

# Minshen Zhu

## List of Publications by Year in descending order

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84  
papers

11,944  
citations

41258

49  
h-index

62479

80  
g-index

87  
all docs

87  
docs citations

87  
times ranked

12922  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Switching and Energy Storage Unified by Electrochemical Ion Intercalation. <i>Advanced Materials Technologies</i> , 2023, 8, .	3.0	1
2	Interfacial Chemistry Triggers Ultrafast Radiative Recombination in Metal Halide Perovskites. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	22
3	Highly enhanced reversibility of a Zn anode by in-situ texturing. <i>Energy Storage Materials</i> , 2022, 47, 98-104.	9.5	56
4	On-Chip Batteries for Dust-Sized Computers. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	36
5	Unleashing energy storage ability of aqueous battery electrolytes. <i>Materials Futures</i> , 2022, 1, 022001.	3.1	17
6	Building durable aqueous K-ion capacitors based on MXene family. , 2022, 1, e9120002.		131
7	Flexible MXene films for batteries and beyond. , 2022, 4, 598-620.		42
8	A Sub-Square-Millimeter Microbattery with Milliampere-Hour-Level Footprint Capacity. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	30
9	Tiny robots and sensors need tiny batteries – here’s how to do it. <i>Nature</i> , 2021, 589, 195-197.	13.7	72
10	A Patternable and In Situ Formed Polymeric Zinc Blanket for a Reversible Zinc Anode in a Skin-Mountable Microbattery. <i>Advanced Materials</i> , 2021, 33, e2007497.	11.1	175
11	Covalent Organic Frameworks for Efficient Energy Electrocatalysis: Rational Design and Progress. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000090.	2.8	29
12	Battery-Everywhere Design Based on a Cathodeless Configuration with High Sustainability and Energy Density. <i>ACS Energy Letters</i> , 2021, 6, 1859-1868.	8.8	35
13	Imperceptible Supercapacitors with High Area-Specific Capacitance. <i>Small</i> , 2021, 17, e2101704.	5.2	26
14	A compact tube-in-tube micro-sized lithium-ion battery as an independent microelectric power supply unit. <i>Cell Reports Physical Science</i> , 2021, 2, 100429.	2.8	7
15	Dual-Redox-Sites Enable Two-Dimensional Conjugated Metal-Organic Frameworks with Large Pseudocapacitance and Wide Potential Window. <i>Journal of the American Chemical Society</i> , 2021, 143, 10168-10176.	6.6	75
16	On-Chip Integration of a Covalent Organic Framework-Based Catalyst into a Miniaturized Zn-Air Battery with High Energy Density. <i>ACS Energy Letters</i> , 2021, 6, 2491-2498.	8.8	46
17	Limitations of Mean-Based Algorithms for Trace Reconstruction at Small Distance. , 2021, , .		3
18	Perovskite Origami for Programmable Microtube Lasing. <i>Advanced Functional Materials</i> , 2021, 31, 2109080.	7.8	14

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19	Polymers for supercapacitors: Boosting the development of the flexible and wearable energy storage. <i>Materials Science and Engineering Reports</i> , 2020, 139, 100520.	14.8	145
20	Antifreezing Hydrogel with High Zinc Reversibility for Flexible and Durable Aqueous Batteries by Cooperative Hydrated Cations. <i>Advanced Functional Materials</i> , 2020, 30, 1907218.	7.8	209
21	On-chip 3D interdigital micro-supercapacitors with ultrahigh areal energy density. <i>Energy Storage Materials</i> , 2020, 27, 17-24.	9.5	54
22	Flexible Surface-Enhanced Raman Scattering Chip: A Universal Platform for Real-Time Interfacial Molecular Analysis with Femtomolar Sensitivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 54174-54180.	4.0	27
23	Stress-Actuated Spiral Microelectrode for High-Performance Lithium-Ion Microbatteries. <i>Small</i> , 2020, 16, e2002410.	5.2	8
24	Stamping Fabrication of Flexible Planar Micro-Supercapacitors Using Porous Graphene Inks. <i>Advanced Science</i> , 2020, 7, 2001561.	5.6	49
25	Decoding of Oxygen Network Distortion in a Layered High-Rate Anode by <i>In Situ</i> Investigation of a Single Microelectrode. <i>ACS Nano</i> , 2020, 14, 11753-11764.	7.3	10
26	Steering Directional Light Emission and Mode Chirality through Postshaping of Cavity Geometry. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000118.	4.4	7
27	Nano energy for miniaturized systems. <i>Nano Materials Science</i> , 2020, , .	3.9	15
28	Advanced architecture designs towards high-performance 3D microbatteries. <i>Nano Materials Science</i> , 2020, , .	3.9	18
29	Towards high-performance microscale batteries: Configurations and optimization of electrode materials by in-situ analytical platforms. <i>Energy Storage Materials</i> , 2020, 29, 17-41.	9.5	25
30	High SERS Sensitivity Enabled by Synergistically Enhanced Photoinduced Charge Transfer in Amorphous Nonstoichiometric Semiconducting Films. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901133.	1.9	42
31	Self-Assembly of Integrated Tubular Microsupercapacitors with Improved Electrochemical Performance and Self-Protective Function. <i>ACS Nano</i> , 2019, 13, 8067-8075.	7.3	57
32	Self-Assembled Flexible and Integratable 3D Microtubular Asymmetric Supercapacitors. <i>Advanced Science</i> , 2019, 6, 1901051.	5.6	39
33	Nanoscale Parallel Circuitry Based on Interpenetrating Conductive Assembly for Flexible and High-Power Zinc Ion Battery. <i>Advanced Functional Materials</i> , 2019, 29, 1901336.	7.8	145
34	Artificial electrode interfaces enable stable operation of freestanding anodes for high-performance flexible lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14097-14107.	5.2	21
35	Boron Element Nanowires Electrode for Supercapacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1703117.	10.2	81
36	A flexible rechargeable zinc-ion wire-shaped battery with shape memory function. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8549-8557.	5.2	138

