

# Zhiming Cui

## 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.

102  
papers

6,977  
citations

49  
h-index

82  
g-index

107  
ext. papers

8,001  
ext. citations

10  
avg, IF

6.16  
L-index

#	Paper	IF	Citations
102	Construction of Ti4O7/TiN/carbon microdisk sulfur host with strong polar N  i   bond for ultralong life lithium-sulfur battery. <i>Energy Storage Materials</i> , <b>2022</b> , 44, 180-189	19.4	16
101	Co N-Decorated 3D Wood-Derived Carbon Host Enables Enhanced Cathodic Electrocatalysis and Homogeneous Lithium Deposition for Lithium-Sulfur Full Cells. <i>Small</i> , <b>2021</b> , e2105664	11	3
100	Recent Advances and Perspectives in Lithium-Sulfur Pouch Cells. <i>Molecules</i> , <b>2021</b> , 26,	4.8	1
99	Encapsulation of ultrafine Pd nanoparticles within the shallow layers of UiO-67 for highly efficient hydrogenation reactions. <i>Science China Chemistry</i> , <b>2021</b> , 64, 109-115	7.9	5
98	Strategies to enhance the electrochemical performances of Pt-based intermetallic catalysts. <i>Chemical Communications</i> , <b>2021</b> , 57, 11-26	5.8	5
97	Fluorination activates the basal plane HER activity of ReS2: a combined experimental and theoretical study. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14451-14458	13	6
96	Robust InNCo3  Mnx Nitride-Supported Pt Nanoparticles as High-Performance Bifunctional Electrocatalysts for Zn  Air Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5293-5300	6.1	8
95	Composition-Tunable Antiperovskite Cu In NNi as Superior Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 17488-17493	16.4	15
94	Mesoporous carbon confined intermetallic nanoparticles as highly durable electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15822-15828	13	28
93	General Strategy for Synthesis of Ordered Pt3M Intermetallics with Ultrasmall Particle Size. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 7931-7937	3.6	15
92	In Situ Formation of Li3P Layer Enables Fast Li+ Conduction across Li/Solid Polymer Electrolyte Interface. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000831	15.6	38
91	N, S-codoped CNTs supported CoS nanoparticles prepared by using CdS nanorods as sulfur sources and hard templates: An efficient catalyst for reversible oxygen electrocatalysis. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 560, 186-197	9.3	27
90	Composition-Tunable Antiperovskite CuxIn1  NNi3 as Superior Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 17641-17646	3.6	3
89	Recent advances in nanostructured transition metal nitrides for fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20803-20818	13	14
88	General Strategy for Synthesis of Ordered Pt M Intermetallics with Ultrasmall Particle Size. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 7857-7863	16.4	51
87	Antiperovskite Nitrides CuNCoV: Highly Efficient and Durable Electrocatalysts for the Oxygen-Evolution Reaction. <i>Nano Letters</i> , <b>2019</b> , 19, 7457-7463	11.5	37
86	g-C3N4 promoted MOF derived hollow carbon nanopolyhedra doped with high density/fraction of single Fe atoms as an ultra-high performance non-precious catalyst towards acidic ORR and PEM fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 5020-5030	13	102

