

# Yi-Zhou Zhang

## 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.

74  
papers

5,908  
citations

38  
h-index

75  
g-index

75  
ext. papers

7,578  
ext. citations

14.7  
avg, IF

6.34  
L-index

#	Paper	IF	Citations
74	MXenes for Energy Harvesting.. <i>Advanced Materials</i> , <b>2022</b> , e2108560	24	13
73	Ionically Conductive Tunnels in h-WO Enable High-Rate NH Storage.. <i>Advanced Science</i> , <b>2022</b> , e2105158	13.6	6
72	Printed Flexible Supercapacitors <b>2022</b> , 235-260		
71	Additive-mediated intercalation and surface modification of MXenes.. <i>Chemical Society Reviews</i> , <b>2022</b> ,	58.5	9
70	Artificial intelligent optoelectronic skin with anisotropic electrical and optical responses for multi-dimensional sensing. <i>Applied Physics Reviews</i> , <b>2022</b> , 9, 021403	17.3	10
69	Recent progress in advanced flexible zinc ion battery design. <i>Applied Physics Reviews</i> , <b>2022</b> , 9, 021304	17.3	5
68	Properties of MXenes. <i>Engineering Materials</i> , <b>2022</b> , 37-52	0.4	
67	Muscle Fatigue Sensor Based on Ti C T MXene Hydrogel.. <i>Small Methods</i> , <b>2021</b> , 5, e2100819	12.8	5
66	Printable Electrode Materials for Supercapacitors <b>2021</b> , 1, 17-17		3
65	Tunable capacitance in all-inkjet-printed nanosheet heterostructures. <i>Energy Storage Materials</i> , <b>2021</b> , 36, 318-325	19.4	8
64	Conductive Hydrogel-Based Electrodes and Electrolytes for Stretchable and Self-Healable Supercapacitors. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101303	15.6	52
63	TiCT MXene-Activated Fast Gelation of Stretchable and Self-Healing Hydrogels: A Molecular Approach. <i>ACS Nano</i> , <b>2021</b> , 15, 2698-2706	16.7	52
62	Printable Two-Dimensional V2O5/MXene Heterostructure Cathode for Lithium-Ion Battery. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 020507	3.9	1
61	Recent advances in two-dimensional materials for alkali metal anodes. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5232-5257	13	16
60	Codoped Holey Graphene Aerogel by Selective Etching for High-Performance Sodium-Ion Storage. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000099	21.8	29
59	MXene Printing and Patterned Coating for Device Applications. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908486	24	116
58	Ultrasound-Driven Two-Dimensional TiCT MXene Hydrogel Generator. <i>ACS Nano</i> , <b>2020</b> , 14, 3199-3207	16.7	43

57	MXene improves the stability and electrochemical performance of electropolymerized PEDOT films. <i>APL Materials</i> , <b>2020</b> , 8, 121105	5.7	7
56	Inkjet-printed Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene electrodes for multimodal cutaneous biosensing. <i>JPhys Materials</i> , <b>2020</b> , 3, 044004	4.2	10
55	Defect engineering of MnO <sub>2</sub> nanosheets by substitutional doping for printable solid-state micro-supercapacitors. <i>Nano Energy</i> , <b>2020</b> , 68, 104306	17.1	47
54	MXene hydrogels: fundamentals and applications. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 7229-7251	58.5	135
53	Emerging Metal Single Atoms in Electrocatalysts and Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003870	15.6	25
52	A novel strategy for the synthesis of highly stable ternary SiO <sub>x</sub> composites for Li-ion-battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 15969-15974	13	89
51	Bioinspired Controlled Synthesis of NiSe/Ni <sub>2</sub> P Nanoparticles Decorated 3D Porous Carbon for Li/Na Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 13217-13225	8.3	22
50	On-Chip MXene Microsupercapacitors for AC-Line Filtering Applications. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901061	21.8	64
49	Three-Dimensional Co <sub>3</sub> B Nanoflowers as Highly Stable Electrode Materials for Asymmetric Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 11448-11454	8.3	23
48	Printed supercapacitors: materials, printing and applications. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 3229-3364	36.5	222
47	A MXene-Based Wearable Biosensor System for High-Performance In Vitro Perspiration Analysis. <i>Small</i> , <b>2019</b> , 15, e1901190	11	157
46	Inkjet-Printed High-Performance Flexible Micro-Supercapacitors with Porous Nanofiber-Like Electrode Structures. <i>Small</i> , <b>2019</b> , 15, e1901830	11	54
45	Highly stretchable and autonomously healable epidermal sensor based on multi-functional hydrogel frameworks. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 5949-5956	13	109
44	Partially Reduced Holey Graphene Oxide as High Performance Anode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803215	21.8	68
43	A flexible pressure sensor based on rGO/polyaniline wrapped sponge with tunable sensitivity for human motion detection. <i>Nanoscale</i> , <b>2018</b> , 10, 10033-10040	7.7	170
42	Paper-based all-solid-state flexible asymmetric micro-supercapacitors fabricated by a simple pencil drawing methodology. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 587-591	8.1	19
41	Printable Transparent Conductive Films for Flexible Electronics. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704738	24	338
40	Inkjet printing of MnO <sub>2</sub> nanosheets for flexible solid-state micro-supercapacitor. <i>Nano Energy</i> , <b>2018</b> , 49, 481-488	17.1	154

