

# Miao Zhang

## List of Publications by Year in descending order

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110  
papers

9,697  
citations

38742

50  
h-index

36028

97  
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111  
all docs

111  
docs citations

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times ranked

12421  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanodancing with Moisture: Humidity-sensitive Bilayer Actuator Derived from Cellulose Nanofibrils and Reduced Graphene Oxide. <i>Advanced Intelligent Systems</i> , 2022, 4, 2100084.	6.1	15
2	Bridged Carbon Fabric Membrane with Boosted Performance in AC Line-filtering Capacitors. <i>Advanced Science</i> , 2022, 9, e2105072.	11.2	10
3	Ultra-Sensitive, Rapid and On-Site Sensing Harmful Ingredients Used in Aquaculture with Magnetic Fluid SERS. <i>Biosensors</i> , 2022, 12, 169.	4.7	5
4	Preparation of Plasmonic Ag@PS Composite via Seed-Mediated In Situ Growth Method and Application in SERS. <i>Frontiers in Chemistry</i> , 2022, 10, 847203.	3.6	5
5	Liquid Metal Fiber Mat as a Highly Stable Solid-State Junction for Inkjet-Printed Flexible Reference Electrodes. <i>Analytical Chemistry</i> , 2022, 94, 6728-6735.	6.5	5
6	Poly(ionic liquid)-Armored MXene Membrane: Interlayer Engineering for Facilitated Water Transport. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
7	Poly(ionic liquid)-Armored MXene Membrane: Interlayer Engineering for Facilitated Water Transport. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202202515.	13.8	27
8	Preparation of aloe polysaccharide/honey/PVA composite hydrogel: Antibacterial activity and promoting wound healing. <i>International Journal of Biological Macromolecules</i> , 2022, 211, 249-258.	7.5	25
9	Mo, Fe bimetallic carbide composite as high stability electrocatalyst for oxygen reduction reaction. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108052.	6.7	15
10	From wood to thin porous carbon membrane: Ancient materials for modern ultrafast electrochemical capacitors in alternating current line filtering. <i>Energy Storage Materials</i> , 2021, 35, 327-333.	18.0	25
11	Ultratough and ultrastrong graphene oxide hybrid films via a polycationitrile approach. <i>Nanoscale Horizons</i> , 2021, 6, 341-347.	8.0	6
12	Janus-interface engineering boosting solar steam towards high-efficiency water collection. <i>Energy and Environmental Science</i> , 2021, 14, 5330-5338.	30.8	122
13	A transport channel-regulated MXene membrane via organic phosphonic acids for efficient water permeation. <i>Chemical Communications</i> , 2021, 57, 6245-6248.	4.1	17
14	"Mix-Then-On-Demand-Complex" In Situ Cascade Anionization and Complexation of Graphene Oxide for High-Performance Nanofiltration Membranes. <i>ACS Nano</i> , 2021, 15, 4440-4449.	14.6	26
15	Overt and occult hepatitis B infection after neonatal vaccination: mother-to-infant transmission and HBV vaccine effectiveness. <i>International Journal of Infectious Diseases</i> , 2021, 104, 601-609.	3.3	2
16	Reduced Graphene Oxide-Poly (Ionic Liquid) Composite Films of High Mechanical Performance. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	2
17	Multitasking tartaric-acid-enabled, highly conductive, and stable MXene/conducting polymer composite for ultrafast supercapacitor. <i>Cell Reports Physical Science</i> , 2021, 2, 100449.	5.6	19
18	Alginate-chitosan oligosaccharide-ZnO composite hydrogel for accelerating wound healing. <i>Carbohydrate Polymers</i> , 2021, 266, 118100.	10.2	132

