

# Miao Zhang

## List of Publications by Citations

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106  
papers

7,120  
citations

45  
h-index

84  
g-index

111  
ext. papers

8,365  
ext. citations

12.8  
avg, IF

6.38  
L-index

#	Paper	IF	Citations
106	Graphene-based smart materials. <i>Nature Reviews Materials</i> , <b>2017</b> , 2,	73.3	391
105	Graphene-Based Materials for Lithium-Ion Hybrid Supercapacitors. <i>Advanced Materials</i> , <b>2015</b> , 27, 5296-3008	30.8	337
104	Reduced Graphene Oxide Membranes for Ultrafast Organic Solvent Nanofiltration. <i>Advanced Materials</i> , <b>2016</b> , 28, 8669-8674	24	283
103	Graphene-Based Membranes for Molecular Separation. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2806-15	6.4	267
102	A Flexible UV-Vis-NIR Photodetector based on a Perovskite/Conjugated-Polymer Composite. <i>Advanced Materials</i> , <b>2016</b> , 28, 5969-74	24	262
101	A high-performance three-dimensional NiBe layered double hydroxide/graphene electrode for water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6921-6928	13	249
100	Highly Narrowband Photomultiplication Type Organic Photodetectors. <i>Nano Letters</i> , <b>2017</b> , 17, 1995-2002	21.5	223
99	Ultrahigh-Conductivity Polymer Hydrogels with Arbitrary Structures. <i>Advanced Materials</i> , <b>2017</b> , 29, 17009-14	27.4	199
98	Asymmetrical Ladder-Type Donor-Induced Polar Small Molecule Acceptor to Promote Fill Factors Approaching 77% for High-Performance Nonfullerene Polymer Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800052	24	199
97	Water-enhanced oxidation of graphite to graphene oxide with controlled species of oxygenated groups. <i>Chemical Science</i> , <b>2016</b> , 7, 1874-1881	9.4	198
96	Polymer-Derived Heteroatom-Doped Porous Carbon Materials. <i>Chemical Reviews</i> , <b>2020</b> , 120, 9363-9419	68.1	196
95	Ternary nonfullerene polymer solar cells with efficiency >13.7% by integrating the advantages of the materials and two binary cells. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2134-2141	35.4	193
94	Efficient ternary non-fullerene polymer solar cells with PCE of 11.92% and FF of 76.5%. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 841-849	35.4	190
93	Efficient Ternary Polymer Solar Cells with Two Well-Compatible Donors and One Ultranarrow Bandgap Nonfullerene Acceptor. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702854	21.8	177
92	Nematic liquid crystal materials as a morphology regulator for ternary small molecule solar cells with power conversion efficiency exceeding 10%. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3589-3598	13	157
91	Ultratough, ultrastrong, and highly conductive graphene films with arbitrary sizes. <i>Advanced Materials</i> , <b>2014</b> , 26, 7588-92	24	157
90	Over 13% Efficiency Ternary Nonfullerene Polymer Solar Cells with Tilted Up Absorption Edge by Incorporating a Medium Bandgap Acceptor. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801968	21.8	157

89	Hydrogen Evolution Reaction in Alkaline Media: Alpha- or Beta-Nickel Hydroxide on the Surface of Platinum?. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 237-244	20.1	148
88	Ternary Nonfullerene Polymer Solar Cells with a Power Conversion Efficiency of 11.6% by Inheriting the Advantages of Binary Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 555-561	20.1	139
87	Nitrogen and Sulfur Codoped Graphite Foam as a Self-Supported Metal-Free Electrocatalytic Electrode for Water Oxidation. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501492	21.8	135
86	Energy level modulation of non-fullerene acceptors enables efficient organic solar cells with small energy loss. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2468-2475	13	133
85	Multifunctional Pristine Chemically Modified Graphene Films as Strong as Stainless Steel. <i>Advanced Materials</i> , <b>2015</b> , 27, 6708-13	24	128
84	High-Quality Graphene Ribbons Prepared from Graphene Oxide Hydrogels and Their Application for Strain Sensors. <i>ACS Nano</i> , <b>2015</b> , 9, 12320-6	16.7	116
83	An ultrahigh-rate electrochemical capacitor based on solution-processed highly conductive PEDOT:PSS films for AC line-filtering. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2005-2010	35.4	114
82	Highly Sensitive Low-Bandgap Perovskite Photodetectors with Response from Ultraviolet to the Near-Infrared Region. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703953	15.6	113
81	Achieving 14.11% efficiency of ternary polymer solar cells by simultaneously optimizing photon harvesting and exciton distribution. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7843-7851	13	110
80	Trap-assisted photomultiplication polymer photodetectors obtaining an external quantum efficiency of 37,500%. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5890-7	9.5	98
79	Solution-processed PEDOT:PSS/graphene composites as the electrocatalyst for oxygen reduction reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 3587-93	9.5	97
78	Alginate hydrogel dressings for advanced wound management. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 162, 1414-1428	7.9	92
77	NiFe Alloy Protected Silicon Photoanode for Efficient Water Splitting. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601805	21.8	91
76	Ultralight free-standing reduced graphene oxide membranes for oil-in-water emulsion separation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20113-20117	13	87
75	Robust graphene composite films for multifunctional electrochemical capacitors with an ultrawide range of areal mass loading toward high-rate frequency response and ultrahigh specific capacitance. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 559-565	35.4	82
74	Topological Design of Ultrastrong and Highly Conductive Graphene Films. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702831	24	82
73	Organic Photodetectors with Gain and Broadband/Narrowband Response under Top/Bottom Illumination Conditions. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800249	8.1	73
72	Simultaneously improved efficiency and average visible transmittance of semitransparent polymer solar cells with two ultra-narrow bandgap nonfullerene acceptors. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21485-21492	13	69

