

# Zhigang Shao

## List of Publications by Citations

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132  
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4,172  
ext. citations

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#	Paper	IF	Citations
125	Nanostructured polyaniline-decorated Pt/C@PANI core-shell catalyst with enhanced durability and activity. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13252-5	16.4	373
124	Nitrogen-doped carbon nanotubes derived from ZnFe-ZIF nanospheres and their application as efficient oxygen reduction electrocatalysts with in situ generated iron species. <i>Chemical Science</i> , <b>2013</b> , 4, 2941	9.4	250
123	Degradation mechanism of polystyrene sulfonic acid membrane and application of its composite membranes in fuel cells. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 611-615	3.6	132
122	Vertically Aligned FeOOH/NiFe Layered Double Hydroxides Electrode for Highly Efficient Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 464-471	9.5	129
121	1,2,4-Triazolium perfluorobutanesulfonate as an archetypal pure protic organic ionic plastic crystal electrolyte for all-solid-state fuel cells. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1276-1291	35.4	110
120	Nanostructured ultrathin catalyst layer based on open-walled PtCo bimetallic nanotube arrays for proton exchange membrane fuel cells. <i>Nano Energy</i> , <b>2017</b> , 34, 344-355	17.1	82
119	Crosslinked high-performance anion exchange membranes based on poly(styrene- <i>b</i> -(ethylene-co-butylene)- <i>b</i> -styrene). <i>Journal of Membrane Science</i> , <b>2018</b> , 551, 66-75	9.6	79
118	Investigations on degradation of the long-term proton exchange membrane water electrolysis stack. <i>Journal of Power Sources</i> , <b>2014</b> , 267, 515-520	8.9	79
117	Supported noble metals on hydrogen-treated TiO <sub>2</sub> nanotube arrays as highly ordered electrodes for fuel cells. <i>ChemSusChem</i> , <b>2013</b> , 6, 659-66	8.3	78
116	Functionalization of polybenzimidazole-crosslinked poly(vinylbenzyl chloride) with two cyclic quaternary ammonium cations for anion exchange membranes. <i>Journal of Membrane Science</i> , <b>2018</b> , 548, 1-10	9.6	71
115	High-performance alkaline fuel cells using crosslinked composite anion exchange membrane. <i>Journal of Power Sources</i> , <b>2013</b> , 221, 247-251	8.9	70
114	Highly effective Ir(x)Sn(1-x)O <sub>2</sub> electrocatalysts for oxygen evolution reaction in the solid polymer electrolyte water electrolyser. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 2858-66	3.6	55
113	CrN/Cr multilayer coating on 316L stainless steel as bipolar plates for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , <b>2012</b> , 198, 176-181	8.9	51
112	Cobalt-zinc nitride on nitrogen doped carbon black nanohybrids as a non-noble metal electrocatalyst for oxygen reduction reaction. <i>Nanoscale</i> , <b>2017</b> , 9, 6259-6263	7.7	49
111	Prognostics methods and degradation indexes of proton exchange membrane fuel cells: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 123, 109721	16.2	49
110	Construction of orderly hierarchical FeOOH/NiFe layered double hydroxides supported on cobaltous carbonate hydroxide nanowire arrays for a highly efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3397-3401	13	48
109	High durability and hydroxide ion conducting pore-filled anion exchange membranes for alkaline fuel cell applications. <i>Journal of Power Sources</i> , <b>2014</b> , 269, 1-6	8.9	48

108	Protic ionic liquids: an alternative proton-conducting electrolyte for high temperature proton exchange membrane fuel cells. <i>RSC Advances</i> , <b>2012</b> , 2, 8953	3.7	47
107	CNTs@FeNi core-shell nanostructures as active electrocatalyst for oxygen reduction. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11768	13	45
106	Recent Progress on the Key Materials and Components for Proton Exchange Membrane Fuel Cells in Vehicle Applications. <i>Energies</i> , <b>2016</b> , 9, 603	3.1	44
