

# Maochun Wu

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6346120/maochun-wu-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Borophene: A promising anode material offering high specific capacity and high rate capability for lithium-ion batteries. <i>Nano Energy</i> , <b>2016</b> , 23, 97-104	17.1	340
65	Experimental investigation on thermal management of electric vehicle battery with heat pipe. <i>Energy Conversion and Management</i> , <b>2013</b> , 65, 92-97	10.6	271
64	Advances and challenges in lithium-air batteries. <i>Applied Energy</i> , <b>2017</b> , 204, 780-806	10.7	128
63	A high power density and long cycle life vanadium redox flow battery. <i>Energy Storage Materials</i> , <b>2020</b> , 24, 529-540	19.4	103
62	High-performance zinc bromine flow battery via improved design of electrolyte and electrode. <i>Journal of Power Sources</i> , <b>2017</b> , 355, 62-68	8.9	71
61	Improved electrolyte for zinc-bromine flow batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 384, 232-239	8.9	63
60	Anion exchange membranes for aqueous acid-based redox flow batteries: Current status and challenges. <i>Applied Energy</i> , <b>2019</b> , 233-234, 622-643	10.7	60
59	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> , <b>2017</b> , 365, 34-42	8.9	57
58	Towards a uniform distribution of zinc in the negative electrode for zinc bromine flow batteries. <i>Applied Energy</i> , <b>2018</b> , 213, 366-374	10.7	56
57	Polyoxyethylene (PEO) PEO-Perovskite PEO Composite Electrolyte for All-Solid-State Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 46930-46937	9.5	53
56	A high-performance solid-state lithium-oxygen battery with a ceramic-carbon nanostructured electrode. <i>Nano Energy</i> , <b>2016</b> , 26, 565-576	17.1	47
55	Ab initio prediction and characterization of phosphorene-like SiS and SiSe as anode materials for sodium-ion batteries. <i>Science Bulletin</i> , <b>2017</b> , 62, 572-578	10.6	46
54	A uniformly distributed bismuth nanoparticle-modified carbon cloth electrode for vanadium redox flow batteries. <i>Applied Energy</i> , <b>2019</b> , 240, 226-235	10.7	41
53	Carbonized tubular polypyrrole with a high activity for the Br <sub>2</sub> /Br <sup>-</sup> redox reaction in zinc-bromine flow batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 284, 569-576	6.7	34
52	Two-dimensional SiS as a potential anode material for lithium-based batteries: A first-principles study. <i>Journal of Power Sources</i> , <b>2016</b> , 331, 391-399	8.9	34
51	A novel high-energy-density positive electrolyte with multiple redox couples for redox flow batteries. <i>Applied Energy</i> , <b>2014</b> , 136, 576-581	10.7	33
50	A dendrite-free zinc anode for rechargeable aqueous batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20175-20184	13	33

49	A Zinc-Bromine Flow Battery with Improved Design of Cell Structure and Electrodes. <i>Energy Technology</i> , <b>2018</b> , 6, 333-339	3.5	29
48	V <sub>2</sub> O <sub>5</sub> -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> , <b>2019</b> , 409, 76-85	8.9	28
47	An aqueous manganese-copper battery for large-scale energy storage applications. <i>Journal of Power Sources</i> , <b>2019</b> , 423, 203-210	8.9	27
46	An aqueous alkaline battery consisting of inexpensive all-iron redox chemistries for large-scale energy storage. <i>Applied Energy</i> , <b>2018</b> , 215, 98-105	10.7	26
45	Atomically dispersed Fe <sub>Nx</sub> active sites within hierarchical mesoporous carbon as efficient electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20132-20138	13	25
44	An ultrathin, strong, flexible composite solid electrolyte for high-voltage lithium metal batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18802-18809	13	25
43	Cost-effective carbon supported Fe <sub>2</sub> O <sub>3</sub> nanoparticles as an efficient catalyst for non-aqueous lithium-oxygen batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 211, 545-551	6.7	25
42	Ultra-stable lithium plating/stripping in garnet-based lithium-metal batteries enabled by a SnO <sub>2</sub> nanolayer. <i>Journal of Power Sources</i> , <b>2019</b> , 433, 226691	8.9	24
41	Facile preparation of high-performance MnO <sub>2</sub> /KB air cathode for Zn-air batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 1438-1444	6.7	24
40	Mesoporous carbon derived from pomelo peel as a high-performance electrode material for zinc-bromine flow batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 442, 227255	8.9	24
39	Molecular dynamics simulations of melting behavior of alkane as phase change materials slurry. <i>Energy Conversion and Management</i> , <b>2012</b> , 64, 152-156	10.6	22
38	Carbon electrode with NiO and RuO <sub>2</sub> nanoparticles improves the cycling life of non-aqueous lithium-oxygen batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 326, 303-312	8.9	22
37	A bi-porous graphite felt electrode with enhanced surface area and catalytic activity for vanadium redox flow batteries. <i>Applied Energy</i> , <b>2019</b> , 233-234, 105-113	10.7	22
36	Computational insights into the effect of carbon structures at the atomic level for non-aqueous sodium-oxygen batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 325, 91-97	8.9	20
35	Superior cycling life of Li-S batteries with high sulfur loading enabled by a bifunctional layered-MoO <sub>3</sub> cathode. <i>Journal of Power Sources</i> , <b>2019</b> , 436, 226840	8.9	18
34	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> , <b>2021</b> , 55, 136-144	12	18
33	A hybrid battery thermal management system for electric vehicles under dynamic working conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 164, 120528	4.9	18
32	N-doped graphene nanoplatelets as a highly active catalyst for Br <sub>2</sub> /Br <sup>-</sup> redox reactions in zinc-bromine flow batteries. <i>Electrochimica Acta</i> , <b>2019</b> , 318, 69-75	6.7	17

