

# Wei Yang

## List of Publications by Citations

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62

papers

5,189

citations

37

h-index

65

g-index

65

ext. papers

6,761

ext. citations

10.1

avg, IF

5.9

L-index

#	Paper	IF	Citations
62	Highly Durable NaVO <sub>2</sub> .63HO Nanowire Cathode for Aqueous Zinc-Ion Battery. <i>Nano Letters</i> , <b>2018</b> , 18, 1758-1763	11.5	403
61	High-Performance Aqueous Zinc-Ion Battery Based on Layered H V O Nanowire Cathode. <i>Small</i> , <b>2017</b> , 13, 1702551	11	335
60	Hybrid graphene aerogels/phase change material composites: Thermal conductivity, shape-stabilization and light-to-thermal energy storage. <i>Carbon</i> , <b>2016</b> , 100, 693-702	10.4	263
59	Modular pathway engineering of diterpenoid synthases and the mevalonic acid pathway for miltiradiene production. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 3234-41	16.4	259
58	Thermal and mechanical properties of chemical crosslinked polylactide (PLA). <i>Polymer Testing</i> , <b>2008</b> , 27, 957-963	4.5	252
57	A review on fundamental of high entropy alloys with promising high temperature properties. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 760, 15-30	5.7	231
56	Largely enhanced thermal conductivity of poly (ethylene glycol)/boron nitride composite phase change materials for solar-thermal-electric energy conversion and storage with very low content of graphene nanoplatelets. <i>Chemical Engineering Journal</i> , <b>2017</b> , 315, 481-490	14.7	168
55	Hierarchical graphene foam-based phase change materials with enhanced thermal conductivity and shape stability for efficient solar-to-thermal energy conversion and storage. <i>Nano Research</i> , <b>2017</b> , 10, 802-813	10	153
54	Enhanced comprehensive performance of polyethylene glycol based phase change material with hybrid graphene nanomaterials for thermal energy storage. <i>Carbon</i> , <b>2015</b> , 88, 196-205	10.4	147
53	An ice-templated assembly strategy to construct graphene oxide/boron nitride hybrid porous scaffolds in phase change materials with enhanced thermal conductivity and shape stability for light thermal electric energy conversion. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18841-18851	13	145
52	Polyethylene glycol based shape-stabilized phase change material for thermal energy storage with ultra-low content of graphene oxide. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 123, 171-177	6.4	145
51	Defect-Rich Soft Carbon Porous Nanosheets for Fast and High-Capacity Sodium-Ion Storage. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803260	21.8	143
50	Ultrafine Nickel-Nanoparticle-Enabled SiO <sub>2</sub> Hierarchical Hollow Spheres for High-Performance Lithium Storage. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704561	15.6	142
49	Ultrastable and High-Performance Zn/VO <sub>2</sub> Battery Based on a Reversible Single-Phase Reaction. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 699-706	9.6	139
48	Macroporous three-dimensional MXene architectures for highly efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 10446-10455	13	138
47	A multilevel adaptive finite element algorithm for bioluminescence tomography. <i>Optics Express</i> , <b>2006</b> , 14, 8211-23	3.3	132
46	Novel photodriven composite phase change materials with bioinspired modification of BN for solar-thermal energy conversion and storage. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9625-9634	13	126