71	Photomultiplication photodetectors with P3HT:fullerene-free material as the active layers exhibiting a broad response. <i>Nanoscale</i> , <b>2016</b> , 8, 5578-86	7.7	68
70	A liquid crystal material as the third component for ternary polymer solar cells with an efficiency of 10.83% and enhanced stability. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13145-13153	13	62
69	Nitrogen-Doped Holey Graphene Film-Based Ultrafast Electrochemical Capacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20741-7	9.5	62
68	Synthesis of graphene oxide sheets with controlled sizes from sieved graphite flakes. <i>Carbon</i> , <b>2016</b> , 110, 34-40	10.4	58
67	Highly sensitive polymer photodetectors with a broad spectral response range from UV light to the near infrared region. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 7386-7393	7.1	56
66	Designing an asymmetrical isomer to promote the LUMO energy level and molecular packing of a non-fullerene acceptor for polymer solar cells with 12.6% efficiency. <i>Chemical Science</i> , <b>2018</b> , 9, 8142-8149	9.4	56
65	Graphene oxide induced hydrothermal carbonization of egg proteins for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 17040-17047	13	53
64	A small graphene oxide sheet/polyvinylidene fluoride bilayer actuator with large and rapid responses to multiple stimuli. <i>Nanoscale</i> , <b>2017</b> , 9, 17465-17470	7.7	49
63	Efficient Ternary Organic Solar Cells with Two Compatible Non-Fullerene Materials as One Alloyed Acceptor. <i>Small</i> , <b>2018</b> , 14, e1802983	11	48
62	Graphene-Based Organic Electrochemical Capacitors for AC Line Filtering. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700591	21.8	46
61	A General Route to Robust Nacre-Like Graphene Oxide Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 15010-6	9.5	39
60	Tailoring the oxygenated groups of graphene hydrogels for high-performance supercapacitors with large areal mass loadings. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6587-6594	13	39
59	Arbitrary waveform AC line filtering applicable to hundreds of volts based on aqueous electrochemical capacitors. <i>Nature Communications</i> , <b>2019</b> , 10, 2855	17.4	37
58	Highly Conductive Stretchable Electrodes Prepared by In Situ Reduction of Wavy Graphene Oxide Films Coated on Elastic Tapes. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600022	6.4	34
57	Poly(Ionic Liquid)-Derived Graphitic Nanoporous Carbon Membrane Enables Superior Supercapacitive Energy Storage. <i>ACS Nano</i> , <b>2019</b> , 13, 10261-10271	16.7	32
56	Highly Ordered Graphene Solid: An Efficient Platform for Capacitive Sodium-Ion Storage with Ultrahigh Volumetric Capacity and Superior Rate Capability. <i>ACS Nano</i> , <b>2019</b> , 13, 9161-9170	16.7	31
55	Efficient ternary polymer solar cells with a parallel-linkage structure. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 11930-11936	7.1	30
54	Simultaneously Enhanced Efficiency and Stability of Polymer Solar Cells by Employing Solvent Additive and Upside-down Drying Method. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 8863-8871	9.5	29

