

# Hai-bo Hu

## 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.

55  
papers

2,310  
citations

28  
h-index

47  
g-index

60  
ext. papers

3,160  
ext. citations

10.5  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
55	Modulation of pore-size in N, S-codoped carbon/Co9S8 hybrid for a stronger O2 affinity toward rechargeable zinc-air battery. <i>Nano Energy</i> , <b>2022</b> , 92, 106750	17.1	3
54	Synergetic Chemistry and Interface Engineering of Hydrogel Electrolyte to Strengthen Durability of Solid-State Zn-Air Batteries.. <i>Small Methods</i> , <b>2022</b> , 6, e2101276	12.8	7
53	Dual Defocused Laser Pyrolysis: A Lasing-Centric Strategy for Defect and Morphological Optimization in Microsupercapacitor Electrodes.. <i>Small Methods</i> , <b>2022</b> , e2101616	12.8	
52	Micro-Redoxcapacitor: A Hybrid Architecture Out of the Notorious Energy-Power Density Dilemma (Adv. Funct. Mater. 19/2022). <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2270111	15.6	1
51	Interlayer Structure Engineering of MXene-Based Capacitor-Type Electrode for Hybrid Micro-Supercapacitor toward Battery-Level Energy Density. <i>Advanced Science</i> , <b>2021</b> , 8, e2100775	13.6	28
50	An Adjacent Atomic Platinum Site Enables Single-Atom Iron with High Oxygen Reduction Reaction Performance. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 19262-19271	16.4	81
49	Atomic-Level Modulation of Electronic Density at Cobalt Single-Atom Sites Derived from Metal-Organic Frameworks: Enhanced Oxygen Reduction Performance. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 3212-3221	16.4	180
48	Atomic-Level Modulation of Electronic Density at Cobalt Single-Atom Sites Derived from Metal-Organic Frameworks: Enhanced Oxygen Reduction Performance. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 3249-3258	3.6	22
47	SnS2/MXene derived TiO2 hybrid for ultra-fast room temperature NO2 gas sensing. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 7407-7416	7.1	7
46	An Adjacent Atomic Platinum Site Enables Single-Atom Iron with High Oxygen Reduction Reaction Performance. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 19411-19420	3.6	11
45	Synchronously manipulating Zn <sup>2+</sup> transfer and hydrogen/oxygen evolution kinetics in MXene host electrodes toward symmetric Zn-ions micro-supercapacitor with enhanced areal energy density. <i>Energy Storage Materials</i> , <b>2021</b> , 40, 10-21	19.4	18
44	Battery-Sensor Hybrid: A New Gas Sensing Paradigm with Complete Energy Self-Sufficiency. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 46507-46517	9.5	3
43	Liquid-metal-bridge-island design: seamless integration of intrinsically stretchable liquid metal circuits and mechanically deformable structures for ultra-stretchable all-solid-state rechargeable Zn-air battery arrays. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5097-5110	13	12
42	Rolled-up island-bridge (RIB): a new and general electrode configuration design for a wire-shaped stretchable micro-supercapacitor array. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 2899-2911	13	7
41	Ion Sieve: Tailoring Zn Desolvation Kinetics and Flux toward Dendrite-Free Metallic Zinc Anodes.. <i>ACS Nano</i> , <b>2021</b> ,	16.7	15
40	Hydrogel Electrolytes for Quasi-Solid Zinc-Based Batteries. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 546728	5	6
39	Electrons/ions dual transport channels design: Concurrently tuning interlayer conductivity and space within re-stacked few-layered MXenes film electrodes for high-areal-capacitance stretchable micro-supercapacitor-arrays. <i>Nano Energy</i> , <b>2020</b> , 74, 104812	17.1	49