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37	A Building Brick Principle to Create Transparent Composite Films with Multicolor Emission and Self-Healing Function. <i>Small</i> , 2018, 14, e1800315.	5.2	21
38	An extremely safe and wearable solid-state zinc ion battery based on a hierarchical structured polymer electrolyte. <i>Energy and Environmental Science</i> , 2018, 11, 941-951.	15.6	731
39	Highly anisotropic, multichannel wood carbon with optimized heteroatom doping for supercapacitor and oxygen reduction reaction. <i>Carbon</i> , 2018, 130, 532-543.	5.4	164
40	Light-permeable, photoluminescent microbatteries embedded in the color filter of a screen. <i>Energy and Environmental Science</i> , 2018, 11, 2414-2422.	15.6	97
41	Waterproof and Tailorable Elastic Rechargeable Yarn Zinc Ion Batteries by a Cross-Linked Polyacrylamide Electrolyte. <i>ACS Nano</i> , 2018, 12, 3140-3148.	7.3	439
42	Construction of a hierarchical 3D Co/N-carbon electrocatalyst for efficient oxygen reduction and overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 489-497.	5.2	111
43	Towards wearable electronic devices: A quasi-solid-state aqueous lithium-ion battery with outstanding stability, flexibility, safety and breathability. <i>Nano Energy</i> , 2018, 44, 164-173.	8.2	228
44	Graphene stirrer with designed movements: Targeting on environmental remediation and supercapacitor applications. <i>Green Energy and Environment</i> , 2018, 3, 86-96.	4.7	10
45	Solid-State Rechargeable Zn//NiCo and Zn-Air Batteries with Ultralong Lifetime and High Capacity: The Role of a Sodium Polyacrylate Hydrogel Electrolyte. <i>Advanced Energy Materials</i> , 2018, 8, 1802288.	10.2	253
46	Advances in Flexible and Wearable Energy Storage Textiles. <i>Small Methods</i> , 2018, 2, 1800124.	4.6	123
47	Pairing of Luminescent Switch with Electrochromism for Quasi-Solid-State Dual-Function Smart Windows. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31697-31703.	4.0	32
48	LaB <sub>6</sub> nanowires for supercapacitors. <i>Materials Today Energy</i> , 2018, 10, 28-33.	2.5	25
49	A Wearable Supercapacitor Engaged with Gold Leaf Gilding Cloth Toward Enhanced Practicability. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 21297-21305.	4.0	28
50	A Highly Durable, Transferable, and Substrate-Versatile High-Performance All-Polymer Micro-Supercapacitor with Plug-and-Play Function. <i>Advanced Materials</i> , 2017, 29, 1605137.	11.1	160
51	Photoluminescent Ti <sub>3</sub> C <sub>2</sub> MXene Quantum Dots for Multicolor Cellular Imaging. <i>Advanced Materials</i> , 2017, 29, 1604847.	11.1	692
52	Recent progress of fiber-shaped asymmetric supercapacitors. <i>Materials Today Energy</i> , 2017, 5, 1-14.	2.5	80
53	Texturing in situ: N,S-enriched hierarchically porous carbon as a highly active reversible oxygen electrocatalyst. <i>Energy and Environmental Science</i> , 2017, 10, 742-749.	15.6	451
54	Recent Progress on Flexible and Wearable Supercapacitors. <i>Small</i> , 2017, 13, 1701827.	5.2	365