105	Effect of water and annealing temperature of anodized TiO <sub>2</sub> nanotubes on hydrogen production in photoelectrochemical cell. <i>Electrochimica Acta</i> , <b>2013</b> , 107, 313-319	6.7	41
104	High performance anion exchange ionomer for anion exchange membrane fuel cells. <i>RSC Advances</i> , <b>2017</b> , 7, 19153-19161	3.7	39
103	Fine microstructure of high performance electrode in alkaline anion exchange membrane fuel cells. <i>Journal of Power Sources</i> , <b>2014</b> , 267, 39-47	8.9	38
102	Degradation reduction of polybenzimidazole membrane blended with CeO <sub>2</sub> as a regenerative free radical scavenger. <i>Journal of Membrane Science</i> , <b>2017</b> , 522, 23-30	9.6	37
101	Highly stable ternary tin-palladium-platinum catalysts supported on hydrogenated TiO <sub>2</sub> nanotube arrays for fuel cells. <i>Nanoscale</i> , <b>2013</b> , 5, 6834-41	7.7	37
100	Behaviors of a proton exchange membrane electrolyzer under water starvation. <i>RSC Advances</i> , <b>2015</b> , 5, 14506-14513	3.7	36
99	Preparation of Pt catalysts decorated TiO <sub>2</sub> nanotube arrays by redox replacement of Ni precursors for proton exchange membrane fuel cells. <i>Electrochimica Acta</i> , <b>2012</b> , 80, 1-6	6.7	36
98	Enhanced water transport in AEMs based on poly(styrene-ethylene-butylene-ethylene) triblock copolymer for high fuel cell performance. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 1894-1903	4.9	34
97	Vertically aligned carbon-coated titanium dioxide nanorod arrays on carbon paper with low platinum for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 276, 80-88	8.9	34
96	Nano-engineering of a 3D-ordered membrane electrode assembly with ultrathin Pt skin on open-walled PdCo nanotube arrays for fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6521-6533	13	34
95	Anchoring ultrafine Pt nanoparticles on the 3D hierarchical self-assembly of graphene/functionalized carbon black as a highly efficient oxygen reduction catalyst for PEMFCs. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 15074-15082	13	34
94	Study on hydrophobicity loss of the gas diffusion layer in PEMFCs by electrochemical oxidation. <i>RSC Advances</i> , <b>2014</b> , 4, 3852-3856	3.7	34
93	Porous polybenzimidazole membranes doped with phosphoric acid: Preparation and application in high-temperature proton-exchange-membrane fuel cells. <i>Energy Conversion and Management</i> , <b>2014</b> , 85, 323-327	10.6	33
92	A novel Ir/CeO <sub>2</sub> nanoparticle electrocatalyst for the hydrogen oxidation reaction of alkaline anion exchange membrane fuel cells. <i>RSC Advances</i> , <b>2017</b> , 7, 31574-31581	3.7	33
91	Composition optimization of arc ion plated Cr <sub>Nx</sub> films on 316L stainless steel as bipolar plates for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , <b>2012</b> , 205, 318-323	8.9	31

90	Uniform Pd <sub>0.33</sub> Ir <sub>0.67</sub> nanoparticles supported on nitrogen-doped carbon with remarkable activity toward the alkaline hydrogen oxidation reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3161-3169	13	30
89	Preparation and characterization of PTFE based composite anion exchange membranes for alkaline fuel cells. <i>Journal of Membrane Science</i> , <b>2012</b> , 421-422, 311-317	9.6	30
88	Wavy PtCu alloy nanowire networks with abundant surface defects enhanced oxygen reduction reaction. <i>Nano Research</i> , <b>2019</b> , 12, 2766-2773	10	29
87	Triblock polymer mediated synthesis of IrSn oxide electrocatalysts for oxygen evolution reaction. <i>Journal of Power Sources</i> , <b>2014</b> , 249, 175-184	8.9	29
86	Ultrathin IrRu nanowire networks with high performance and durability for the hydrogen oxidation reaction in alkaline anion exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 20374-20382	13	29
85	The preparation technique optimization of epoxy/compressed expanded graphite composite bipolar plates for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 5312-5319	8.9	28
