

Maochun Wu

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.

66

papers

2,176

citations

24

h-index

45

g-index

67

ext. papers

2,926

ext. citations

9.8

avg, IF

5.69

L-index

#	Paper	IF	Citations
66	A Janus-faced, perovskite nanofiber framework reinforced composite electrolyte for high-voltage solid lithium-metal batteries. <i>Journal of Power Sources</i> , 2022 , 526, 231172	8.9	0
65	A High-Capacity Polyethylene Oxide-Based All-Solid-State Battery Using a Metal-Organic Framework Hosted Silicon Anode. <i>ACS Applied Materials & Interfaces</i> , 2022 , 14, 24798-24805	9.5	1
64	In-situ forming lithiophilic-lithiophobic gradient interphases for dendrite-free all-solid-state Li metal batteries. <i>Nano Energy</i> , 2022 , 99, 107395	17.1	1
63	A Highly Reversible Zinc Anode for Rechargeable Aqueous Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	3
62	Chloride ions as an electrolyte additive for high performance vanadium redox flow batteries. <i>Applied Energy</i> , 2021 , 289, 116690	10.7	7
61	A High-Capacity, Long-Cycling All-Solid-State Lithium Battery Enabled by Integrated Cathode/Ultrathin Solid Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2101612	21.8	13
60	A Li-S battery with ultrahigh cycling stability and enhanced rate capability based on novel ZnO yolk-shell sulfur host. <i>Journal of Energy Chemistry</i> , 2021 , 55, 136-144	12	18
59	A trifunctional electrolyte for high-performance zinc-iodine flow batteries. <i>Journal of Power Sources</i> , 2021 , 484, 229238	8.9	11
58	A hybrid battery thermal management system for electric vehicles under dynamic working conditions. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 164, 120528	4.9	18
57	A composite solid electrolyte with an asymmetric ceramic framework for dendrite-free all-solid-state Li metal batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9665-9674	13	6
56	2D Ti C T MXenes: Visible Black but Infrared White Materials. <i>Advanced Materials</i> , 2021 , 33, e2103054	24	16
55	A high-performance lithiated silicon-sulfur battery with pomegranate-structured electrodes. <i>Journal of Power Sources</i> , 2021 , 506, 230174	8.9	4
54	A convection-enhanced flow field for aqueous redox flow batteries. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 179, 121747	4.9	0
53	A 3D electrochemical-thermal coupled model for electrochemical and thermal analysis of pouch-type lithium-ion batteries. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 181, 121855	4.9	6
52	A hierarchical porous tin host for dendrite-free, highly reversible zinc anodes. <i>Chemical Engineering Journal</i> , 2021 , 425, 130643	14.7	11
51	Advances in thermal management systems for next-generation power batteries. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 181, 121853	4.9	17
50	Enabling Solid-State Li Metal Batteries by In Situ Forming Ionogel Interlayers. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5712-5721	6.1	12