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55	Mn <sub>3</sub> O <sub>4</sub> nanoparticles on layer-structured Ti <sub>3</sub> C <sub>2</sub> MXene towards the oxygen reduction reaction and zinc-air batteries. Journal of Materials Chemistry A, 2017, 5, 20818-20823.	5.2	226
56	Field-Effect Transistors: Ultrathin MXene-Micropattern-Based Field-Effect Transistor for Probing Neural Activity (Adv. Mater. 17/2016). Advanced Materials, 2016, 28, 3411-3411.	11.1	12
57	Highly Integrated Supercapacitor-Sensor Systems via Material and Geometry Design. Small, 2016, 12, 3393-3399.	5.2	78
58	Ultrathin MXene-Micropattern-Based Field-Effect Transistor for Probing Neural Activity. Advanced Materials, 2016, 28, 3333-3339.	11.1	474
59	Toward enhanced activity of a graphitic carbon nitride-based electrocatalyst in oxygen reduction and hydrogen evolution reactions via atomic sulfur doping. Journal of Materials Chemistry A, 2016, 4, 12205-12211.	5.2	112
60	Capacitance Enhancement in a Semiconductor Nanostructure-Based Supercapacitor by Solar Light and a Self-Powered Supercapacitor-Photodetector System. Advanced Functional Materials, 2016, 26, 4481-4490.	7.8	133
61	Nanostructured Polypyrrole as a flexible electrode material of supercapacitor. Nano Energy, 2016, 22, 422-438.	8.2	629
62	3D spacer fabric based multifunctional triboelectric nanogenerator with great feasibility for mechanized large-scale production. Nano Energy, 2016, 27, 439-446.	8.2	107
63	Highly Flexible, Freestanding Supercapacitor Electrode with Enhanced Performance Obtained by Hybridizing Polypyrrole Chains with MXene. Advanced Energy Materials, 2016, 6, 1600969.	10.2	580
64	A high performance fiber-shaped PEDOT/MnO <sub>2</sub> /C@Fe <sub>3</sub> O <sub>4</sub> asymmetric supercapacitor for wearable electronics. Journal of Materials Chemistry A, 2016, 4, 14877-14883.	5.2	118
65	Hydrothermal synthesis of blue-fluorescent monolayer BN and BCNO quantum dots for bio-imaging probes. RSC Advances, 2016, 6, 79090-79094.	1.7	66
66	Stretchable and Thermally Stable Dual Emission Composite Films of On-Purpose Aggregated Copper Nanoclusters in Carboxylated Polyurethane for Remote White Light-Emitting Devices. ACS Applied Materials & Interfaces, 2016, 8, 33993-33998.	4.0	47
67	High-performance stretchable yarn supercapacitor based on PPy@CNTs@urethane elastic fiber core spun yarn. Nano Energy, 2016, 27, 230-237.	8.2	297
68	Multifunctional Energy Storage and Conversion Devices. Advanced Materials, 2016, 28, 8344-8364.	11.1	420
69	Fabrication of Boron Nitride Nanosheets by Exfoliation. Chemical Record, 2016, 16, 1204-1215.	2.9	74
70	Dramatically improved energy conversion and storage efficiencies by simultaneously enhancing charge transfer and creating active sites in MnO <sub>x</sub> /TiO <sub>2</sub> nanotube composite electrodes. Nano Energy, 2016, 20, 254-263.	8.2	77
71	A shape memory supercapacitor and its application in smart energy storage textiles. Journal of Materials Chemistry A, 2016, 4, 1290-1297.	5.2	134
72	A modularization approach for linear-shaped functional supercapacitors. Journal of Materials Chemistry A, 2016, 4, 4580-4586.	5.2	50

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73	Extremely Stable Polypyrrole Achieved via Molecular Ordering for Highly Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 2435-2440.	4.0	99
74	Magnetic-Assisted, Self-Healable, Yarn-Based Supercapacitor. ACS Nano, 2015, 9, 6242-6251.	7.3	291
75	A self-healable and highly stretchable supercapacitor based on a dual crosslinked polyelectrolyte. Nature Communications, 2015, 6, 10310.	5.8	634
76	Enhanced Tolerance to Stretch-Induced Performance Degradation of Stretchable MnO <sub>2</sub> -Based Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 2569-2574.	4.0	65
77	Facile synthesis of Fe <sub>2</sub> O <sub>3</sub> nanodisk with superior photocatalytic performance and mechanism insight. Science and Technology of Advanced Materials, 2015, 16, 014801.	2.8	63
78	Robust reduced graphene oxide paper fabricated with a household non-stick frying pan: a large-area freestanding flexible substrate for supercapacitors. RSC Advances, 2015, 5, 33981-33989.	1.7	43
79	From Industrially Weavable and Knittable Highly Conductive Yarns to Large Wearable Energy Storage Textiles. ACS Nano, 2015, 9, 4766-4775.	7.3	411
80	An electrochromic supercapacitor and its hybrid derivatives: quantifiably determining their electrical energy storage by an optical measurement. Journal of Materials Chemistry A, 2015, 3, 21321-21327.	5.2	124
81	Super-high rate stretchable polypyrrole-based supercapacitors with excellent cycling stability. Nano Energy, 2015, 11, 518-525.	8.2	248
82	Porous Fe <sub>3</sub> O <sub>4</sub> /carbon composite electrode material prepared from metal-organic framework template and effect of temperature on its capacitance. Nano Energy, 2014, 8, 133-140.	8.2	232
83	Proton-Insertion-Enhanced Pseudocapacitance Based on the Assembly Structure of Tungsten Oxide. ACS Applied Materials & Interfaces, 2014, 6, 18901-18910.	4.0	182
84	Ultra-Dense Plasmonic Nanogap Arrays for Reorientable Molecular Fluorescence Enhancement and Spectrum Reshaping. Nanoscale, 0, , .	2.8	1