39	FeO/SnSSe Hexagonal Nanoplates as Lithium-Ion Batteries Anode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 12722-12730	9.5	38
38	Graphene as an intermediary for enhancing the electron transfer rate: A free-standing Ni <sub>3</sub> S <sub>2</sub> @graphene@Co <sub>9</sub> S <sub>8</sub> electrocatalytic electrode for oxygen evolution reaction. <i>Nano Research</i> , <b>2018</b> , 11, 1389-1398	10	38
37	Metal Organic Framework Derived CoreShell Structured Co <sub>9</sub> S <sub>8</sub> @Ni <sub>2</sub> Nanocubes for Supercapacitor. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 3513-3520	6.1	44
36	MXenes stretch hydrogel sensor performance to new limits. <i>Science Advances</i> , <b>2018</b> , 4, eaat0098	14.3	334
35	Stretchable Ti <sub>3</sub> C <sub>2</sub> MXene/Carbon Nanotube Composite Based Strain Sensor with Ultrahigh Sensitivity and Tunable Sensing Range. <i>ACS Nano</i> , <b>2018</b> , 12, 56-62	16.7	437
34	Stretchable, Transparent, and Self-Patterned Hydrogel-Based Pressure Sensor for Human Motions Detection. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802576	15.6	282
33	Carbon-intercalated Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene for high-performance electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 23513-23520	13	81
32	Template-Free Synthesis of Cobalt Silicate Nanoparticles Decorated Nanosheets for High Performance Lithium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 15591-15597	8.3	24
31	Versatile MnO <sub>2</sub> /CNT Putty-Like Composites for High-Rate Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800362	4.6	14
30	Controlled synthesis of nickel carbide nanoparticles and their application in lithium storage. <i>Chemical Engineering Journal</i> , <b>2018</b> , 352, 940-946	14.7	7
29	Redox-active triazatruxene-based conjugated microporous polymers for high-performance supercapacitors. <i>Chemical Science</i> , <b>2017</b> , 8, 2959-2965	9.4	103
28	Facile one-pot synthesis of NiCo <sub>2</sub> O <sub>4</sub> hollow spheres with controllable number of shells for high-performance supercapacitors. <i>Nano Research</i> , <b>2017</b> , 10, 405-414	10	57
27	Ternary transition metal oxide derived from Prussian blue analogue for high-performance lithium ion battery. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 729, 518-525	5.7	28
26	Fiber-based all-solid-state asymmetric supercapacitors based on Co <sub>3</sub> O <sub>4</sub> @MnO <sub>2</sub> core/shell nanowire arrays. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22939-22944	13	39
25	S-Doped TiSe Nanoplates/Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Heterostructure. <i>Small</i> , <b>2017</b> , 13, 1702181	11	16
24	Flexible Supercapacitors: A Simple Approach to Boost Capacitance: Flexible Supercapacitors Based on Manganese Oxides@MOFs via Chemically Induced In Situ Self-Transformation (Adv. Mater. 26/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 5241	24	14
23	3D Printed Microfluidic Device with Microporous MnO-Modified Screen Printed Electrode for Real-Time Determination of Heavy Metal Ions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 32940-32947	8.5	57
22	High-performance free-standing PEDOT:PSS electrodes for flexible and transparent all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10493-10499	13	158