49	Aligned hierarchical electrodes for high-performance aqueous redox flow battery. <i>Applied Energy</i> , 2020 , 271, 115235	10.7	14
48	A composite solid electrolyte with a framework of vertically aligned perovskite for all-solid-state Li-metal batteries. <i>Journal of Membrane Science</i> , 2020 , 610, 118265	9.6	17
47	A novel electrode formed with electrospun nano- and micro-scale carbon fibers for aqueous redox flow batteries. <i>Journal of Power Sources</i> , 2020 , 470, 228441	8.9	9
46	A long-life LiS battery enabled by a cathode made of well-distributed B ₄ C nanoparticles decorated activated cotton fibers. <i>Journal of Power Sources</i> , 2020 , 451, 227751	8.9	12
45	An energy-dense, flowable suspension of hollow carbon nanoshell-hosted sulfur as an electroactive material for flow batteries. <i>Journal of Power Sources</i> , 2020 , 478, 228750	8.9	2
44	Enhanced cycle life of vanadium redox flow battery via a capacity and energy efficiency recovery method. <i>Journal of Power Sources</i> , 2020 , 478, 228725	8.9	17
43	An ultrathin, strong, flexible composite solid electrolyte for high-voltage lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18802-18809	13	25
42	A dendrite-free zinc anode for rechargeable aqueous batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20175-20184	13	33
41	A high power density and long cycle life vanadium redox flow battery. <i>Energy Storage Materials</i> , 2020 , 24, 529-540	19.4	103
40	Seawater as an alternative to deionized water for electrolyte preparations in vanadium redox flow batteries. <i>Applied Energy</i> , 2019 , 251, 113344	10.7	14
39	N-doped graphene nanoplatelets as a highly active catalyst for Br ₂ /Br ⁻ redox reactions in zinc-bromine flow batteries. <i>Electrochimica Acta</i> , 2019 , 318, 69-75	6.7	17
38	Ultra-stable lithium plating/stripping in garnet-based lithium-metal batteries enabled by a SnO ₂ nanolayer. <i>Journal of Power Sources</i> , 2019 , 433, 226691	8.9	24
37	An aqueous manganese-copper battery for large-scale energy storage applications. <i>Journal of Power Sources</i> , 2019 , 423, 203-210	8.9	27
36	A uniformly distributed bismuth nanoparticle-modified carbon cloth electrode for vanadium redox flow batteries. <i>Applied Energy</i> , 2019 , 240, 226-235	10.7	41
35	Facile Surface Modification Method To Achieve an Ultralow Interfacial Resistance in Garnet-Based Li Metal Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6332-6340	6.1	13
34	Atomically dispersed Fe ^N x active sites within hierarchical mesoporous carbon as efficient electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20132-20138	13	25
33	Investigation of an aqueous rechargeable battery consisting of manganese tin redox chemistries for energy storage. <i>Journal of Power Sources</i> , 2019 , 437, 226918	8.9	8
32	Superior cycling life of LiS batteries with high sulfur loading enabled by a bifunctional layered-MoO ₃ cathode. <i>Journal of Power Sources</i> , 2019 , 436, 226840	8.9	18

31	Artificial Bifunctional Protective layer Composed of Carbon Nitride Nanosheets for High Performance LithiumSulfur Batteries. <i>Journal of Energy Storage</i> , 2019 , 26, 101006	7.8	12
30	Mesoporous carbon derived from pomelo peel as a high-performance electrode material for zinc-bromine flow batteries. <i>Journal of Power Sources</i> , 2019 , 442, 227255	8.9	24
29	Polyoxyethylene (PEO) PEO-Perovskite PEO Composite Electrolyte for All-Solid-State Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46930-46937	9.5	53
28	A bi-porous graphite felt electrode with enhanced surface area and catalytic activity for vanadium redox flow batteries. <i>Applied Energy</i> , 2019 , 233-234, 105-113	10.7	22
27	V2O5-NiO composite nanowires: A novel and highly efficient carbon-free electrode for non-aqueous Li-air batteries operated in ambient air. <i>Journal of Power Sources</i> , 2019 , 409, 76-85	8.9	28
26	Anion exchange membranes for aqueous acid-based redox flow batteries: Current status and challenges. <i>Applied Energy</i> , 2019 , 233-234, 622-643	10.7	60
25	An aqueous alkaline battery consisting of inexpensive all-iron redox chemistries for large-scale energy storage. <i>Applied Energy</i> , 2018 , 215, 98-105	10.7	26
24	Towards a uniform distribution of zinc in the negative electrode for zinc bromine flow batteries. <i>Applied Energy</i> , 2018 , 213, 366-374	10.7	56
23	Mesoporous ultrafine Ta2O5 nanoparticle with abundant oxygen vacancies as a novel and efficient catalyst for non-aqueous Li-O2 batteries. <i>Electrochimica Acta</i> , 2018 , 271, 232-241	6.7	15
22	Improved electrolyte for zinc-bromine flow batteries. <i>Journal of Power Sources</i> , 2018 , 384, 232-239	8.9	63
21	Paramecium-Like Iron Oxide Nanotubes as a Cost-Efficient Catalyst for Nonaqueous Lithium-Oxygen Batteries. <i>Energy Technology</i> , 2018 , 6, 263-272	3.5	9
20	A ZincBromine Flow Battery with Improved Design of Cell Structure and Electrodes. <i>Energy Technology</i> , 2018 , 6, 333-339	3.5	29
19	Carbonized tubular polypyrrole with a high activity for the Br2/Br ⁻ redox reaction in zinc-bromine flow batteries. <i>Electrochimica Acta</i> , 2018 , 284, 569-576	6.7	34
18	A stabilized high-energy Li-polyiodide semi-liquid battery with a dually-protected Li anode. <i>Journal of Power Sources</i> , 2017 , 347, 136-144	8.9	11
17	Ab initio prediction and characterization of phosphorene-like SiS and SiSe as anode materials for sodium-ion batteries. <i>Science Bulletin</i> , 2017 , 62, 572-578	10.6	46
16	High-performance zinc bromine flow battery via improved design of electrolyte and electrode. <i>Journal of Power Sources</i> , 2017 , 355, 62-68	8.9	71
15	An aprotic lithium/polyiodide semi-liquid battery with an ionic shield. <i>Journal of Power Sources</i> , 2017 , 342, 9-16	8.9	13
14	Ruthenium dioxide-decorated carbonized tubular polypyrrole as a bifunctional catalyst for non-aqueous lithium-oxygen batteries. <i>Electrochimica Acta</i> , 2017 , 257, 281-289	6.7	16

