	
28	A nanosheet-structured three-dimensional macroporous material with high ionic conductivity synthesized using glucose as a transforming template. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 6205-8	16.4	10
27	A Ceramic-Anode Supported Low Temperature Solid Oxide Fuel Cell. <i>Electrochemical and Solid-State Letters</i> , <b>2012</b> , 15, B86		14
26	Investigation of cobalt-free perovskite Ba0.95La0.05FeO3D a cathode for proton-conducting solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 9352-9355	8.9	43
25	Electrochemical performance of BaZr0.1Ce0.7Y0.1Yb0.1O3lelectrolyte based proton-conducting SOFC solid oxide fuel cell with layered perovskite PrBaCo2O5+leathode. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 2602-2607	8.9	63
24	High performance protonic ceramic membrane fuel cells (PCMFCs) with Sm0.5Sr0.5CoO3II perovskite cathode. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 494, 233-235	5.7	20
23	GdBa0.5Sr0.5Co2O5+Ilayered perovskite as promising cathode for proton conducting solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 496, 683-686	5.7	27
22	Novel layered perovskite oxide PrBaCuCoO5+las a potential cathode for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 453-456	8.9	54
21	A novel layered perovskite cathode for proton conducting solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 775-778	8.9	24
20	A novel cobalt-free layered GdBaFe2O5+Itathode for proton conducting solid oxide fuel cells. Journal of Power Sources, <b>2010</b> , 195, 4139-4142	8.9	23
19	Cobalt-free layered perovskite GdBaFe2O5+x as a novel cathode for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 4718-4721	8.9	29
18	BaZr0.1Ce0.7Y0.1Yb0.1O3lelectrolyte-based solid oxide fuel cells with cobalt-free PrBaFe2O5+ layered perovskite cathode. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 7038-7041	8.9	40

## LIST OF PUBLICATIONS

17	Proton conducting solid oxide fuel cells with layered PrBa0.5Sr0.5Co2O5+[perovskite cathode. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 2486-2490	6.7	22
16	Novel layered perovskite GdBaCoFeO5+las a potential cathode for proton-conducting solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 4311-4315	6.7	13
15	Layered perovskite GdBaCoFeO5+x as cathode for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 4316-4319	6.7	14
14	PrBa0.5Sr0.5Co2O5+Ilayered perovskite cathode for intermediate temperature solid oxide fuel cells. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 3812-3816	6.7	42
13	Stable, easily sintered Cath-doped YCrO3 as novel interconnect materials for co-fired yttrium-stabilized zirconia-based solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2009</b> , 188, 483-488	8.9	28
12	High performance layered SmBa0.5Sr0.5Co2O5+lkathode for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2009</b> , 194, 815-817	8.9	13
11	Intermediate-to-low temperature protonic ceramic membrane fuel cells with Ba0.5Sr0.5Co0.8Fe0.2O3- <b>B</b> aZr0.1Ce0.7Y0.2O3- <b>L</b> omposite cathode. <i>Journal of Power Sources</i> , <b>2009</b> , 186, 58-61	8.9	65
10	High performance of proton-conducting solid oxide fuel cell with a layered PrBaCo2O5+Itathode. Journal of Power Sources, 2009, 194, 835-837	8.9	96
9	SrCo0.9Sb0.1O3I\(\text{tubic}\) perovskite as a novel cathode for intermediate-to-low temperature solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 472, 556-558	5.7	27
8	BaZr0.1Ce0.7Y0.2O3[proton-conducting electrolyte prepared by gel-casting for low-temperature solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 474, 364-369	5.7	14
7	Cost-effective macro-porous mullite-corundum ceramic membrane supports derived from the industrial grade powder. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, 350-356	5.7	33
6	Cost-effective tubular cordierite micro-filtration membranes processed by co-sintering. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, L35-L40	5.7	17
5	Stable, easily sintered BaCe0.5Zr0.3Y0.16Zn0.04O3lelectrolyte-based proton-conducting solid oxide fuel cells by gel-casting and suspension spray. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 590-59	<b>3</b> ·7	9
4	Low-temperature protonic ceramic membrane fuel cells (PCMFCs) with SrCo0.9Sb0.1O3lŁubic perovskite cathode. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 937-940	8.9	22
3	Prontonic ceramic membrane fuel cells with layered GdBaCo2O5+x cathode prepared by gel-casting and suspension spray. <i>Journal of Power Sources</i> , <b>2008</b> , 177, 330-333	8.9	77
2	High performance protonic ceramic membrane fuel cells (PCMFCs) with Ba0.5Sr0.5Zn0.2Fe0.8O3I perovskite cathode. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 1388-1391	5.1	67
1	An Active and Robust Air Electrode for Reversible Protonic Ceramic Electrochemical Cells. <i>ACS Energy Letters</i> ,1511-1520	20.1	27