45	Hybridizing graphene aerogel into three-dimensional graphene foam for high-performance composite phase change materials. <i>Energy Storage Materials</i> , <b>2018</b> , 13, 88-95	19.4	123
44	High-performance composite phase change materials for energy conversion based on macroscopically three-dimensional structural materials. <i>Materials Horizons</i> , <b>2019</b> , 6, 250-273	14.4	116
43	Flexible Anti-Biofouling MXene/Cellulose Fibrous Membrane for Sustainable Solar-Driven Water Purification. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 36589-36597	9.5	106
42	Transparent and ductile poly(lactic acid)/poly(butyl acrylate) (PBA) blends: Structure and properties. <i>European Polymer Journal</i> , <b>2012</b> , 48, 127-135	5.2	106
41	Smart TiCT MXene Fabric with Fast Humidity Response and Joule Heating for Healthcare and Medical Therapy Applications. <i>ACS Nano</i> , <b>2020</b> , 14, 8793-8805	16.7	106
40	Multilayer structured AgNW/WPU-MXene fiber strain sensors with ultrahigh sensitivity and a wide operating range for wearable monitoring and healthcare. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 15913-15927	13.3	97
39	Carbon-MEMS-Based Alternating Stacked MoS <sub>2</sub> @rGO-CNT Micro-Supercapacitor with High Capacitance and Energy Density. <i>Small</i> , <b>2017</b> , 13, 1700639	11	90
38	Oxygen Vacancy-Determined Highly Efficient Oxygen Reduction in NiCoO/Hollow Carbon Spheres. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 16410-16417	9.5	88
37	All-weather-available, continuous steam generation based on the synergistic photo-thermal and electro-thermal conversion by MXene-based aerogels. <i>Materials Horizons</i> , <b>2020</b> , 7, 855-865	14.4	83
36	Spectrally resolved bioluminescence tomography with adaptive finite element analysis: methodology and simulation. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 4497-512	3.8	78
35	Polyethylene glycol/graphene oxide aerogel shape-stabilized phase change materials for photo-to-thermal energy conversion and storage via tuning the oxidation degree of graphene oxide. <i>Energy Conversion and Management</i> , <b>2017</b> , 146, 253-264	10.6	74
34	Pseudocapacitive titanium oxynitride mesoporous nanowires with iso-oriented nanocrystals for ultrahigh-rate sodium ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10827-10835	13	73
33	Ultrafine SiO <sub>2</sub> /C nanospheres and their pomegranate-like assemblies for high-performance lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 14903-14909	13	71
32	On-Chip Ni <sub>2</sub> Zn Microbattery Based on Hierarchical Ordered Porous Ni@Ni(OH) <sub>2</sub> Microelectrode with Ultrafast Ion and Electron Transport Kinetics. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808470	15.6	56
31	Sodium Ion Capacitor Using Pseudocapacitive Layered Ferric Vanadate Nanosheets Cathode. <i>IScience</i> , <b>2018</b> , 6, 212-221	6.1	53
30	Boosting piezoelectric response of PVDF-TrFE via MXene for self-powered linear pressure sensor. <i>Composites Science and Technology</i> , <b>2021</b> , 202, 108600	8.6	51
29	Co-Electrodeposited porous PEDOT-CNT microelectrodes for integrated micro-supercapacitors with high energy density, high rate capability, and long cycling life. <i>Nanoscale</i> , <b>2019</b> , 11, 7761-7770	7.7	49
28	1D Carbon-Based Nanocomposites for Electrochemical Energy Storage. <i>Small</i> , <b>2019</b> , 15, e1902348	11	46