85	Dendrite-Free Composite Li Anode Assisted by Ag Nanoparticles in a Wood-Derived Carbon Frame. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 18361-18367	9.5	23
84	Surface confinement assisted synthesis of nitrogen-rich hollow carbon cages with Co nanoparticles as breathable electrodes for Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 254, 55-65	21.8	63
83	Exceptional oxygen evolution reactivities on CaCoO and SrCoO. <i>Science Advances</i> , <b>2019</b> , 5, eaav6262	14.3	89
82	Cu(II) Ions Induced Structural Transformation of Cobalt Selenides for Remarkable Enhancement in Oxygen/Hydrogen Electrocatalysis. <i>ACS Catalysis</i> , <b>2019</b> , 9, 10761-10772	13.1	66
81	Atomic Fe-Doped MOF-Derived Carbon Polyhedrons with High Active-Center Density and Ultra-High Performance toward PEM Fuel Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1802856	21.8	142
80	UIO-66-NH <sub>2</sub> -Derived Mesoporous Carbon Catalyst Co-Doped with Fe/N/S as Highly Efficient Cathode Catalyst for PEMFCs. <i>Small</i> , <b>2019</b> , 15, e1803520	11	47
79	Twisted palladium-copper nanochains toward efficient electrocatalytic oxidation of formic acid. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 537, 366-374	9.3	55
78	Structurally Ordered Fe <sub>3</sub> Pt Nanoparticles on Robust Nitride Support as a High Performance Catalyst for the Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803040	21.8	68
77	Garnet Electrolyte with an Ultralow Interfacial Resistance for Li-Metal Batteries. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 6448-6455	16.4	295
76	Nitrogen-Doped Perovskite as a Bifunctional Cathode Catalyst for Rechargeable Lithium-Oxygen Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 5543-5550	9.5	74
75	A simple LC-MS/MS method for determination of deferasirox in human plasma: Troubleshooting of interference from ferric ion in method development and its application. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 151, 145-150	3.5	11
74	Enhanced cyclability of Li-O <sub>2</sub> batteries with cathodes of Ir and MnO <sub>2</sub> supported on well-defined TiN arrays. <i>Nanoscale</i> , <b>2018</b> , 10, 2983-2989	7.7	35
73	Polymer lithium-garnet interphase for an all-solid-state rechargeable battery. <i>Nano Energy</i> , <b>2018</b> , 53, 926-931	17.1	69
72	A renewable wood-derived cathode for LiO <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 14291-14298	14.5	24
71	Photocatalytic CO Reduction by Carbon-Coated Indium-Oxide Nanobelts. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 4123-4129	16.4	291
70	Hierarchically mesoporous nickel-iron nitride as a cost-efficient and highly durable electrocatalyst for Zn-air battery. <i>Nano Energy</i> , <b>2017</b> , 39, 77-85	17.1	172
69	Robust Fe Mo C Supported IrMn Clusters as Highly Efficient Bifunctional Air Electrode for Metal-Air Battery. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702385	24	79
68	Ni <sub>3</sub> FeN-Supported Fe <sub>3</sub> Pt Intermetallic Nanoalloy as a High-Performance Bifunctional Catalyst for Metal-Air Batteries. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 10033-10037	3.6	21

67	Ni FeN-Supported Fe Pt Intermetallic Nanoalloy as a High-Performance Bifunctional Catalyst for Metal-Air Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 9901-9905	16.4	133
66	Ni <sub>3</sub> Fe-N Doped Carbon Sheets as a Bifunctional Electrocatalyst for Air Cathodes. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601172	21.8	305
65	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9965-8	16.4	155
64	NaMV(PO) (M = Mn, Fe, Ni) Structure and Properties for Sodium Extraction. <i>Nano Letters</i> , <b>2016</b> , 16, 7836-7841	16.5	146
63	Mastering the interface for advanced all-solid-state lithium rechargeable batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 13313-13317	11.5	193
62	High-Performance Pd <sub>3</sub> Pb Intermetallic Catalyst for Electrochemical Oxygen Reduction. <i>Nano Letters</i> , <b>2016</b> , 16, 2560-6	11.5	114
61	Mesoporous Titanium Nitride-Enabled Highly Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2016</b> , 28, 6926-31	24	459
60	Catalytic activities for methanol oxidation on ultrathin CuPt wavy nanowires with/without smart polymer. <i>Chemical Science</i> , <b>2016</b> , 7, 5414-5420	9.4	65
59	Controllably self-assembled graphene-supported Au@Pt bimetallic nanodendrites as superior electrocatalysts for methanol oxidation in direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7352-7364	13	51
58	Novel Hydrogel-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Air Cathodes. <i>Nano Letters</i> , <b>2016</b> , 16, 6516-6522	11.5	192
57	Structurally Ordered Pt <sub>3</sub> Cr as Oxygen Reduction Electrocatalyst: Ordering Control and Origin of Enhanced Stability. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 7538-7545	9.6	75
56	Enhanced cycling stability of hybrid Li-air batteries enabled by ordered Pd <sub>3</sub> Fe intermetallic electrocatalyst. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7278-81	16.4	128
55	Experimental Synthesis and Properties of Metastable CuNbN <sub>2</sub> and Theoretical Extension to Other Ternary Copper Nitrides. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4970-4977	9.6	44
54	Synthesis of structurally ordered Pt <sub>3</sub> Ti and Pt <sub>3</sub> V nanoparticles as methanol oxidation catalysts. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 10206-9	16.4	154
53	Mesoporous Ti(0.5)Cr(0.5)N supported PdAg nanoalloy as highly active and stable catalysts for the electro-oxidation of formic acid and methanol. <i>ACS Nano</i> , <b>2014</b> , 8, 6106-13	16.7	75
52	Mesoporous TiN as a noncarbon support of Ag-rich PtAg nanoalloy catalysts for oxygen reduction reaction in alkaline media. <i>ChemSusChem</i> , <b>2014</b> , 7, 3356-61	8.3	17
51	Amylopectin wrapped graphene oxide/sulfur for improved cyclability of lithium-sulfur battery. <i>ACS Nano</i> , <b>2013</b> , 7, 8801-8	16.7	167
50	Mo <sub>2</sub> N/C hybrid material as a promising support for the electro-oxidation of methanol and formic acid. <i>Electrochemistry Communications</i> , <b>2013</b> , 33, 63-67	5.1	19