84	A novel IrNi@PdIr/C core-shell electrocatalyst with enhanced activity and durability for the hydrogen oxidation reaction in alkaline anion exchange membrane fuel cells. <i>Nanoscale</i> , <b>2018</b> , 10, 4872-4881	7.7	27
83	Improvement of PEMFC water management by employing water transport plate as bipolar plate. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 21922-21929	6.7	25
82	Development of proton-conducting membrane based on incorporating a proton conductor 1,2,4-triazolium methanesulfonate into the Nafion membrane. <i>Journal of Energy Chemistry</i> , <b>2015</b> , 24, 199-206	12	24
81	Pt/WO <sub>3</sub> /C nanocomposite with parallel WO <sub>3</sub> nanorods as cathode catalyst for proton exchange membrane fuel cells. <i>Journal of Energy Chemistry</i> , <b>2015</b> , 24, 39-44	12	24
80	A novel three-dimensional flow field design and experimental research for proton exchange membrane fuel cells. <i>Energy Conversion and Management</i> , <b>2020</b> , 205, 112335	10.6	24
79	Development of advanced catalytic layer based on vertically aligned conductive polymer arrays for thin-film fuel cell electrodes. <i>Journal of Power Sources</i> , <b>2016</b> , 329, 347-354	8.9	22
78	Vertically Aligned Titanium Nitride Nanorod Arrays as Supports of Platinum/Palladium/Cobalt Catalysts for Thin-Film Proton Exchange Membrane Fuel Cell Electrodes. <i>ChemElectroChem</i> , <b>2016</b> , 3, 734-740	4.3	22
77	Nitrogen-doped porous carbon derived from Fe-MIL nanocrystals as an electrocatalyst for efficient oxygen reduction. <i>RSC Advances</i> , <b>2017</b> , 7, 22610-22618	3.7	21
76	Vertically Grown MoS <sub>2</sub> Nanoplates on VN with an Enlarged Surface Area as an Efficient and Stable Electrocatalyst for HER. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2854-2861	6.1	21
75	Carbon-supported ultrafine Pt nanoparticles modified with trace amounts of cobalt as enhanced oxygen reduction reaction catalysts for proton exchange membrane fuel cells. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 504-514	11.3	20
74	Recent progresses in H <sub>2</sub> -PEMFC at DICP. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 36, 129-140	12	20
73	Influence of platinum dispersity on oxygen transport resistance and performance in PEMFC. <i>Electrochimica Acta</i> , <b>2020</b> , 332, 135474	6.7	19

72	Iridium-Tin oxide solid-solution nanocatalysts with enhanced activity and stability for oxygen evolution. <i>Journal of Power Sources</i> , <b>2016</b> , 325, 15-24	8.9	19
71	Preparation of hollow PtCu nanoparticles as high-performance electrocatalysts for oxygen reduction reaction in the absence of a surfactant. <i>RSC Advances</i> , <b>2016</b> , 6, 39993-40001	3.7	19
70	Nickel/cobalt oxide as a highly efficient OER electrocatalyst in an alkaline polymer electrolyte water electrolyzer. <i>RSC Advances</i> , <b>2016</b> , 6, 90397-90400	3.7	18
69	Effect of gas diffusion electrode parameters on anion exchange membrane fuel cell performance. <i>Chinese Journal of Catalysis</i> , <b>2014</b> , 35, 1091-1097	11.3	18
68	Effect of electrode Pt-loading and cathode flow-field plate type on the degradation of PEMFC. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 35, 95-103	12	16
67	PalladiumBickel catalysts based on ordered titanium dioxide nanorod arrays with high catalytic performance for formic acid electro-oxidation. <i>RSC Advances</i> , <b>2017</b> , 7, 11719-11723	3.7	15
66	A multi-scale hybrid degradation index for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , <b>2019</b> , 437, 226916	8.9	15
65	A novel porous sulfonated poly(ether ether ketone)-based multi-layer composite membrane for proton exchange membrane fuel cell application. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 1405-1413	5.8	15
64	Preparation and characterization of Ti <sub>0.7</sub> Sn <sub>0.3</sub> O <sub>2</sub> as catalyst support for oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , <b>2014</b> , 23, 331-337	12	14