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19	Ultrasonic treatment increased functional properties and in vitro digestion of actomyosin complex during meat storage. <i>Food Chemistry</i> , 2021, 352, 129398.	8.2	52
20	Review on smart strategies for achieving highly efficient ternary polymer solar cells. <i>APL Materials</i> , 2020, 8, .	5.1	18
21	Alginate hydrogel dressings for advanced wound management. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 1414-1428.	7.5	257
22	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> , 2020, 16, 2070171.	10.0	2
23	Polymer-Derived Heteroatom-Doped Porous Carbon Materials. <i>Chemical Reviews</i> , 2020, 120, 9363-9419.	47.7	492
24	Immunogenicity of Hepatitis B Vaccine in Preterm or Low Birth Weight Infants: A Meta-Analysis. <i>American Journal of Preventive Medicine</i> , 2020, 59, 278-287.	3.0	11
25	Porous Carbon Membrane-Supported Atomically Dispersed Pyrrole-Type Fe <sub>3</sub> N <sub>4</sub> as Active Sites for Electrochemical Hydrazine Oxidation Reaction. <i>Small</i> , 2020, 16, e2002203.	10.0	34
26	A Microfluidic Biosensor Based on Magnetic Nanoparticle Separation, Quantum Dots Labeling and MnO <sub>2</sub> Nanoflower Amplification for Rapid and Sensitive Detection of Salmonella Typhimurium. <i>Micromachines</i> , 2020, 11, 281.	2.9	40
27	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> , 2020, 35, 57-71.	1.2	6
28	Highly Ordered Graphene Solid: An Efficient Platform for Capacitive Sodium-Ion Storage with Ultrahigh Volumetric Capacity and Superior Rate Capability. <i>ACS Nano</i> , 2019, 13, 9161-9170.	14.6	53
29	13.26% Efficiency Polymer Solar Cells by Optimizing Photogenerated Exciton Distribution and Phase Separation with the Third Component. <i>Solar Rrl</i> , 2019, 3, 1900269.	5.8	12
30	A novel 9 <i>H</i> -indeno[1,2- <i>b</i> ]pyrazine-2,3-dicarbonitrile end group for an efficient non-fullerene small molecule acceptor. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10111-10118.	5.5	6
31	Arbitrary waveform AC line filtering applicable to hundreds of volts based on aqueous electrochemical capacitors. <i>Nature Communications</i> , 2019, 10, 2855.	12.8	65
32	Poly(Ionic Liquid)-Derived Graphitic Nanoporous Carbon Membrane Enables Superior Supercapacitive Energy Storage. <i>ACS Nano</i> , 2019, 13, 10261-10271.	14.6	46
33	Fused-Ring Core Engineering for Small Molecule Acceptors Enable High-Performance Nonfullerene Polymer Solar Cells. <i>Small Methods</i> , 2019, 3, 1900280.	8.6	17
34	Fluorene-fused ladder-type non-fullerene small molecule acceptors for high-performance polymer solar cells. <i>Materials Chemistry Frontiers</i> , 2019, 3, 709-715.	5.9	11
35	Achieving 14.11% efficiency of ternary polymer solar cells by simultaneously optimizing photon harvesting and exciton distribution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7843-7851.	10.3	130
36	Biomimetic Graphite Foils with High Foldability and Conductivity. <i>Small Methods</i> , 2019, 3, 1800282.	8.6	1

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37	Suppressing the Self-Discharge of Supercapacitors by Modifying Separators with an Ionic Polyelectrolyte. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701547.	3.7	42
38	Efficient ternary non-fullerene polymer solar cells with PCE of 11.92% and FF of 76.5%. <i>Energy and Environmental Science</i> , 2018, 11, 841-849.	30.8	210
39	Energy level modulation of non-fullerene acceptors enables efficient organic solar cells with small energy loss. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2468-2475.	10.3	145
40	Efficient Ternary Polymer Solar Cells with Two Well-Compatible Donors and One Ultranarrow Bandgap Nonfullerene Acceptor. <i>Advanced Energy Materials</i> , 2018, 8, 1702854.	19.5	195
41	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> , 2018, 3, 555-561.	17.4	161
42	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> , 2018, 11, 559-565.	30.8	119
43	Hydrogen Evolution Reaction in Alkaline Media: Alpha- or Beta-Nickel Hydroxide on the Surface of Platinum?. <i>ACS Energy Letters</i> , 2018, 3, 237-244.	17.4	230
44	A Large-Scale Graphene-Bimetal Film Electrode with an Ultrahigh Mass Catalytic Activity for Durable Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1800403.	19.5	29
45	Tailoring the oxygenated groups of graphene hydrogels for high-performance supercapacitors with large areal mass loadings. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6587-6594.	10.3	54
46	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> , 2018, 6, 21485-21492.	10.3	80
47	Efficient Polymer Solar Cells with Open-Circuit Voltage of 1.01 V and Power Conversion Efficiency of 8.09%. <i>ACS Omega</i> , 2018, 3, 11562-11568.	3.5	6
48	Efficient Ternary Organic Solar Cells with Two Compatible Non-Fullerene Materials as One Alloyed Acceptor. <i>Small</i> , 2018, 14, e1802983.	10.0	55
49	Over 13% Efficiency Ternary Nonfullerene Polymer Solar Cells with Tilted Up Absorption Edge by Incorporating a Medium Bandgap Acceptor. <i>Advanced Energy Materials</i> , 2018, 8, 1801968.	19.5	167
50	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> , 2018, 6, 11751-11758.	10.3	30
51	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> , 2018, 11, 2134-2141.	30.8	223
52	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> , 2018, 30, e1800052.	21.0	252
53	Inhibiting the growth of lithium dendrites at high current densities with oriented graphene foam. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15603-15609.	10.3	25
54	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> , 2018, 9, 8142-8149.	7.4	67

