

# Zifeng Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

9,621  
citations

71102

41  
h-index

182427

51  
g-index

54  
all docs

54  
docs citations

54  
times ranked

11209  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced rechargeable zinc-based batteries: Recent progress and future perspectives. <i>Nano Energy</i> , 2019, 62, 550-587.	16.0	817
2	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.	30.8	731
3	Photoluminescent $\text{Ti}_3\text{C}_2$ MXene Quantum Dots for Multicolor Cellular Imaging. <i>Advanced Materials</i> , 2017, 29, 1604847.	21.0	692
4	A self-healable and highly stretchable supercapacitor based on a dual crosslinked polyelectrolyte. <i>Nature Communications</i> , 2015, 6, 10310.	12.8	634
5	Nanostructured Polypyrrole as a flexible electrode material of supercapacitor. <i>Nano Energy</i> , 2016, 22, 422-438.	16.0	629
6	Highly Flexible, Freestanding Supercapacitor Electrode with Enhanced Performance Obtained by Hybridizing Polypyrrole Chains with MXene. <i>Advanced Energy Materials</i> , 2016, 6, 1600969.	19.5	580
7	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.	30.8	451
8	Hydrogel Electrolytes for Flexible Aqueous Energy Storage Devices. <i>Advanced Functional Materials</i> , 2018, 28, 1804560.	14.9	433
9	Multifunctional Energy Storage and Conversion Devices. <i>Advanced Materials</i> , 2016, 28, 8344-8364.	21.0	420
10	Initiating a mild aqueous electrolyte $\text{Co}_3\text{O}_4/\text{Zn}$ battery with 2.2 V-high voltage and 5000-cycle lifespan by a $\text{Co}(\text{SCN})_3$ rich-electrode. <i>Energy and Environmental Science</i> , 2018, 11, 2521-2530.	30.8	414
11	Flexible Waterproof Rechargeable Hybrid Zinc Batteries Initiated by Multifunctional Oxygen Vacancies-Rich Cobalt Oxide. <i>ACS Nano</i> , 2018, 12, 8597-8605.	14.6	257
12	Polyurethane/Cotton/Carbon Nanotubes Core-Spun Yarn as High Reliability Stretchable Strain Sensor for Human Motion Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 24837-24843.	8.0	251
13	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.	16.0	228
14	A soft yet device-level dynamically super-tough supercapacitor enabled by an energy-dissipative dual-crosslinked hydrogel electrolyte. <i>Nano Energy</i> , 2019, 58, 732-742.	16.0	187
15	Highly anisotropic, multichannel wood carbon with optimized heteroatom doping for supercapacitor and oxygen reduction reaction. <i>Carbon</i> , 2018, 130, 532-543.	10.3	164
16	A Highly Durable, Transferable, and Substrate-Independent Versatile High-Performance All-Polymer Micro-Supercapacitor with Plug-and-Play Function. <i>Advanced Materials</i> , 2017, 29, 1605137.	21.0	160
17	Polymer composites of boron nitride nanotubes and nanosheets. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10049-10061.	5.5	153
18	Binder-free hierarchical $\text{VS}_2$ electrodes for high-performance aqueous Zn ion batteries towards commercial level mass loading. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16330-16338.	10.3	152

