

Yabin Zhang

List of Publications by Year in descending order

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32
papers

2,144
citations

304743

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454955

30
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all docs

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docs citations

32
times ranked

3293
citing authors

#	ARTICLE	IF	CITATIONS
1	Full synergistic contribution of electrodeposited three-dimensional NiCo ₂ O ₄ @MnO ₂ nanosheet networks electrode for asymmetric supercapacitors. Nano Energy, 2016, 27, 627-637.	16.0	232
2	Advances in the theory of superhydrophobic surfaces. Journal of Materials Chemistry, 2012, 22, 20112.	6.7	177
3	Recent progress of double-structural and functional materials with special wettability. Journal of Materials Chemistry, 2012, 22, 799-815.	6.7	175
4	Real-time tracking of fluorescent magnetic spore-based microrobots for remote detection of <i>C. diff</i> toxins. Science Advances, 2019, 5, eaau9650.	10.3	169
5	Elucidating the Intercalation Pseudocapacitance Mechanism of MoS ₂ -Carbon Monolayer Interlayered Superstructure: Toward High-Performance Sodium-Ion-Based Hybrid Supercapacitor. ACS Applied Materials & Interfaces, 2017, 9, 32745-32755.	8.0	156
6	Engineering layer structure of MoS ₂ -graphene composites with robust and fast lithium storage for high-performance Li-ion capacitors. Energy Storage Materials, 2017, 9, 195-205.	18.0	153
7	Graphene-coupled Ti ₃ C ₂ MXenes-derived TiO ₂ mesostructure: promising sodium-ion capacitor anode with fast ion storage and long-term cycling. Journal of Materials Chemistry A, 2018, 6, 1017-1027.	10.3	133
8	Engineering metal organic framework derived 3D nanostructures for high performance hybrid supercapacitors. Journal of Materials Chemistry A, 2017, 5, 292-302.	10.3	118
9	Enhanced Removal of Toxic Heavy Metals Using Swarming Biohybrid Adsorbents. Advanced Functional Materials, 2018, 28, 1806340.	14.9	118
10	Micro/Nanomachines: from Functionalization to Sensing and Removal. Advanced Materials Technologies, 2019, 4, 1800636.	5.8	79
11	Bioinspired Superhydrophobic Fe ₃ O ₄ @Polydopamine@Ag Hybrid Nanoparticles for Liquid Marble and Oil Spill. Advanced Materials Interfaces, 2015, 2, 1500234.	3.7	76
12	Recent progress on micro- and nano-robots: towards in vivo tracking and localization. Quantitative Imaging in Medicine and Surgery, 2018, 8, 461-479.	2.0	64
13	A simple route to transform normal hydrophilic cloth into a superhydrophobic-superhydrophilic hybrid surface. Journal of Materials Chemistry A, 2014, 2, 7845-7852.	10.3	63
14	Versatile Nanoplatforms with enhanced Photodynamic Therapy: Designs and Applications. Theranostics, 2020, 10, 7287-7318.	10.0	58
15	Green synthesis of open porous NiO films with an excellent capacitance performance. Chemical Communications, 2014, 50, 3443.	4.1	56
16	Scalable and sustainable synthesis of carbon microspheres via a purification-free strategy for sodium-ion capacitors. Journal of Power Sources, 2018, 379, 33-40.	7.8	44
17	Programmable 3D printed wheat awn-like system for high-performance fogdrop collection. Chemical Engineering Journal, 2020, 399, 125139.	12.7	36
18	A fishbone-inspired liquid splitter enables directional droplet transportation and spontaneous separation. Journal of Materials Chemistry A, 2021, 9, 9719-9728.	10.3	31

#	ARTICLE	IF	CITATIONS
19	A hierarchical origami moisture collector with laser-textured microchannel array for a plug-and-play irrigation system. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5630-5638.	10.3	29
20	Conductive and transparent superhydrophobic films on various substrates by <i>in situ</i> deposition. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	26
21	Sodium storage in a promising MoS ₂ “carbon anode: elucidating structural and interfacial transitions in the intercalation process and conversion reactions. <i>Nanoscale</i> , 2018, 10, 11165-11175.	5.6	26
22	Spore-derived color-tunable multi-doped carbon nanodots as sensitive nanosensors and intracellular imaging agents. <i>Sensors and Actuators B: Chemical</i> , 2018, 271, 128-136.	7.8	24
23	Micromechanics of Lotus Fibers. <i>Chemistry Letters</i> , 2014, 43, 1137-1139.	1.3	22
24	Self-pumping and scalable fog collector with diode-like micro-hole arrays inspired by natural asymmetric wettability. <i>Applied Materials Today</i> , 2020, 21, 100851.	4.3	18
25	Self-Propelled and Electrobraking Synergetic Liquid Manipulator toward Microsampling and Bioanalysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14741-14751.	8.0	17
26	Facile carboxylation of natural eggshell membrane for highly selective uranium (VI) adsorption from radioactive wastewater. <i>Environmental Science and Pollution Research</i> , 2021, 28, 45134-45143.	5.3	16
27	Selective surface tension induced patterning on flexible textiles via click chemistry. <i>Nanoscale</i> , 2017, 9, 4777-4786.	5.6	11
28	pH-Responsive Wettable Fabrics with Hierarchical Structures. <i>Chemistry Letters</i> , 2014, 43, 553-555.	1.3	8
29	Automated Control of Multifunctional Magnetic Spores Using Fluorescence Imaging for Microbotic Cargo Delivery. , 2018, , .		4
30	An integrated separating system constructed by laser-patterned commercially available materials towards oily domestic sewage. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 621, 126566.	4.7	3
31	Nanoparticles: Bioinspired Superhydrophobic Fe ₃ O ₄ @Polydopamine@Ag Hybrid Nanoparticles for Liquid Marble and Oil Spill (<i>Adv. Mater. Interfaces</i> 13/2015). <i>Advanced Materials Interfaces</i> , 2015, 2, .	3.7	2
32	A composite guidance law through reference trajectory tracking for Mars entry guidance. , 2017, , .		0