

Haining Zhang

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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.

97
papers

3,041
citations

25
h-index

53
g-index

100
ext. papers

3,602
ext. citations

6.2
avg, IF

5.43
L-index

#	Paper	IF	Citations
97	From 3D ZIF Nanocrystals to CoNi _x /C Nanorod Array Electrocatalysts for ORR, OER, and ZnAir Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1704638	15.6	541
96	Multifunctional MoNi/C@MoS ₂ Electrocatalysts for HER, OER, ORR, and ZnAir Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1702300	15.6	519
95	Self-Organized 3D Porous Graphene Dual-Doped with Biomass-Sponsored Nitrogen and Sulfur for Oxygen Reduction and Evolution. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29408-29418	9.5	127
94	MoO ₃ - by plasma etching with improved capacity and stabilized structure for lithium storage. <i>Nano Energy</i> , 2018 , 49, 555-563	17.1	86
93	Swelling of Poly(methacrylic acid) Brushes: Influence of Monovalent Salts in the Environment. <i>Macromolecules</i> , 2005 , 38, 4855-4860	5.5	86
92	Self-Templating Synthesis of Hollow CoO Nanoparticles Embedded in N,S-Dual-Doped Reduced Graphene Oxide for Lithium Ion Batteries. <i>ACS Nano</i> , 2020 , 14, 5780-5787	16.7	82
91	Evaluation of 5 kW proton exchange membrane fuel cell stack operated at 95 °C under ambient pressure. <i>Journal of Power Sources</i> , 2013 , 222, 277-281	8.9	82
90	Self-assembled Nafion [®] /metal oxide nanoparticles hybrid proton exchange membranes. <i>Journal of Membrane Science</i> , 2010 , 347, 26-31	9.6	79
89	Enhancement in Proton Conductivity and Thermal Stability in Nafion Membranes Induced by Incorporation of Sulfonated Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14026-14035	9.5	75
88	Nafion [®] /zirconia nanocomposite membranes formed via in situ sol-gel process. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 2796-2801	6.7	73
87	Anhydrous elevated-temperature polymer electrolyte membranes based on ionic liquids. <i>Journal of Membrane Science</i> , 2011 , 366, 349-355	9.6	59
86	Cell adhesion and growth to Peptide-patterned supported lipid membranes. <i>Langmuir</i> , 2007 , 23, 3849-3854	4.4	59
85	Interaction of Strong Polyelectrolytes with Surface-Attached Polyelectrolyte Brushes Polymer Brushes as Substrates for the Layer-by-Layer Deposition of Polyelectrolytes. <i>Macromolecules</i> , 2003 , 36, 6593-6598	5.5	55
84	Preparation of W- and Mo-doped VO ₂ (M) by ethanol reduction of peroxovanadium complexes and their phase transition and optical switching properties. <i>Journal of Alloys and Compounds</i> , 2012 , 544, 30-36	5.7	50
83	Operation characteristics and carbon corrosion of PEMFC (Proton exchange membrane fuel cell) with dead-ended anode for high hydrogen utilization. <i>Energy</i> , 2015 , 91, 799-806	7.9	46
82	In situ measurement of temperature distribution in proton exchange membrane fuel cell in a hydrogen-air stack. <i>Journal of Power Sources</i> , 2013 , 227, 72-79	8.9	46
81	Comparison of degradation behaviors for open-ended and closed proton exchange membrane fuel cells during startup and shutdown cycles. <i>Journal of Power Sources</i> , 2011 , 196, 5077-5083	8.9	45