21	A Simple Approach to Boost Capacitance: Flexible Supercapacitors Based on Manganese Oxides@MOFs via Chemically Induced In Situ Self-Transformation. <i>Advanced Materials</i> , <b>2016</b> , 28, 5242-8	24	190
20	Porous dimanganese trioxide microflowers derived from microcoordinations for flexible solid-state asymmetric supercapacitors. <i>Nanoscale</i> , <b>2016</b> , 8, 11689-97	7.7	28
19	Template-Assisted Synthesis of Nickel Sulfide Nanowires: Tuning the Compositions for Supercapacitors with Improved Electrochemical Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24645-51	9.5	66
18	Inkjet-printed flexible, transparent and aesthetic energy storage devices based on PEDOT:PSS/Ag grid electrodes. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13754-13763	13	130
17	Room temperature synthesis of cobalt-manganese-nickel oxalates micropolyhedrons for high-performance flexible electrochemical energy storage device. <i>Scientific Reports</i> , <b>2015</b> , 5, 8536	4.9	46
16	Lamellar $K_2Co_3(P_2O_7)_2 \cdot 2H_2O$ nanocrystal whiskers: High-performance flexible all-solid-state asymmetric micro-supercapacitors via inkjet printing. <i>Nano Energy</i> , <b>2015</b> , 15, 303-312	17.1	153
15	Flexible supercapacitors based on paper substrates: a new paradigm for low-cost energy storage. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 5181-99	58.5	455
14	Stretchable Thin-Film Electrodes for Flexible Electronics with High Deformability and Stretchability. <i>Advanced Materials</i> , <b>2015</b> , 27, 3349-76	24	333
13	Amorphous nickel pyrophosphate microstructures for high-performance flexible solid-state electrochemical energy storage devices. <i>Nano Energy</i> , <b>2015</b> , 17, 339-347	17.1	117
12	Uniform manganese hexacyanoferrate hydrate nanocubes featuring superior performance for low-cost supercapacitors and nonenzymatic electrochemical sensors. <i>Nanoscale</i> , <b>2015</b> , 7, 16012-9	7.7	79
11	A Rapid Synthesis of High Aspect Ratio Silver Nanowires for High-Performance Transparent Electrodes. <i>Chinese Journal of Chemistry</i> , <b>2015</b> , 33, 147-151	4.9	8
10	Single-crystalline hyperbranched nanostructure of iron hydroxyl phosphate $Fe_5(PO_4)_4(OH)_3 \cdot 3H_2O$ for highly selective capture of phosphopeptides. <i>Scientific Reports</i> , <b>2014</b> , 4, 3753	4.9	13
9	High-performance stretchable transparent electrodes based on silver nanowires synthesized via an eco-friendly halogen-free method. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 10369-10376	7.1	84
8	Porous hollow $Co_3O_4$ with rhombic dodecahedral structures for high-performance supercapacitors. <i>Nanoscale</i> , <b>2014</b> , 6, 14354-9	7.7	215
7	Selective synthesis of nickel oxide nanowires and length effect on their electrochemical properties. <i>Nanoscale</i> , <b>2010</b> , 2, 920-2	7.7	91
6	MXenes nanocomposites for energy storage and conversion. <i>Rare Metals</i> , 1	5.5	5
5	Advances and Perspectives for the Application of Perovskite Oxides in Supercapacitors. <i>Energy &amp; Fuels</i> ,	4.1	4
4	Recent advances in anode materials for potassium-ion batteries: A review. <i>Nano Research</i> , 1	10	23

3	Conversion of hydroxide into carbon-coated phosphide using plasma for sodium ion batteries. <i>Nano Research</i> ,1	10	1
2	3D Printing of Hydrogels for Stretchable Ionotronic Devices. <i>Advanced Functional Materials</i> ,2107437	15.6	10
1	Improving stability of MXenes. <i>Nano Research</i> ,	10	4