31	A composite solid electrolyte with a framework of vertically aligned perovskite for all-solid-state Li-metal batteries. <i>Journal of Membrane Science</i> , <b>2020</b> , 610, 118265	9.6	17
30	Enhanced cycle life of vanadium redox flow battery via a capacity and energy efficiency recovery method. <i>Journal of Power Sources</i> , <b>2020</b> , 478, 228725	8.9	17
29	Advances in thermal management systems for next-generation power batteries. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 181, 121853	4.9	17
28	Ruthenium dioxide-decorated carbonized tubular polypyrrole as a bifunctional catalyst for non-aqueous lithium-oxygen batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 257, 281-289	6.7	16
27	2D Ti C T MXenes: Visible Black but Infrared White Materials. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103054	24	16
26	Mesoporous ultrafine Ta <sub>2</sub> O <sub>5</sub> nanoparticle with abundant oxygen vacancies as a novel and efficient catalyst for non-aqueous Li-O <sub>2</sub> batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 271, 232-241	6.7	15
25	Seawater as an alternative to deionized water for electrolyte preparations in vanadium redox flow batteries. <i>Applied Energy</i> , <b>2019</b> , 251, 113344	10.7	14
24	Aligned hierarchical electrodes for high-performance aqueous redox flow battery. <i>Applied Energy</i> , <b>2020</b> , 271, 115235	10.7	14
23	An aprotic lithium/polyiodide semi-liquid battery with an ionic shield. <i>Journal of Power Sources</i> , <b>2017</b> , 342, 9-16	8.9	13
22	Facile Surface Modification Method To Achieve an Ultralow Interfacial Resistance in Garnet-Based Li Metal Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6332-6340	6.1	13
21	A High-Capacity, Long-Cycling All-Solid-State Lithium Battery Enabled by Integrated Cathode/Ultrathin Solid Electrolyte. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101612	21.8	13
20	Enabling Solid-State Li Metal Batteries by In Situ Forming Ionogel Interlayers. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5712-5721	6.1	12
19	A long-life LiS battery enabled by a cathode made of well-distributed B <sub>4</sub> C nanoparticles decorated activated cotton fibers. <i>Journal of Power Sources</i> , <b>2020</b> , 451, 227751	8.9	12
18	Artificial Bifunctional Protective layer Composed of Carbon Nitride Nanosheets for High Performance LithiumSulfur Batteries. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 101006	7.8	12
17	A stabilized high-energy Li-polyiodide semi-liquid battery with a dually-protected Li anode. <i>Journal of Power Sources</i> , <b>2017</b> , 347, 136-144	8.9	11
16	A trifunctional electrolyte for high-performance zinc-iodine flow batteries. <i>Journal of Power Sources</i> , <b>2021</b> , 484, 229238	8.9	11
15	A hierarchical porous tin host for dendrite-free, highly reversible zinc anodes. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 130643	14.7	11
14	A novel electrode formed with electrospun nano- and micro-scale carbon fibers for aqueous redox flow batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 470, 228441	8.9	9

13	Paramecium-Like Iron Oxide Nanotubes as a Cost-Efficient Catalyst for Nonaqueous Lithium-Oxygen Batteries. <i>Energy Technology</i> , <b>2018</b> , 6, 263-272	3.5	9
12	Investigation of an aqueous rechargeable battery consisting of manganese tin redox chemistries for energy storage. <i>Journal of Power Sources</i> , <b>2019</b> , 437, 226918	8.9	8
11	Chloride ions as an electrolyte additive for high performance vanadium redox flow batteries. <i>Applied Energy</i> , <b>2021</b> , 289, 116690	10.7	7
10	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> , <b>2021</b> , 9, 9665-9674	13	6
9	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> , <b>2021</b> , 181, 121855	4.9	6
8	A high-performance lithiated silicon-sulfur battery with pomegranate-structured electrodes. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230174	8.9	4
7	A Highly Reversible Zinc Anode for Rechargeable Aqueous Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	3
6	A high-performance lithiated silicon-sulfur battery enabled by fluorinated ether electrolytes. <i>Journal of Materials Chemistry A</i> ,	13	2
5	An energy-dense, flowable suspension of hollow carbon nanoshell-hosted sulfur as an electroactive material for flow batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 478, 228750	8.9	2
4	A High-Capacity Polyethylene Oxide-Based All-Solid-State Battery Using a Metal-Organic Framework Hosted Silicon Anode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> , 14, 24798-24805	9.5	1
3	In-situ forming lithiophilic-lithiophobic gradient interphases for dendrite-free all-solid-state Li metal batteries. <i>Nano Energy</i> , <b>2022</b> , 99, 107395	17.1	1
2	A convection-enhanced flow field for aqueous redox flow batteries. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 179, 121747	4.9	0
1	A Janus-faced, perovskite nanofiber framework reinforced composite electrolyte for high-voltage solid lithium-metal batteries. <i>Journal of Power Sources</i> , <b>2022</b> , 526, 231172	8.9	0