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55	Organic Photodetectors with Gain and Broadband/Narrowband Response under Top/Bottom Illumination Conditions. <i>Advanced Optical Materials</i> , 2018, 6, 1800249.	7.3	108
56	High-quality graphene films and nitrogen-doped organogels prepared from the organic dispersions of graphene oxide. <i>Carbon</i> , 2018, 129, 15-20.	10.3	18
57	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> , 2017, 5, 3589-3598.	10.3	173
58	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> , 2017, 9, 8863-8871.	8.0	32
59	Highly Narrowband Photomultiplication Type Organic Photodetectors. <i>Nano Letters</i> , 2017, 17, 1995-2002.	9.1	278
60	NiFe Alloy Protected Silicon Photoanode for Efficient Water Splitting. <i>Advanced Energy Materials</i> , 2017, 7, 1601805.	19.5	109
61	Ultrahigh Conductivity Polymer Hydrogels with Arbitrary Structures. <i>Advanced Materials</i> , 2017, 29, 1700974.	21.0	290
62	Graphene-Based Organic Electrochemical Capacitors for AC Line Filtering. <i>Advanced Energy Materials</i> , 2017, 7, 1700591.	19.5	64
63	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> , 2017, 5, 13145-13153.	10.3	65
64	Dramatically Boosted Efficiency of Small Molecule Solar Cells by Synergistically Optimizing Molecular Aggregation and Crystallinity. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1982-1989.	6.7	10
65	A small graphene oxide sheet/polyvinylidene fluoride bilayer actuator with large and rapid responses to multiple stimuli. <i>Nanoscale</i> , 2017, 9, 17465-17470.	5.6	65
66	Topological Design of Ultrastrong and Highly Conductive Graphene Films. <i>Advanced Materials</i> , 2017, 29, 1702831.	21.0	108
67	Highly Sensitive Low Bandgap Perovskite Photodetectors with Response from Ultraviolet to the Near-Infrared Region. <i>Advanced Functional Materials</i> , 2017, 27, 1703953.	14.9	148
68	Graphene oxide induced hydrothermal carbonization of egg proteins for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17040-17047.	10.3	74
69	Organic dispersions of graphene oxide with arbitrary concentrations and improved chemical stability. <i>Chemical Communications</i> , 2017, 53, 11005-11007.	4.1	20
70	Graphene-based smart materials. <i>Nature Reviews Materials</i> , 2017, 2, .	48.7	569
71	The soil seed bank of a rehabilitated drawdown zone and its similarity to standing vegetation in the Three Gorges Reservoir Area. <i>Ecological Research</i> , 2017, 32, 1011-1021.	1.5	7
72	Graphene-based electrochemical capacitors with integrated high-performance. <i>Materials Today Energy</i> , 2017, 6, 181-188.	4.7	40