80	Toward Anhydrous Proton Conductivity Based on Imidazole Functionalized Mesoporous Silica/Nafion Composite Membranes. <i>Electrochimica Acta</i> , 2015 , 160, 185-194	6.7	44
79	Amine-functionalized poly(ionic liquid) brushes for carbon dioxide adsorption. <i>Chemical Engineering Journal</i> , 2017 , 316, 903-910	14.7	41
78	Positron annihilation characteristics, water uptake and proton conductivity of composite Nafion membranes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15953-15961	3.6	38
77	Phase Separation and Development of Proton Transport Pathways in Metal Oxide Nanoparticle/Nafion Composite Membranes during Water Uptake. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 9710-9717	3.8	31
76	Temperature and humidity effect on aging of silicone rubbers as sealing materials for proton exchange membrane fuel cell applications. <i>Applied Thermal Engineering</i> , 2016 , 104, 472-478	5.8	30
75	Effects of casting solvent on microstructure and ionic conductivity of anhydrous sulfonated poly(ether ether ketone)-ionic liquid composite membranes. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 748-754	6.7	28
74	Zeta potential of Nafion molecules in isopropanol-water mixture solvent. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 3306-3309	2.9	28
73	Thermal annealing on free volumes, crystallinity and proton conductivity of Nafion membranes. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 120, 71-78	3.9	27
72	Approaching high temperature performance for proton exchange membrane fuel cells with 3D ordered silica/Cs _{2.5} H _{0.5} PW electrolytes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 753-760	13	25
71	Degradation of silicone rubbers with different hardness in various aqueous solutions. <i>Polymer Degradation and Stability</i> , 2014 , 109, 122-128	4.7	25
70	Impregnation of amine-tailored titanate nanotubes in polymer electrolyte membranes. <i>Journal of Membrane Science</i> , 2012 , 423-424, 284-292	9.6	23
69	Polymer electrolyte membranes containing titanate nanotubes for elevated temperature fuel cells under low relative humidity. <i>Journal of Power Sources</i> , 2011 , 196, 8250-8256	8.9	23
68	Self-assembly of Nafion molecules onto silica nanoparticles formed in situ through sol-gel process. <i>Journal of Colloid and Interface Science</i> , 2008 , 326, 55-60	9.3	23
67	Zeolitic-imidazolate-framework-derived Co@Co ₃ O ₄ embedded into iron, nitrogen, sulfur Co-doped reduced graphene oxide as efficient electrocatalysts for overall water splitting and zinc-air batteries. <i>Electrochimica Acta</i> , 2019 , 323, 134821	6.7	22
66	Protic ionic liquid modified electrocatalyst enables robust anode under cell reversal condition. <i>Journal of Power Sources</i> , 2017 , 351, 138-144	8.9	21
65	Moisture dehumidification and its application to a 3kW proton exchange membrane fuel cell stack. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 1137-1144	6.7	21
64	Weak Polyelectrolyte Brushes as Substrates for the Formation of Surface-Attached Polyelectrolyte Complexes and Polyelectrolyte Multilayers. <i>Macromolecules</i> , 2005 , 38, 10743-10749	5.5	21
63	Solvent-Free cycloaddition of carbon dioxide and epichlorohydrin catalyzed by surface-attached imidazolium-type poly(ionic liquid) monolayers. <i>Journal of CO₂ Utilization</i> , 2020 , 38, 168-176	7.6	20

62	Impregnation of imidazole functionalized polyhedral oligomeric silsesquioxane in polymer electrolyte membrane for elevated temperature fuel cells. <i>RSC Advances</i> , 2013 , 3, 5438	3.7	20
61	Nafion [®] Titania nanocomposite proton exchange membranes. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 1186-1192	2.9	20
60	In situ growth of Co ₃ O ₄ on nitrogen-doped hollow carbon nanospheres as air electrode for lithium-air batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 944-953	5.7	20
59	Octa(aminophenyl)silsesquioxane derived nitrogen-doped well-defined nanoporous carbon materials: Synthesis and application for supercapacitors. <i>Electrochimica Acta</i> , 2016 , 194, 143-150	6.7	19
58	Anhydrous proton conducting materials based on sulfonated dimethylphenethylchlorosilane grafted mesoporous silica/ionic liquid composite. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11535-11543	9.5	19
57	Improving Oxygen Reduction Performance by Using Protic Poly(Ionic Liquid) as Proton Conductors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6111-6117	9.5	18
56	Nitrogen-doped porous carbon with interconnected tubular structure for supercapacitors operating at sub-ambient temperatures. <i>Chemical Engineering Journal</i> , 2020 , 401, 126083	14.7	17
55	Visible-light induced photocatalysis of AgCl@Ag/titanate nanotubes/nitrogen-doped reduced graphite oxide composites. <i>Applied Surface Science</i> , 2018 , 442, 547-555	6.7	17
54	Enhanced proton conductivity of polymer electrolyte membrane doped with titanate nanotubes. <i>Colloid and Polymer Science</i> , 2010 , 288, 1369-1374	2.4	16
53	Hydrogen permeation across super-thin membrane and the burning limitation in low-temperature proton exchange membrane fuel cell. <i>International Journal of Energy Research</i> , 2014 , 38, 1181-1191	4.5	15
52	In situ temperature measurement in a 5kW-class Proton Exchange Membrane Fuel Cell stack with pure oxygen as the oxidant. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 75, 231-234	4.9	15
51	Controllable synthesis and characterization of poly(aniline-co-pyrrole) using anionic spherical polyelectrolyte brushes as dopant and template. <i>Polymer Composites</i> , 2014 , 35, 1858-1863	3	15
50	Crosslinked poly(ethylene oxide)-based membrane electrolyte consisting of polyhedral oligomeric silsesquioxane nanocages for all-solid-state lithium ion batteries. <i>Journal of Power Sources</i> , 2020 , 449, 227541	8.9	15
49	UV-induced semi-interpenetrating polymer electrolyte membrane for elevated-temperature all-solid-state lithium-ion batteries. <i>Materials Chemistry and Physics</i> , 2019 , 236, 121781	4.4	13
48	Polyelectrolyte Multilayers on Weak Polyelectrolyte Brushes. <i>Macromolecular Rapid Communications</i> , 2003 , 24, 576-579	4.8	13
47	Porous structural effect of carbon electrode formed through one-pot strategy on performance of ionic liquid-based supercapacitors. <i>Chemical Engineering Journal</i> , 2021 , 411, 128573	14.7	12
46	Carbon-Covered Hollow Nitrogen-Doped Carbon Nanoparticles and Nitrogen-Doped Carbon-Covered Hollow Carbon Nanoparticles for Oxygen Reduction. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3487-3493	5.6	11
45	Self-Affine Surfaces of Polymer Brushes. <i>Macromolecules</i> , 2007 , 40, 6361-6369	5.5	10