49	Template-mediated growth of microsphere, microbelt and nanorod $\beta$ -MoO <sub>3</sub> structures and their high pseudo-capacitances. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12926	13	43
48	Mesoporous chromium nitride as a high performance non-carbon support for the oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 7041-4	3.6	40
47	Mo <sub>2</sub> C/CNTs supported Pd nanoparticles for highly efficient catalyst towards formic acid electrooxidation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1179-1184	13	39
46	Self-assembled phosphomolybdic acid/polyaniline/graphene composite-supported efficient catalyst towards methanol oxidation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6687	13	37
45	Mesoporous titanium nitride supported Pt nanoparticles as high performance catalysts for methanol electrooxidation. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 1088-92	3.6	66
44	Mesoporous Ti <sub>0.5</sub> Nb <sub>0.5</sub> N Ternary Nitride as a Novel Noncarbon Support for Oxygen Reduction Reaction in Acid and Alkaline Electrolytes. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3782-3784	9.6	60
43	DNA-directed growth of Pd nanocrystals on carbon nanotubes towards efficient oxygen reduction reactions. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 15693-8	4.8	49
42	Protein-Directed In Situ Synthesis of Gold Nanoparticles on Reduced Graphene Oxide Modified Electrode for Nonenzymatic Glucose Sensing. <i>Electroanalysis</i> , <b>2012</b> , 24, 2348-2353	3	16
41	In situ synthesized heteropoly acid/polyaniline/graphene nanocomposites to simultaneously boost both double layer- and pseudo-capacitance for supercapacitors. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 12823-8	3.6	64
40	One-step and high yield simultaneous preparation of single- and multi-layer graphene quantum dots from CX-72 carbon black. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 8764		466
39	Mesoporous vanadium nitride as a high performance catalyst support for formic acid electrooxidation. <i>Chemical Communications</i> , <b>2012</b> , 48, 10502-4	5.8	41
38	PtRu catalysts supported on heteropolyacid and chitosan functionalized carbon nanotubes for methanol oxidation reaction of fuel cells. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 16349-57	3.6	66
37	Highly dispersed MoO(x) on carbon nanotube as support for high performance Pt catalyst towards methanol oxidation. <i>Chemical Communications</i> , <b>2011</b> , 47, 8418-20	5.8	52
36	Dual-signal fenamithion probe by combining fluorescence with colorimetry based on Rhodamine B modified silver nanoparticles. <i>Analyst, The</i> , <b>2011</b> , 136, 1351-6	5	30
35	The enhancement effect of MoOx on Pd/C catalyst for the electrooxidation of formic acid. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 2051-2056	6.7	38
34	Pd nanoparticles supported on HPMo-PDDA-MWCNT and their activity for formic acid oxidation reaction of fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 8508-8517	6.7	82
33	Pt nanoparticles supported on WO <sub>3</sub> /C hybrid materials and their electrocatalytic activity for methanol electro-oxidation. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 2621-2626	8.9	59
32	High activity of Pd/WO <sub>3</sub> /C catalyst as anodic catalyst for direct formic acid fuel cell. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 2469-2474	8.9	59