63	Poly(ether sulfone)Sulfonated poly(ether ether ketone) blend ultrafiltration/nanofiltration-based proton-conductive membranes with improved performance for H <sub>2</sub> /Cl <sub>2</sub> fuel cell application. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 20512		14
62	Highly stable nanostructured membrane electrode assembly based on Pt/NbO nanobelts with reduced platinum loading for proton exchange membrane fuel cells. <i>Nanoscale</i> , <b>2017</b> , 9, 6910-6919	7.7	13
61	Facile synthesis of Pt-decorated Ir black as a bifunctional oxygen catalyst for oxygen reduction and evolution reactions. <i>Nanoscale</i> , <b>2019</b> , 11, 9091-9102	7.7	13
60	Improvement of PEMFC performance and endurance by employing continuous silica film incorporated water transport plate. <i>Electrochimica Acta</i> , <b>2016</b> , 191, 116-123	6.7	13
59	Improvement of the proton exchange membrane fuel cell (PEMFC) performance at low-humidity conditions by exposing anode in Ultraviolet light. <i>Electrochemistry Communications</i> , <b>2014</b> , 44, 16-18	5.1	13
58	Transient behavior of water generation in a proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , <b>2008</b> , 177, 404-411	8.9	13
57	Facile Synthesis of Nanoporous Pt-Encapsulated Ir Black as a Bifunctional Oxygen Catalyst via Modified Polyol Process at Room Temperature. <i>ChemElectroChem</i> , <b>2019</b> , 6, 3633-3643	4.3	12
56	A PtPdCu thin-film catalyst based on titanium nitride nanorod arrays with high catalytic performance for methanol electro-oxidation. <i>RSC Advances</i> , <b>2016</b> , 6, 82370-82375	3.7	12
55	Nonhumidified high temperature H <sub>2</sub> /Cl <sub>2</sub> fuel cells using protic ionic liquids. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 4423	13	12

54	DFT study of difference caused by catalyst supports in Pt and Pd catalysis of oxygen reduction reaction. <i>Science in China Series B: Chemistry</i> , <b>2009</b> , 52, 571-578		12
53	Properties and stability of quaternary ammonium-biphosphate ion-pair poly(sulfone)s high temperature proton exchange membranes for H <sub>2</sub> /O <sub>2</sub> fuel cells. <i>Journal of Power Sources</i> , <b>2020</b> , 475, 228521	8.9	12
52	Enhancing the Oxygen Reduction Reaction Performance by Modifying the Surface of Platinum Nanoparticles. <i>ChemElectroChem</i> , <b>2016</b> , 3, 309-317	4.3	12
51	Ionomer network of catalyst layers for proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230186	8.9	11
50	Proton exchange membrane fuel cell subzero start-up with hydrogen catalytic reaction assistance. <i>Journal of Power Sources</i> , <b>2019</b> , 429, 180-187	8.9	10
49	Fabrication of N1-butyl substituted 4,5-dimethyl-imidazole based crosslinked anion exchange membranes for fuel cells. <i>RSC Advances</i> , <b>2017</b> , 7, 52812-52821	3.7	10
48	An effective oxygen electrode based on Ir <sub>0.6</sub> Sn <sub>0.4</sub> O <sub>2</sub> for PEM water electrolyzers. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 39, 23-28	12	9
47	Hierarchical Ni <sub>3</sub> ZnN Hollow Microspheres as Stable Non-Noble Metal Electrocatalysts for Oxygen Reduction Reactions. <i>Electrocatalysis</i> , <b>2018</b> , 9, 452-458	2.7	9
46	Investigation of porous water transport plates used for the humidification of a membrane electrode assembly. <i>Journal of Power Sources</i> , <b>2016</b> , 302, 84-91	8.9	9
45	A novel ultra-thin catalyst layer based on wheat ear-like catalysts for polymer electrolyte membrane fuel cells. <i>RSC Advances</i> , <b>2014</b> , 4, 58591-58595	3.7	9
44	High performance cross-linked anion exchange membrane based on aryl-ether free polymer backbones for anion exchange membrane fuel cell application. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 4057-4066	5.8	9
43	Self-Sacrificial Template Synthesis of a Nitrogen-Doped Microstructured Carbon Tube as Electrocatalyst for Oxygen Reduction. <i>ChemElectroChem</i> , <b>2018</b> , 5, 3731-3740	4.3	9