53	Ternary non-fullerene polymer solar cells with an efficiency of 11.6% by simultaneously optimizing photon harvesting and phase separation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 11751-11758	13	29
52	Graphene-based electrochemical capacitors with integrated high-performance. <i>Materials Today Energy</i> , <b>2017</b> , 6, 181-188	7	28
51	Mildly reduced less defective graphene oxide/sulfur/carbon nanotube composite films for high-performance lithium-sulfur batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 11104-10	3.6	27
50	An ultrasensitive moisture driven actuator based on small flakes of graphene oxide. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 242, 418-422	8.5	27
49	A graphene oxide/oxygen deficient molybdenum oxide nanosheet bilayer as a hole transport layer for efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 18380-18383	13	25
48	A Microfluidic Biosensor Based on Magnetic Nanoparticle Separation, Quantum Dots Labeling and MnO Nanoflower Amplification for Rapid and Sensitive Detection of Typhimurium. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	24
47	A Large-Scale GrapheneBimetal Film Electrode with an Ultrahigh Mass Catalytic Activity for Durable Water Splitting. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800403	21.8	24
46	Suppressing the Self-Discharge of Supercapacitors by Modifying Separators with an Ionic Polyelectrolyte. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701547	4.6	22
45	Alginate-chitosan oligosaccharide-ZnO composite hydrogel for accelerating wound healing. <i>Carbohydrate Polymers</i> , <b>2021</b> , 266, 118100	10.3	22
44	Janus-interface engineering boosting solar steam towards high-efficiency water collection. <i>Energy and Environmental Science</i> ,	35.4	21
43	Porous Carbon Membrane-Supported Atomically Dispersed Pyrrole-Type Fe?N as Active Sites for Electrochemical Hydrazine Oxidation Reaction. <i>Small</i> , <b>2020</b> , 16, e2002203	11	19
42	Inhibiting the growth of lithium dendrites at high current densities with oriented graphene foam. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 15603-15609	13	19
41	Organic dispersions of graphene oxide with arbitrary concentrations and improved chemical stability. <i>Chemical Communications</i> , <b>2017</b> , 53, 11005-11007	5.8	16
40	Application of Dispersive LiquidLiquid Microextraction Based on Solidification of Floating Organic Droplet Multi-residue Method for the Simultaneous Determination of Polychlorinated Biphenyls, Organochlorine, and Pyrethroid Pesticides in Aqueous Sample. <i>Clean - Soil, Air, Water</i> , <b>2012</b> , 40, 1326-1333	1.6	15
39	Circulating T follicular helper cells are associated with rapid virological response in chronic hepatitis C patients undergoing peginterferon therapy. <i>International Immunopharmacology</i> , <b>2016</b> , 34, 235-243	5.8	15
38	Ultrasonic treatment increased functional properties and in vitro digestion of actomyosin complex during meat storage. <i>Food Chemistry</i> , <b>2021</b> , 352, 129398	8.5	15
37	Fused-Ring Core Engineering for Small Molecule Acceptors Enable High-Performance Nonfullerene Polymer Solar Cells. <i>Small Methods</i> , <b>2019</b> , 3, 1900280	12.8	12
36	Efficient ternary organic photovoltaic cells with better trade-off photon harvesting and phase separation by doping DIB-SQ. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 7809-7816	7.1	12

35	13.26% Efficiency Polymer Solar Cells by Optimizing Photogenerated Exciton Distribution and Phase Separation with the Third Component. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900269	7.1	11
34	High-quality graphene films and nitrogen-doped organogels prepared from the organic dispersions of graphene oxide. <i>Carbon</i> , <b>2018</b> , 129, 15-20	10.4	11
33	From wood to thin porous carbon membrane: Ancient materials for modern ultrafast electrochemical capacitors in alternating current line filtering. <i>Energy Storage Materials</i> , <b>2021</b> , 35, 327-333	19.4	11
32	Ionic liquid magnetic bar microextraction and HPLC determination of carbamate pesticides in real water samples. <i>Mikrochimica Acta</i> , <b>2012</b> , 179, 193-199	5.8	10
31	Review on smart strategies for achieving highly efficient ternary polymer solar cells. <i>APL Materials</i> , <b>2020</b> , 8, 090703	5.7	10
30	Ultrasound-assisted headspace ionic-liquid microextraction of polycyclic aromatic hydrocarbons at elevated temperatures. <i>Mikrochimica Acta</i> , <b>2012</b> , 177, 465-471	5.8	9
29	"Mix-Then-On-Demand-Complex": Cascade Anionization and Complexation of Graphene Oxide for High-Performance Nanofiltration Membranes. <i>ACS Nano</i> , <b>2021</b> , 15, 4440-4449	16.7	9
28	Fluorene-fused ladder-type non-fullerene small molecule acceptors for high-performance polymer solar cells. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 709-715	7.8	8
27	Highly efficient polymer solar cells by step-by-step optimizing donor molecular packing and acceptor redistribution. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 19, 709-716	3.6	8
26	Tfh cell-mediated humoral immune response and HBsAg level can predict HBeAg seroconversion in chronic hepatitis B patients receiving peginterferon- $\alpha$ therapy. <i>Molecular Immunology</i> , <b>2016</b> , 73, 37-45	4.3	8
25	Dramatically Boosted Efficiency of Small Molecule Solar Cells by Synergistically Optimizing Molecular Aggregation and Crystallinity. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 1982-1989	8.3	7
24	Adjusting acceptor redistribution for highly efficient solvent additive-free polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 3202-3208	7.1	7
23	Gas chromatographic determination of three chlorophenols in toilet paper by ultrasonic assisted extraction and synchronous derivative dispersive liquid-liquid microextraction. <i>Analytical Methods</i> , <b>2014</b> , 6, 207-214	3.2	7
22	Solution-Processed Graphene Composite Films as Freestanding Platinum-Free Counter Electrodes for Bendable Dye Sensitized Solar Cells. <i>Chinese Journal of Chemistry</i> , <b>2016</b> , 34, 59-66	4.9	7
21	Effects of the seasonal flooding on riparian soil seed bank in the Three Gorges Reservoir Region: a case study in Shanmu River. <i>SpringerPlus</i> , <b>2016</b> , 5, 492		5
20	A novel 9H-indeno[1,2-b]pyrazine-2,3-dicarbonitrile end group for an efficient non-fullerene small molecule acceptor. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10111-10118	7.1	5
19	The soil seed bank of a rehabilitated draw-down zone and its similarity to standing vegetation in the Three Gorges Reservoir Area. <i>Ecological Research</i> , <b>2017</b> , 32, 1011-1021	1.9	5
18	Multitasking tartaric-acid-enabled, highly conductive, and stable MXene/conducting polymer composite for ultrafast supercapacitor. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100449	6.1	4