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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.	31.8	145
20	A flexible rechargeable zinc-ion wire-shaped battery with shape memory function. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8549-8557.	10.3	138
21	Recent Progress of $\text{MXene}$ -Based Nanomaterials in Flexible Energy Storage and Electronic Devices. <i>Energy and Environmental Materials</i> , 2018, 1, 183-195.	12.8	135
22	Advances in Flexible and Wearable Energy Storage Textiles. <i>Small Methods</i> , 2018, 2, 1800124.	8.6	123
23	Artificially innervated self-healing foams as synthetic piezo-impedance sensor skins. <i>Nature Communications</i> , 2020, 11, 5747.	12.8	118
24	Enabling highly efficient, flexible and rechargeable quasi-solid-state zn-air batteries via catalyst engineering and electrolyte functionalization. <i>Energy Storage Materials</i> , 2019, 20, 234-242.	18.0	115
25	Toward enhanced activity of a graphitic carbon nitride-based electrocatalyst in oxygen reduction and hydrogen evolution reactions via atomic sulfur doping. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12205-12211.	10.3	112
26	3D spacer fabric based multifunctional triboelectric nanogenerator with great feasibility for mechanized large-scale production. <i>Nano Energy</i> , 2016, 27, 439-446.	16.0	107
27	Highly Flexible and Self-Healable Thermal Interface Material Based on Boron Nitride Nanosheets and a Dual Cross-Linked Hydrogel. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 10078-10084.	8.0	107
28	Highly Compressible Cross-Linked Polyacrylamide Hydrogel-Enabled Compressible $\text{Zn-MnO}_2$ Battery and a Flexible Battery-Sensor System. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 44527-44534.	8.0	105
29	A Highly Stable and Durable Capacitive Strain Sensor Based on Dynamically Super-Tough Hydro/Organo-Gels. <i>Advanced Functional Materials</i> , 2021, 31, 2010830.	14.9	84
30	Recent progress of fiber-shaped asymmetric supercapacitors. <i>Materials Today Energy</i> , 2017, 5, 1-14.	4.7	80
31	Highly Integrated Supercapacitor-Sensor Systems via Material and Geometry Design. <i>Small</i> , 2016, 12, 3393-3399.	10.0	78
32	Integrating a Triboelectric Nanogenerator and a Zinc-Ion Battery on a Designed Flexible 3D Spacer Fabric. <i>Small Methods</i> , 2018, 2, 1800150.	8.6	78
33	Fabrication of Boron Nitride Nanosheets by Exfoliation. <i>Chemical Record</i> , 2016, 16, 1204-1215.	5.8	74
34	Self-healable electroluminescent devices. <i>Light: Science and Applications</i> , 2018, 7, 102.	16.6	71
35	Hydrothermal synthesis of blue-fluorescent monolayer BN and BCNO quantum dots for bio-imaging probes. <i>RSC Advances</i> , 2016, 6, 79090-79094.	3.6	66
36	High thermal conductivity and temperature probing of copper nanowire/upconversion nanoparticles/epoxy composite. <i>Composites Science and Technology</i> , 2016, 130, 63-69.	7.8	61

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37	<i>In situ</i> formation of NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cubes on Ti <sub>3</sub> C <sub>2</sub> MXene for dual-mode sodium storage. Journal of Materials Chemistry A, 2018, 6, 18525-18532.	10.3	60
38	MoO <sub>3</sub> /TiO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> nanocomposite based gas sensors for highly sensitive and selective isopropanol detection at room temperature. Journal of Materials Chemistry A, 2022, 10, 8283-8292.	10.3	54
39	A modularization approach for linear-shaped functional supercapacitors. Journal of Materials Chemistry A, 2016, 4, 4580-4586.	10.3	50
40	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.	3.6	43
41	Flexible Dual-Mode Tactile Sensor Derived from Three-Dimensional Porous Carbon Architecture. ACS Applied Materials & Interfaces, 2017, 9, 22685-22693.	8.0	41
42	Toward Multifunctional and Wearable Smart Skins with Energy Harvesting, Touch Sensing, and Exteroception Visualizing Capabilities by an All-Polymer Design. Advanced Electronic Materials, 2019, 5, 1900553.	5.1	41
43	Fully transient stretchable fruit-based battery as safe and environmentally friendly power source for wearable electronics. EcoMat, 2021, 3, e12073.	11.9	41
44	Solvent-free fabrication of thermally conductive insulating epoxy composites with boron nitride nanoplatelets as fillers. Nanoscale Research Letters, 2014, 9, 643.	5.7	37
45	Spherical Boron Nitride Supported Gold-Copper Catalysts for the Low-Temperature Selective Oxidation of Ethanol. ChemCatChem, 2017, 9, 1363-1367.	3.7	28
46	Highly ductile UV-shielding polymer composites with boron nitride nanospheres as fillers. Nanotechnology, 2015, 26, 115702.	2.6	18
47	Boron ink assisted <i>in situ</i> boron nitride coatings for anti-oxidation and anti-corrosion applications. Nanotechnology, 2019, 30, 335704.	2.6	15
48	Energy-dissipative dual-crosslinked hydrogels for dynamically super-tough sensors. Science China Materials, 2021, 64, 2764-2776.	6.3	15
49	Large scale fabrication of graphene for oil and organic solvent absorption. Progress in Natural Science: Materials International, 2016, 26, 319-323.	4.4	12
50	Graphene stirrer with designed movements: Targeting on environmental remediation and supercapacitor applications. Green Energy and Environment, 2018, 3, 86-96.	8.7	10
51	Thermally Conductive Electrically Insulating Polymer Nanocomposites. , 2016, , 281-321.		5
52	Advances of Drugs Electroanalysis Based on Direct Electrochemical Redox on Electrodes: A Review. Critical Reviews in Analytical Chemistry, 2024, 54, 269-314.	3.5	1