44	The Counterion Effect of Imidazolium-Type Poly(ionic liquid) Brushes on Carbon Dioxide Adsorption. <i>ChemPlusChem</i> , 2019 , 84, 281-288	2.8	10
43	Facile Synthesis of Fe C@Graphene Hybrid Nanorods as an Efficient and Robust Catalyst for Oxygen Reduction Reaction. <i>ChemPlusChem</i> , 2016 , 81, 646-651	2.8	9
42	Proton conduction of polyAMPS brushes on titanate nanotubes. <i>Scientific Reports</i> , 2014 , 4, 6225	4.9	8
41	Trace Iron-Decorated Nitrogen/Sulfur Co-Doped Hierarchically Porous Carbon for Oxygen Reduction and LithiumSulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2719-2726	6.1	8
40	Polyelectrolyte-Brush-Derived Nitrogen-Doped Porous Carbon. <i>ChemNanoMat</i> , 2016 , 2, 1028-1032	3.5	8
39	Binding of streptavidin to surface-attached biotin with different spacer thicknesses. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015 , 30, 1304-1309	1	7
38	Circularly polarized light modulated supramolecular self-assembly for an azobenzene-based chiral gel.. <i>RSC Advances</i> , 2019 , 9, 10360-10363	3.7	6
37	Grafting distance and molecular weight dependent proton conduction of polymer electrolyte brushes. <i>European Polymer Journal</i> , 2015 , 64, 93-100	5.2	6
36	Fabrication of nitrogen-doped hollow carbon nanospheres with variable nitrogen contents using mixed polymer brushes as precursors. <i>Journal of Materials Science</i> , 2019 , 54, 8121-8132	4.3	5
35	Poly(ionic liquid)-Modified Metal Organic Framework for Carbon Dioxide Adsorption. <i>Polymers</i> , 2020 , 12,	4.5	5
34	Nitrogen-doped porous carbon derived from imidazole-functionalized polyhedral oligomeric silsesquioxane. <i>Journal of Materials Science</i> , 2018 , 53, 456-465	4.3	5
33	Decorating titanate nanotubes with protonated 1,2,4-triazole moieties for anhydrous proton conduction. <i>Journal of Colloid and Interface Science</i> , 2014 , 432, 26-30	9.3	5
32	Immobilization of imidazole in polymer electrolyte membranes for elevated temperature anhydrous applications. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 382-387	2.9	5
31	Surface fluctuations of polymer brushes probed by diffuse X-ray scattering. <i>Polymer</i> , 2005 , 46, 2331-2333	3.9	5
30	Protic ionic liquid-grafted polybenzimidazole as proton conducting catalyst binder for high-temperature proton exchange membrane fuel cells. <i>Polymer Testing</i> , 2021 , 96, 107066	4.5	5
29	Immobilization of imidazole moieties in polymer electrolyte composite membrane for elevated temperature fuel cells. <i>Journal of Power Sources</i> , 2015 , 298, 68-73	8.9	4
28	Platinum nanoparticles on defect-rich nitrogen-doped hollow carbon as an efficient electrocatalyst for hydrogen evolution reactions.. <i>RSC Advances</i> , 2020 , 10, 930-937	3.7	4
27	Highly Reduced Graphene Assembly Film as Current Collector for Lithium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8635-8641	8.3	4