31	Synthesis and characterization of H5PMo10V2O40 deposited Pt/C nanocatalysts for methanol electrooxidation. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 1619-1623	8.9	24
30	Proton conductivity enhancement by nanostructural control of sulphonated poly (ether ether ketone) membranes. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 8337-8342	6.7	11
29	Sulphonated Tetramethyl Poly(ether ether ketone)/Epoxy/Sulphonated Phenol Novolac Semi-IPN Membranes for Direct Methanol Fuel Cells. <i>Fuel Cells</i> , <b>2009</b> , 9, 570-578	2.9	4
28	Sulfonated poly(ether ether ketone)/epoxy/phenol novolac blend proton-exchange membranes with low methanol permeability. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 111, 1335-1343	2.9	8
27	Novel sulfonated poly(arylene ether ketone) copolymers bearing carboxylic or benzimidazole pendant groups for proton exchange membranes. <i>Journal of Power Sources</i> , <b>2009</b> , 193, 507-514	8.9	49
26	Highly conductive, methanol resistant fuel cell membranes fabricated by layer-by-layer self-assembly of inorganic heteropolyacid. <i>Journal of Power Sources</i> , <b>2009</b> , 194, 168-174	8.9	53
25	Implantation of Nafion <sup>®</sup> ionomer into polyvinyl alcohol/chitosan composites to form novel proton-conducting membranes for direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2009</b> , 194, 730-738	8.9	36
24	Naphthalene-based poly(arylene ether ketone) copolymers containing sulfobutyl pendant groups for proton exchange membranes. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 5772-5783	2.5	60
23	Synthesis and properties of water stable poly[bis(benzimidazobenzisoquinolinone)] ionomers for proton exchange membranes fuel cells. <i>Journal of Membrane Science</i> , <b>2009</b> , 326, 420-428	9.6	7
22	High proton conductive advanced hybrid membrane based on sulfonated Si-SBA-15. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 6740-6748	6.7	23
21	Blends based on sulfonated poly[bis(benzimidazobenzisoquinolinones)] and poly(vinylidene fluoride) for polymer electrolyte membrane fuel cell. <i>Journal of Membrane Science</i> , <b>2009</b> , 341, 155-162	9.6	14
20	Synthesis and property of a novel sulfonated poly(ether ether ketone) with high selectivity for direct methanol fuel cell applications. <i>Journal of Membrane Science</i> , <b>2009</b> , 343, 164-170	9.6	45
19	Novel hydrophilic/hydrophobic multiblock copolyimides as proton exchange membranes: Enhancing the proton conductivity. <i>Polymer</i> , <b>2009</b> , 50, 4505-4511	3.9	36
18	Chitosan/heteropolyacid composite membranes for direct methanol fuel cell. <i>Journal of Power Sources</i> , <b>2009</b> , 188, 24-29	8.9	110
17	Synthesis and characterization of novel sulfonated poly(arylene ether ketone) copolymers with pendant carboxylic acid groups for proton exchange membranes. <i>Journal of Power Sources</i> , <b>2009</b> , 191, 253-258	8.9	32
16	Sulfonated poly(arylene-co-imide)s as water stable proton exchange membrane materials for fuel cells. <i>Journal of Membrane Science</i> , <b>2008</b> , 315, 172-179	9.6	32
15	Synthesis and properties of novel polyimides from sulfonated binaphthalene dianhydride for proton exchange membranes. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 2820-2832	2.5	56
14	Synthesis of sulfonated poly(arylene-co-naphthalimide)s as novel polymers for proton exchange membranes. <i>Polymer</i> , <b>2008</b> , 49, 3272-3278	3.9	14

13	Novel acidBase polyimides synthesized from binaphthalene dianhydride and triphenylamine-containing diamine as proton exchange membranes. <i>Journal of Membrane Science</i> , <b>2008</b> , 314, 24-32	9.6	44
12	Sulfonated poly(ether ether ketone)/clay-SO <sub>3</sub> H hybrid proton exchange membranes for direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 32-39	8.9	69
11	Pd nanoparticles supported on WO <sub>3</sub> /C hybrid material as catalyst for oxygen reduction reaction. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 941-945	8.9	43
10	Highly active PtRu catalysts supported on carbon nanotubes prepared by modified impregnation method for methanol electro-oxidation. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 7807-7811	6.7	64
9	Sulfonated poly(ether ether ketone)/aminopropyltriethoxysilane/phosphotungstic acid hybrid membranes with non-covalent bond: Characterization, thermal stability, and proton conductivity. <i>Solid State Ionics</i> , <b>2008</b> , 179, 2265-2273	3.3	29
8	Synthesis and characterization of rigid-rod sulfonated polyimides bearing sulfobenzoyl side groups as proton exchange membranes. <i>Journal of Membrane Science</i> , <b>2007</b> , 295, 148-158	9.6	36
7	Polyelectrolyte complexes of chitosan and phosphotungstic acid as proton-conducting membranes for direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2007</b> , 167, 94-99	8.9	83
6	Surface-modified Nafion <sup>®</sup> membrane by casting proton-conducting polyelectrolyte complexes for direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2007</b> , 173, 162-165	8.9	14
5	Synthesis and characterization of novel sulfonated polyimides from 1,4-bis(4-aminophenoxy)-naphthyl-2,7-disulfonic acid. <i>Polymer</i> , <b>2007</b> , 48, 2280-2287	3.9	33
4	Sulfonated polyimides bearing benzimidazole groups for proton exchange membranes. <i>Polymer</i> , <b>2007</b> , 48, 7255-7263	3.9	60
3	Synthesis and properties of novel sulfonated polyimides containing binaphthyl groups as proton-exchange membranes for fuel cells. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 222-231	2.5	33
2	Preparation and evaluation of a proton exchange membrane based on oxidation and water stable sulfonated polyimides. <i>Journal of Power Sources</i> , <b>2007</b> , 172, 511-519	8.9	51
1	Atomically-dispersed NiN <sub>4</sub> active sites with axial Ni coordination for accelerating electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> ,	13	4