42	Polybenzimidazole/cerium dioxide/graphitic carbon nitride nanosheets for high performance and durable high temperature proton exchange membranes. <i>Journal of Membrane Science</i> , <b>2021</b> , 639, 119760	8.6	9
41	Enhanced electrocatalytic performance of ultrathin PtNi alloy nanowires for oxygen reduction reaction. <i>Frontiers in Energy</i> , <b>2017</b> , 11, 260-267	2.6	8
40	Experimental study of the S-shaped flow fields in proton exchange membrane fuel cells. <i>Energy Conversion and Management</i> , <b>2020</b> , 223, 113292	10.6	8
39	Investigation of a Fe <sub>3</sub> C catalyst for sulfur dioxide electrooxidation. <i>RSC Advances</i> , <b>2016</b> , 6, 80024-80028	3.7	8
38	One-pot facile synthesis of PtCu coated nanoporous gold with unique catalytic activity toward the oxygen reduction reaction. <i>RSC Advances</i> , <b>2016</b> , 6, 40086-40089	3.7	8
37	Investigation of a High-Performance Nanofiber Cathode with Ultralow Platinum Loading for Proton Exchange Membrane Fuel Cells. <i>Energy Technology</i> , <b>2017</b> , 5, 1457-1463	3.5	7

36	Enhanced sulfur dioxide electrooxidation performance on a modified XC-72 carbon catalyst. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 3113-3120	2.6	7
35	Sub-freezing endurance of PEM fuel cells with different catalyst-coated membranes. <i>Journal of Applied Electrochemistry</i> , <b>2009</b> , 39, 609-615	2.6	7
34	Performance- and Durability-Enhanced Carbon-Skeleton Nanofiber Electrode with Pt <sub>3</sub> Co/C for PEMFCs. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 13030-13038	8.3	7
33	Low-Loading and Highly Stable Membrane Electrode Based on an Ir@WONR Ordered Array for PEM Water Electrolysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 15073-15082	9.5	7
32	A novel graphite/phenolic resin bipolar plate modified by doping carbon fibers for the application of proton exchange membrane fuel cells. <i>Progress in Natural Science: Materials International</i> , <b>2020</b> , 30, 876-881	3.6	6
31	Investigation of water transport in fuel cells using water transport plates and solid plates.. <i>RSC Advances</i> , <b>2018</b> , 8, 1503-1510	3.7	6
30	Preparation of PtRu/WO <sub>3</sub> by intermittent microwave method with enhanced catalytic activity of methanol oxidation. <i>Journal of Applied Electrochemistry</i> , <b>2016</b> , 46, 887-893	2.6	6
29	The non-precious metal ORR catalysts for the anion exchange membrane fuel cells application: A numerical simulation and experimental study. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 23353-23367 <sup>6</sup>	6.7	6
28	Free-standing and ionomer-free 3D platinum nanotrough fiber network electrode for proton exchange membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 298, 120504	21.8	6
27	High-Performance Low-Platinum Electrode for Proton Exchange Membrane Fuel Cells: Pulse Electrodeposition of Pt on Pd/C Nanofiber Mat. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1007-1010	4.3	5
26	Three-Dimensional Assembly of PtNi Alloy Nanosticks with Enhanced Electrocatalytic Activity and Ultrahigh Stability for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1436-1442	4.3	5
25	A new microporous layer material to improve the performance and durability of polymer electrolyte membrane fuel cells. <i>RSC Advances</i> , <b>2015</b> , 5, 104095-104100	3.7	5
24	A novel cathode architecture using Cu nanoneedle arrays as the cathode support for AAEMFC application. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14794-14800	13	4
23	Facile preparation of porefilled membranes based on poly(ionic liquid) with quaternary ammonium and tertiary amine head groups for AEMFCs. <i>Solid State Ionics</i> , <b>2019</b> , 338, 58-65	3.3	4
22	A robust esterified nanofibre electrode for proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 5298-5307	13	4