38	Performance Recovery in Degraded Carbon-Based Electrodes for Capacitive Deionization. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 1848-1856	10.3	10
37	Fe <sub>0.96S</sub> /Co <sub>8</sub> FeS <sub>8</sub> nanoparticles co-embedded in porous N, S codoped carbon with enhanced bifunctional electrocatalytic activities for all-solid-state Zn-air batteries. <i>Applied Surface Science</i> , <b>2020</b> , 505, 144212	6.7	14
36	N-Doped-carbon/cobalt-nanoparticle/N-doped-carbon multi-layer sandwich nanohybrids derived from cobalt MOFs having 3D molecular structures as bifunctional electrocatalysts for on-chip solid-state Zn-air batteries. <i>Nanoscale</i> , <b>2020</b> , 12, 3750-3762	7.7	40
35	Enhanced Catalytic Activity of LaMnO <sub>3</sub> by A-Site Substitution as Air Electrode of Zn-Air Batteries with Attractive Durability. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 10170-10177	4.1	12
34	Concurrently Realizing Geometric Confined Growth and Doping of Transition Metals within Graphene Hosts for Bifunctional Electrocatalysts toward a Solid-State Rechargeable Micro-Zn-Air Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 38031-38044	9.5	10
33	Inverse-opal-structured hybrids of N, S-codoped-carbon-confined Co <sub>9</sub> S <sub>8</sub> nanoparticles as bifunctional oxygen electrocatalyst for on-chip all-solid-state rechargeable Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 260, 118209	21.8	86
32	Kirigami Patterning of MXene/Bacterial Cellulose Composite Paper for All-Solid-State Stretchable Micro-Supercapacitor Arrays. <i>Advanced Science</i> , <b>2019</b> , 6, 1900529	13.6	143
31	N- and S-doped porous carbon decorated with in-situ synthesized CoNi bimetallic sulfides particles: A cathode catalyst of rechargeable Zn-air batteries. <i>Carbon</i> , <b>2019</b> , 146, 476-485	10.4	40
30	The Synergistic Effect Accelerates the Oxygen Reduction/Evolution Reaction in a Zn-Air Battery. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 524	5	16
29	Planar all-solid-state rechargeable Zn-air batteries for compact wearable energy storage. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17581-17593	13	77
28	Confined growth of MoSe <sub>2</sub> nanosheets in N-doped carbon shell with hierarchical porous structure for efficient hydrogen evolution. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 2409-2416	5.8	13
27	Facile synthesis of sesame-husk-like porous SnO <sub>2</sub> nanocylinders as anodes for high-performance lithium-ion batteries. <i>Micro and Nano Letters</i> , <b>2019</b> , 14, 178-181	0.9	2
26	A highly durable textile-based sensor as a human-worn material interface for long-term multiple mechanical deformation sensing. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 14651-14663	7.1	15
25	Wearable strain sensing textile based on one-dimensional stretchable and weavable yarn sensors. <i>Nano Research</i> , <b>2018</b> , 11, 5799-5811	10	71
24	Monodisperse Co <sub>9</sub> S <sub>8</sub> nanoparticles in situ embedded within N, S-codoped honeycomb-structured porous carbon for bifunctional oxygen electrocatalyst in a rechargeable Zn-air battery. <i>NPG Asia Materials</i> , <b>2018</b> , 10, 670-684	10.3	58
23	Binder-free bonding of modularized MXene thin films into thick film electrodes for on-chip micro-supercapacitors with enhanced areal performance metrics. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 14876-14884	13	46
22	Carbon-Based Flexible and All-Solid-State Micro-supercapacitors Fabricated by Inkjet Printing with Enhanced Performance. <i>Nano-Micro Letters</i> , <b>2017</b> , 9, 19	19.5	39
21	Highly Flexible and Bright Electroluminescent Devices Based on Ag Nanowire Electrodes and Top-Emission Structure. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600535	6.4	42

20	Fabrication of Orientation-Tunable Si Nanowires on Silicon Pyramids with Omnidirectional Light Absorption. <i>Langmuir</i> , <b>2017</b> , 33, 3569-3575	4	14
19	Coaxial-Structured Weavable and Wearable Electroluminescent Fibers. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700401	6.4	38
18	An easily manipulated protocol for patterning of MXenes on paper for planar micro-supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19639-19648	13	92
17	3D Interdigital Au/MnO <sub>2</sub> /Au Stacked Hybrid Electrodes for On-Chip Microsupercapacitors. <i>Small</i> , <b>2016</b> , 12, 3059-69	11	94
16	Recent advances in designing and fabrication of planar micro-supercapacitors for on-chip energy storage. <i>Energy Storage Materials</i> , <b>2015</b> , 1, 82-102	19.4	92
15	Flexible Si/PEDOT:PSS hybrid solar cells. <i>Nano Research</i> , <b>2015</b> , 8, 3141-3149	10	16
14	Flexible and all-solid-state supercapacitors with long-time stability constructed on PET/Au/polyaniline hybrid electrodes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 617-623	13	39
13	Bearing capacity of steel fiber reinforced reactive powder concrete confined by spirals. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2015</b> , 48, 2613-2628	3.4	6
12	Study on hole-transport-material-free planar TiO <sub>2</sub> /CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> heterojunction solar cells: the simplest configuration of a working perovskite solar cell. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 14902-14909	13	39
11	Flexible, in-plane, and all-solid-state micro-supercapacitors based on printed interdigital Au/polyaniline network hybrid electrodes on a chip. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 20916-20922	13	62
10	Magnetically responsive photonic watermarks on banknotes. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 3695	7.1	100
9	Low-cost, acid/alkaline-resistant, and fluorine-free superhydrophobic fabric coating from onionlike carbon microspheres converted from waste polyethylene terephthalate. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 2928-33	10.3	39
8	Manganese hexacyanoferrate/MnO <sub>2</sub> composite nanostructures as a cathode material for supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2621	13	78
7	Magnetically controllable colloidal photonic crystals: unique features and intriguing applications. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 6013	7.1	42
6	Invisible photonic printing: computer designing graphics, UV printing and shown by a magnetic field. <i>Scientific Reports</i> , <b>2013</b> , 3, 1484	4.9	88
5	Visually readable and highly stable self-display photonic humidity sensor. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 1021-1027		60
4	Photonic anti-counterfeiting using structural colors derived from magnetic-responsive photonic crystals with double photonic bandgap heterostructures. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 11048		101
3	Thermo- and light-regulated fluorescence resonance energy transfer processes within dually responsive microgels. <i>Polymer Chemistry</i> , <b>2011</b> , 2, 363-371	4.9	82

2	Reusable photonic wordpad with water as ink prepared by radical polymerization. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 13062	26
1	Micro-Redoxcapacitor: A Hybrid Architecture Out of the Notorious Energy-Power Density Dilemma. <i>Advanced Functional Materials</i> , 2111805	15.6 5