26	Unpredictable adsorption and visible light induced decolorization of nano rutile for the treatment of crystal violet. <i>Solid State Sciences</i> , 2017 , 66, 1-6	3.4	3
25	Titanate nanotube array membranes filled with polyelectrolyte brushes for proton conduction. <i>European Polymer Journal</i> , 2017 , 88, 183-190	5.2	3
24	Surface attachment of protonated polyimidazolium monolayer on titanate nanotubes as a novel proton conductor. <i>Journal of Materials Science</i> , 2018 , 53, 15784-15794	4.3	3
23	EX SITU DEGRADATION OF SILICONE RUBBERS WITH DIFFERENT HARDNESS IN A CATHODE OUTLET SOLUTION OF PEMFC. <i>Rubber Chemistry and Technology</i> , 2015 , 88, 475-481	1.7	3
22	Polymer network-derived nitrogen/sulphur co-doped three-dimensionally interconnected hierarchically porous carbon for oxygen reduction, lithium-ion battery, and supercapacitor.. <i>RSC Advances</i> , 2019 , 9, 36570-36577	3.7	3
21	Self-Assembly-Cooperating in Situ Construction of MXene/TeO ₂ as Hybrid Membrane Coating for Durable and High-Performance Proton Exchange Membrane Fuel Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 4269-4278	8.3	3
20	Hollow-Co ₃ O ₄ @CoP/NS-RGO Heterojunction Structure Derived from ZIF-67 Promotes Hydrogen Evolution Reaction and Oxygen Evolution Reaction Bifunctional Catalysis. <i>Energy & Fuels</i> ,	4.1	3
19	Alkali-free quaternized polybenzimidazole membranes with high phosphoric acid retention ability for high temperature proton exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2022 , 650, 120442	9.6	3
18	Cobalt doped titanate nanotubes: Synthesis and properties. <i>Wuhan University Journal of Natural Sciences</i> , 2017 , 22, 201-206	0.4	2
17	Polymer substrates as a medium for motion of nano objects 2003 ,		2
16	2-Substituted imidazole derivatives doped Nafion membrane for high temperature anhydrous application and their performance. <i>Scientia Sinica Chimica</i> , 2011 , 41, 1840-1847	1.6	2
15	Magnetic aligned sulfonated carbon nanotube/Nafion composite membranes with anisotropic mechanical and proton conductive properties. <i>Journal of Materials Science</i> , 2021 , 56, 6764-6779	4.3	2
14	One-step synthesis of heterostructured cobalt-iron selenide as bifunctional catalyst for overall water splitting. <i>Materials Chemistry and Physics</i> , 2022 , 275, 125201	4.4	2
13	The design of single iron atoms dispersed with nitrogen coordination environment electrocatalyst for zinc -air battery. <i>Journal of Power Sources</i> , 2022 , 529, 231174	8.9	2
12	Nitrogen and Sulfur CoDoped Hollow Carbon Nanospheres Derived from Surface-Attached Polyelectrolyte Monolayers. <i>ChemistrySelect</i> , 2018 , 3, 3006-3013	1.8	1
11	Adsorption of poly(L-lysine) on surface-attached poly(methacrylic acid) monolayers. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016 , 31, 1298-1301	1	1
10	Differentiation of Chemisorption and Physisorption of Carbon Dioxide on Imidazolium-type Poly(ionic liquid) Brushes. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2020 , 35, 750-757	1	1
9	Degradation of Silicone Rubbers in Fenton's Reagents. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018 , 33, 793-796	1	1

8	Three dimension Ni/Co-decorated N-doped hierarchically porous carbon derived from metal-organic frameworks as trifunctional catalysts for Zn-air battery and microbial fuel cells. <i>Electrochimica Acta</i> , 2021 , 395, 139074	6.7	1
7	Optimizing porous structure of carbon electrodes for temperature-independent capacitance at sub-zero temperatures. <i>Chemical Engineering Journal</i> , 2022 , 441, 136053	14.7	1
6	Growth of branched heterostructure of nickel and iron phosphides on carbon cloth as electrode for hydrogen evolution reaction under wide pH ranges. <i>Journal of Solid State Electrochemistry</i> , 2022 , 26, 875	2.6	0
5	Effect of Outer Carbon Layer Thickness of Carbon-covered N-doped Hollow Carbon Nanospheres on Its Electrocatalytic Performance. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2021 , 36, 166-173	1	0
4	Surface-Grafted Poly(ionic liquid) that Lubricates in Both Non-polar and Polar Solvents. <i>ACS Macro Letters</i> , 2021 , 10, 907-913	6.6	0
3	Incorporation of Poly(Ionic Liquid) with PVDF-HFP-Based Polymer Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>Polymers</i> , 2022 , 14, 1950	4.5	0
2	Nitrogen-doped porous carbon derived from surface-attached polymer layers for oxygen reduction reaction under acidic conditions. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017 , 32, 1287-1292	1	
1	Weak Polyelectrolyte Brushes: Complex Formation and Multilayer Build-up with Oppositely Charged Polyelectrolytes 2005 , 249-272		