21	A Novel Cathode Architecture Using Ordered Pt Nanostructure Thin Film for AAEMFC Application. <i>Electrochimica Acta</i> , <b>2016</b> , 220, 67-74	6.7	4
20	Preparation and properties of amorphous TiO <sub>2</sub> modified anion exchange membrane by impregnation-hydrolysis method. <i>Reactive and Functional Polymers</i> , <b>2019</b> , 144, 104348	4.6	4
19	Nb <sub>2</sub> O <sub>5</sub> coated titanium as bipolar plates for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , <b>2022</b> , 520, 230797	8.9	4

18	A novel hydrophilic-modified gas diffusion layer for proton exchange membrane fuel cells operating in low humidification. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 16874-16883	4.5	4
17	Facile synthesis and electrocatalytic performance for oxygen reduction of boron-doped carbon catalysts on graphene sheets. <i>Fuel Cells</i> , <b>2021</b> , 21, 328	2.9	4
16	Tunable and convenient synthesis of highly dispersed Fe-N catalysts from graphene-supported Zn-Fe-ZIF for efficient oxygen reduction in acidic media.. <i>RSC Advances</i> , <b>2019</b> , 9, 42236-42244	3.7	4
15	Novel polybenzimidazole/graphitic carbon nitride nanosheets composite membrane for the application of acid-alkaline amphoteric water electrolysis. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 64, 607-614 <sup>12</sup>		4
14	Highly effective oxygen reduction activity and durability of antimony-doped tin oxide modified PtPd/C electrocatalysts. <i>RSC Advances</i> , <b>2015</b> , 5, 69479-69486	3.7	3
13	New insight into effect of potential on degradation of Fe-N-C catalyst for ORR. <i>Frontiers in Energy</i> , <b>2021</b> , 15, 421-430	2.6	2
12	Experimental study of key operating parameters effects on the characteristics of proton exchange membrane fuel cell with anode recirculation. <i>Energy Conversion and Management</i> , <b>2022</b> , 256, 115394	10.6	2
11	Ultra-thin h-BN doped high sulfonation sulfonated poly (ether-ether-ketone) of PTFE-reinforced proton exchange membrane. <i>Journal of Membrane Science</i> , <b>2021</b> , 644, 120099	9.6	1
10	Porous Pt-Ni Nanobelt Arrays with Superior Performance in H <sub>2</sub> /Air Atmosphere for Proton Exchange Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 10703-10712	6.1	1
9	Structural stability of catalyst ink and its effects on the catalyst layer microstructure and fuel cell performance. <i>Journal of Power Sources</i> , <b>2022</b> , 517, 230698	8.9	1
8	Altering membrane structure to enhance water permeability and performance of anion exchange membrane fuel cell. <i>Science China Technological Sciences</i> , <b>2021</b> , 64, 414-422	3.5	1
7	Experimental Study on Critical Membrane Water Content of Proton Exchange Membrane Fuel Cells for Cold Storage at 0 °C. <i>Energies</i> , <b>2021</b> , 14, 4520	3.1	1
6	Polyethersulfone/polyvinylpyrrolidone/boron nitride composite membranes for high proton conductivity and long-term stability high-temperature proton exchange membrane fuel cells. <i>Journal of Membrane Science</i> , <b>2022</b> , 653, 120512	9.6	1
5	Nanofiber-Based Oxygen Reduction Electrocatalysts with Improved Mass Transfer Kinetics in a Meso-Porous Structure and Enhanced Reaction Kinetics by Confined Fe and Fe <sub>3</sub> C Particles for Anion-Exchange Membrane Fuel Cells. <i>Energies</i> , <b>2022</b> , 15, 4029	3.1	1
4	Estimating the Remaining Useful Life of Proton Exchange Membrane Fuel Cells under Variable Loading Conditions Online. <i>Processes</i> , <b>2021</b> , 9, 1459	2.9	0
3	Boosting cell performance with self-supported PtCu nanotube arrays serving as the cathode in a proton exchange membrane fuel cell. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 3640-3646	5.8	
2	3D Pd/Co core-shell nanoneedle arrays as a high-performance cathode catalyst layer for AAEMFCs.. <i>RSC Advances</i> , <b>2018</b> , 8, 12887-12893	3.7	
1	TiO <sub>2</sub> supported IrO <sub>x</sub> for anode reversal tolerance in proton exchange membrane fuel cell. <i>Frontiers in Energy</i> , 1	2.6	