17	A transport channel-regulated MXene membrane organic phosphonic acids for efficient water permeation. <i>Chemical Communications</i> , <b>2021</b> , 57, 6245-6248	5.8	4
16	Efficient Polymer Solar Cells with Open-Circuit Voltage of 1.01 V and Power Conversion Efficiency of 8.09. <i>ACS Omega</i> , <b>2018</b> , 3, 11562-11568	3.9	4
15	Seed rain and seed bank of a draw-down zone and their similarities to vegetation under the regulated water-level fluctuation in Xiangxi River. <i>Journal of Freshwater Ecology</i> , <b>2020</b> , 35, 57-71	1.4	3
14	Analysis of two anti-tumor active ingredients in <i>Radix Actinidiae chinensis</i> by dispersive liquid-liquid microextraction coupled to high performance liquid chromatography-mass spectrometry. <i>Analytical Methods</i> , <b>2013</b> , 5, 5227	3.2	3
13	Bridged Carbon Fabric Membrane with Boosted Performance in AC Line-Filtering Capacitors.. <i>Advanced Science</i> , <b>2022</b> , e2105072	13.6	3
12	Ultratough and ultrastrong graphene oxide hybrid films via a polycationitrile approach. <i>Nanoscale Horizons</i> , <b>2021</b> , 6, 341-347	10.8	3
11	Nanodancing with Moisture: Humidity-Sensitive Bilayer Actuator Derived from Cellulose Nanofibrils and Reduced Graphene Oxide. <i>Advanced Intelligent Systems</i> , 2100084	6	3
10	Preparation of aloe polysaccharide/honey/PVA composite hydrogel: Antibacterial activity and promoting wound healing.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 211, 249-258	7.9	3
9	Immunogenicity of Hepatitis B Vaccine in Preterm or Low Birth Weight Infants: A Meta-Analysis. <i>American Journal of Preventive Medicine</i> , <b>2020</b> , 59, 278-287	6.1	2
8	Determination of trace fungicides in environmental water samples using poly(HPMA-EDMA) monolith microextraction coupled to high performance liquid chromatography. <i>Analytical Methods</i> , <b>2014</b> , 6, 4783-4789	3.2	2
7	Hydrazine Oxidation Reaction: Porous Carbon Membrane-Supported Atomically Dispersed Pyrrole-Type Fe <sub>3</sub> N <sub>4</sub> as Active Sites for Electrochemical Hydrazine Oxidation Reaction (Small 31/2020). <i>Small</i> , <b>2020</b> , 16, 2070171	11	2
6	Biomimetic Graphite Foils with High Foldability and Conductivity. <i>Small Methods</i> , <b>2019</b> , 3, 1800282	12.8	1
5	Ultra-Sensitive, Rapid and On-Site Sensing Harmful Ingredients Used in Aquaculture with Magnetic Fluid SERS.. <i>Biosensors</i> , <b>2022</b> , 12,	5.9	1
4	Poly(ionic liquid)-Armored MXene Membrane: Interlayer Engineering for Facilitated Water Transport.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> , e202202515	16.4	1
3	Preparation of Plasmonic Ag@PS Composite Seed-Mediated Growth Method and Application in SERS.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 847203	5	0
2	Overt and occult hepatitis B infection after neonatal vaccination: mother-to-infant transmission and HBV vaccine effectiveness. <i>International Journal of Infectious Diseases</i> , <b>2021</b> , 104, 601-609	10.5	
1	A detection method for granary storage states based on a support vector machine and domain knowledge. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , <b>2021</b> , 71, 45-51	1.1	