27	General Oriented Synthesis of Precise Carbon-Confined Nanostructures by Low-Pressure Vapor Superassembly and Controlled Pyrolysis. <i>Nano Letters</i> , <b>2017</b> , 17, 7773-7781	11.5	46
26	Engineering NAD <sup>+</sup> availability for Escherichia coli whole-cell biocatalysis: a case study for dihydroxyacetone production. <i>Microbial Cell Factories</i> , <b>2013</b> , 12, 103	6.4	41
25	Hierarchically Porous PVA Aerogel for Leakage-Proof Phase Change Materials with Superior Energy Storage Capacity. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 2471-2479	4.1	34
24	The effects of dioctyl phthalate plasticization on the morphology and thermal, mechanical, and rheological properties of chemical crosslinked polylactide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2009</b> , 47, 1136-1145	2.6	33
23	Synthesis and application of synergistic azo-boron-BPA / polydopamine as efficient flame retardant for poly(lactic acid). <i>Polymer Degradation and Stability</i> , <b>2018</b> , 152, 64-74	4.7	31
22	Recent advances in polymer-based thermal interface materials for thermal management: A mini-review. <i>Composites Communications</i> , <b>2020</b> , 22, 100528	6.7	30
21	Strongly Coupled Pyridine-V O <sub>2</sub> /H <sub>2</sub> O Nanowires with Intercalation Pseudocapitance and Stabilized Layer for High Energy Sodium Ion Capacitors. <i>Small</i> , <b>2019</b> , 15, e1900379	11	26
20	An elegant coupling: Freeze-casting and versatile polymer composites. <i>Progress in Polymer Science</i> , <b>2020</b> , 109, 101289	29.6	26
19	Interwoven Nanowire Based On-Chip Asymmetric Microsupercapacitor with High Integrability, Areal Energy, and Power Density. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001873	21.8	18
18	Integration of VS <sub>2</sub> nanosheets into carbon for high energy density micro-supercapacitor. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 823, 151769	5.7	17
17	Mastering Complex Control in MOBA Games with Deep Reinforcement Learning. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2020</b> , 34, 6672-6679	5	16
16	Durable and super-hydrophilic/underwater super-oleophobic two-dimensional MXene composite lamellar membrane with photocatalytic self-cleaning property for efficient oil/water separation in harsh environments. <i>Journal of Membrane Science</i> , <b>2021</b> , 637, 119627	9.6	16
15	Scalable microfabrication of three-dimensional porous interconnected graphene scaffolds with carbon spheres for high-performance all carbon-based micro-supercapacitors. <i>Journal of Materiomics</i> , <b>2019</b> , 5, 303-312	6.7	11
14	Recent Advances in Multiresponsive Flexible Sensors towards E-skin: A Delicate Design for Versatile Sensing. <i>Small</i> , <b>2021</b> , e2103734	11	10
13	Low-entropy structured wearable film sensor with piezoresistive-piezoelectric hybrid effect for 3D mechanical signal screening. <i>Nano Energy</i> , <b>2021</b> , 90, 106603	17.1	8
12	Nano-silica modified phenolic resin film: manufacturing and properties. <i>Nanotechnology Reviews</i> , <b>2020</b> , 9, 209-218	6.3	6
11	Bi-functional super-hydrophilic/underwater super-oleophobic 2D lamellar TiCT MXene/poly (arylene ether nitrile) fibrous composite membrane for the fast purification of emulsified oil and photodegradation of hazardous organics.. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 612, 156-170	9.3	5
10	Interfacial Radiation-Absorbing Hydrogel Film for Efficient Thermal Utilization on Solar Evaporator Surfaces. <i>Nano Letters</i> , <b>2021</b> ,	11.5	5

9	A facile strategy toward hierarchically porous composite scaffold for osteosarcoma ablation and massive bone defect repair. <i>Composites Part B: Engineering</i> , <b>2022</b> , 234, 109660	10	3
8	Supervised Learning Achieves Human-Level Performance in MOBA Games: A Case Study of Honor of Kings. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , PP,	10.3	3
7	Morphologies, interfacial interaction and mechanical performance of super-tough nanostructured PK/PA6 blends. <i>Polymer Testing</i> , <b>2020</b> , 91, 106777	4.5	3
6	Influence of micro arc oxidation on high temperature oxidation resistance of AlTiCrVZr refractory high entropy alloy. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2021</b> , 98, 105562	4.1	3
5	Scalable Flexible Phase Change Materials with a Swollen Polymer Network Structure for Thermal Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	3
4	Three-dimensional bioluminescent source reconstruction method based on nodes of adaptive FEM <b>2008</b> ,		2
3	Spatial weighed element based FEM incorporating a priori information on bioluminescence tomography. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 874-82	0.9	1
2	Flexible three-dimensional-networked iron vanadate nanosheet arrays/carbon cloths as high-performance cathodes for magnesium ion batteries. <i>Science China Materials</i> ,1	7.1	1
1	Effect of Al content on the oxidation behavior of refractory high-entropy alloy AlMo <sub>0.5</sub> NbTa <sub>0.5</sub> TiZr at elevated temperatures. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2022</b> , 105, 105812	4.1	1