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73	An ultrasensitive moisture driven actuator based on small flakes of graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 418-422.	7.8	36
74	Highly efficient polymer solar cells by step-by-step optimizing donor molecular packing and acceptor redistribution. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 709-716.	2.8	8
75	Highly Conductive Stretchable Electrodes Prepared by In Situ Reduction of Wavy Graphene Oxide Films Coated on Elastic Tapes. <i>Advanced Electronic Materials</i> , 2016, 2, 1600022.	5.1	40
76	A Flexible UV-Vis-NIR Photodetector based on a Perovskite/Conjugated Polymer Composite. <i>Advanced Materials</i> , 2016, 28, 5969-5974.	21.0	329
77	Tfh cell-mediated humoral immune response and HBsAg level can predict HBsAg seroconversion in chronic hepatitis B patients receiving peginterferon- $\alpha$ therapy. <i>Molecular Immunology</i> , 2016, 73, 37-45.	2.2	9
78	Circulating T follicular helper cells are associated with rapid virological response in chronic hepatitis C patients undergoing peginterferon therapy. <i>International Immunopharmacology</i> , 2016, 34, 235-243.	3.8	17
79	An ultrahigh-rate electrochemical capacitor based on solution-processed highly conductive PEDOT:PSS films for AC line-filtering. <i>Energy and Environmental Science</i> , 2016, 9, 2005-2010.	30.8	142
80	Synthesis of graphene oxide sheets with controlled sizes from sieved graphite flakes. <i>Carbon</i> , 2016, 110, 34-40.	10.3	77
81	Reduced Graphene Oxide Membranes for Ultrafast Organic Solvent Nanofiltration. <i>Advanced Materials</i> , 2016, 28, 8669-8674.	21.0	349
82	Solution-Processed Graphene Composite Films as Freestanding Platinum-Free Counter Electrodes for Bendable Dye Sensitized Solar Cells. <i>Chinese Journal of Chemistry</i> , 2016, 34, 59-66.	4.9	8
83	Nitrogen-Doped Holey Graphene Film-Based Ultrafast Electrochemical Capacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 20741-20747.	8.0	79
84	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> , 2016, 4, 7809-7816.	5.5	12
85	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> , 2016, 5, 492.	1.2	8
86	Nitrogen and Sulfur Codoped Graphite Foam as a Self-Supported Metal-Free Electrocatalytic Electrode for Water Oxidation. <i>Advanced Energy Materials</i> , 2016, 6, 1501492.	19.5	153
87	Mildly reduced less defective graphene oxide/sulfur/carbon nanotube composite films for high-performance lithium-sulfur batteries. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11104-11110.	2.8	30
88	Photomultiplication photodetectors with P3HT:fullerene-free material as the active layers exhibiting a broad response. <i>Nanoscale</i> , 2016, 8, 5578-5586.	5.6	77
89	Adjusting acceptor redistribution for highly efficient solvent additive-free polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3202-3208.	5.5	8
90	Water-enhanced oxidation of graphite to graphene oxide with controlled species of oxygenated groups. <i>Chemical Science</i> , 2016, 7, 1874-1881.	7.4	251

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91	Graphene-Based Materials for Lithium-Ion Hybrid Supercapacitors. <i>Advanced Materials</i> , 2015, 27, 5296-5308.	21.0	424
92	Multifunctional Pristine Chemically Modified Graphene Films as Strong as Stainless Steel. <i>Advanced Materials</i> , 2015, 27, 6708-6713.	21.0	157
93	A high-performance three-dimensional Ni-Fe layered double hydroxide/graphene electrode for water oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6921-6928.	10.3	291
94	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> , 2015, 3, 7386-7393.	5.5	72
95	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> , 2015, 3, 18380-18383.	10.3	28
96	A General Route to Robust Nacre-Like Graphene Oxide Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 15010-15016.	8.0	48
97	Graphene-Based Membranes for Molecular Separation. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2806-2815.	4.6	316
98	Trap-Assisted Photomultiplication Polymer Photodetectors Obtaining an External Quantum Efficiency of 37-500%. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 5890-5897.	8.0	118
99	Efficient ternary polymer solar cells with a parallel-linkage structure. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11930-11936.	5.5	33
100	High-Quality Graphene Ribbons Prepared from Graphene Oxide Hydrogels and Their Application for Strain Sensors. <i>ACS Nano</i> , 2015, 9, 12320-12326.	14.6	148
101	Ultralight free-standing reduced graphene oxide membranes for oil-in-water emulsion separation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20113-20117.	10.3	101
102	Solution-Processed PEDOT:PSS/Graphene Composites as the Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 3587-3593.	8.0	115
103	Gas chromatographic determination of three chlorophenols in toilet paper by ultrasonic assisted extraction and synchronous derivative dispersive liquid-liquid microextraction. <i>Analytical Methods</i> , 2014, 6, 207-214.	2.7	8
104	Ultratough, Ultrastrong, and Highly Conductive Graphene Films with Arbitrary Sizes. <i>Advanced Materials</i> , 2014, 26, 7588-7592.	21.0	182
105	Determination of trace fungicides in environmental water samples using poly(HPMA-EDMA) monolith microextraction coupled to high performance liquid chromatography. <i>Analytical Methods</i> , 2014, 6, 4783-4789.	2.7	2
106	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> , 2013, 5, 5227.	2.7	3
107	Application of Dispersive Liquid-Liquid 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> , 2012, 40, 1326-1333.	1.1	15
108	Ionic liquid magnetic bar microextraction and HPLC determination of carbamate pesticides in real water samples. <i>Mikrochimica Acta</i> , 2012, 179, 193-199.	5.0	11

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109	Ultrasound-assisted headspace ionic-liquid microextraction of polycyclic aromatic hydrocarbons at elevated temperatures. <i>Mikrochimica Acta</i> , 2012, 177, 465-471.	5.0	9
110	Multitasking Tartaric Acid-Enabled Highly Conductive, Stable Titanium Carbide MXene/PEDOT:PSS Composite for Ultrafast Supercapacitor. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0