13	Highly active, bi-functional and metal-free B 4 C-nanoparticle-modified graphite felt electrodes for vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2017 , 365, 34-42	8.9	57
12	Advances and challenges in lithium-air batteries. <i>Applied Energy</i> , 2017 , 204, 780-806	10.7	128
11	Facile preparation of high-performance MnO ₂ /KB air cathode for Zn-air batteries. <i>Electrochimica Acta</i> , 2016 , 222, 1438-1444	6.7	24
10	Computational insights into the effect of carbon structures at the atomic level for non-aqueous sodium-oxygen batteries. <i>Journal of Power Sources</i> , 2016 , 325, 91-97	8.9	20
9	A high-performance solid-state lithium-oxygen battery with a ceramic-carbon nanostructured electrode. <i>Nano Energy</i> , 2016 , 26, 565-576	17.1	47
8	Borophene: A promising anode material offering high specific capacity and high rate capability for lithium-ion batteries. <i>Nano Energy</i> , 2016 , 23, 97-104	17.1	34 ⁰
7	Cost-effective carbon supported Fe ₂ O ₃ nanoparticles as an efficient catalyst for non-aqueous lithium-oxygen batteries. <i>Electrochimica Acta</i> , 2016 , 211, 545-551	6.7	25
6	Two-dimensional SiS as a potential anode material for lithium-based batteries: A first-principles study. <i>Journal of Power Sources</i> , 2016 , 331, 391-399	8.9	34
5	Carbon electrode with NiO and RuO ₂ nanoparticles improves the cycling life of non-aqueous lithium-oxygen batteries. <i>Journal of Power Sources</i> , 2016 , 326, 303-312	8.9	22
4	A novel high-energy-density positive electrolyte with multiple redox couples for redox flow batteries. <i>Applied Energy</i> , 2014 , 136, 576-581	10.7	33
3	Experimental investigation on thermal management of electric vehicle battery with heat pipe. <i>Energy Conversion and Management</i> , 2013 , 65, 92-97	10.6	27 ¹
2	Molecular dynamics simulations of melting behavior of alkane as phase change materials slurry. <i>Energy Conversion and Management</i> , 2012 , 64, 152-156	10.6	22
1	A high-performance lithiated silicon-sulfur battery enabled by fluorinated ether electrolytes. <i>Journal of Materials Chemistry A</i> ,	13	2