

Zhenxing Wang

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34
papers

2,263
citations

23
h-index

35
g-index

35
ext. papers

2,879
ext. citations

11.3
avg, IF

5.6
L-index

#	Paper	IF	Citations
34	Mussel-Inspired Hybrid Coatings that Transform Membrane Hydrophobicity into High Hydrophilicity and Underwater Superoleophobicity for Oil-in-Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9534-45	9.5	219
33	Exploring the synergetic effects of graphene oxide (GO) and polyvinylpyrrolidone (PVP) on poly(vinylidene fluoride) (PVDF) ultrafiltration membrane performance. <i>Applied Surface Science</i> , 2014 , 316, 537-548	6.7	208
32	Mussel-Inspired Surface Engineering for Water-Remediation Materials. <i>Matter</i> , 2019 , 1, 115-155	12.7	183
31	One-step transformation of highly hydrophobic membranes into superhydrophilic and underwater superoleophobic ones for high-efficiency separation of oil-in-water emulsions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3391-3396	13	158
30	Simply realizing water diode Janus membranes for multifunctional smart applications. <i>Materials Horizons</i> , 2017 , 4, 701-708	14.4	151
29	Tuning the performance of polypyrrole-based solvent-resistant composite nanofiltration membranes by optimizing polymerization conditions and incorporating graphene oxide. <i>Journal of Membrane Science</i> , 2014 , 452, 82-89	9.6	148
28	Highly regenerable alkali-resistant magnetic nanoparticles inspired by mussels for rapid selective dye removal offer high-efficiency environmental remediation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19960-19968	13	124
27	A novel mussel-inspired strategy toward superhydrophobic surfaces for self-driven crude oil spill cleanup. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12171-12178	13	116
26	The nonmetal modulation of composition and morphology of g-C ₃ N ₄ -based photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118828	21.8	112
25	Construction of oil-unidirectional membrane for integrated oil collection with lossless transportation and oil-in-water emulsion purification. <i>Journal of Membrane Science</i> , 2018 , 549, 67-74	9.6	86
24	A simple, mild and versatile method for preparation of photothermal woods toward highly efficient solar steam generation. <i>Nano Energy</i> , 2020 , 71, 104650	17.1	78
23	Tannic acid encountering ovalbumin: a green and mild strategy for superhydrophilic and underwater superoleophobic modification of various hydrophobic membranes for oil/water separation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13959-13967	13	72
22	Sulfur-Mediated Self-Templating Synthesis of Tapered C-PAN/g-C ₃ N ₄ Composite Nanotubes toward Efficient Photocatalytic H ₂ Evolution. <i>ACS Energy Letters</i> , 2016 , 1, 969-975	20.1	62
21	Versatile coating with multifunctional performance for solar steam generation. <i>Nano Energy</i> , 2020 , 74, 104886	17.1	56
20	A bio-inspired CO ₂ -philic network membrane for enhanced sustainable gas separation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13758-13766	13	55
19	Designing preferable functional materials based on the secondary reactions of the hierarchical tannic acid (TA)-aminopropyltriethoxysilane (APTES) coating. <i>Chemical Engineering Journal</i> , 2019 , 360, 299-312	14.7	53
18	Transformable masks for colloidal nanosynthesis. <i>Nature Communications</i> , 2018 , 9, 563	17.4	47

17	Codepositing Mussel-Inspired Nanohybrids onto One-Dimensional Fibers under Green Conditions for Significantly Enhanced Surface/Interfacial Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 4412-4420	8.3	45
16	Dual functional membrane with multiple hierarchical structures (MHS) for simultaneous and high-efficiency removal of dye and nano-sized oil droplets in water under high flux. <i>Journal of Membrane Science</i> , 2018 , 564, 317-327	9.6	44
15	Confinement Capillarity of Thin Coating for Boosting Solar-Driven Water Evaporation. <i>Advanced Functional Materials</i> , 2021 , 31, 2011114	15.6	42
14	A novel gel coating strategy to synthesize TiO ₂ nanorod combining reduced graphene oxide composites. <i>Materials Letters</i> , 2013 , 107, 307-310	3.3	38
13	Investigating and significantly improving the stability of tannic acid (TA)-aminopropyltriethoxysilane (APTES) coating for enhanced oil-water separation. <i>Journal of Membrane Science</i> , 2020 , 593, 117383	9.6	38
12	A facile and mild strategy to fabricate an underwater superoleophobic and underoil superhydrophobic mesh with outstanding anti-viscous oil-fouling properties for switchable high viscosity oil/water separation. <i>Green Chemistry</i> , 2019 , 21, 5080-5089	10	29
11	The stability of a graphene oxide (GO) nanofiltration (NF) membrane in an aqueous environment: progress and challenges. <i>Materials Advances</i> , 2020 , 1, 554-568	3.3	20
10	One-step, low-cost, mussel-inspired green method to prepare superhydrophobic nanostructured surfaces having durability, efficiency, and wide applicability. <i>Journal of Colloid and Interface Science</i> , 2020 , 580, 211-222	9.3	20
9	A modified TA-APTES coating: Endowing porous membranes with uniform, durable superhydrophilicity and outstanding anti-crude oil-adhesion property via one-step process. <i>Journal of Membrane Science</i> , 2021 , 618, 118703	9.6	15
8	Fabrication of superhydrophobic fabrics with outstanding self-healing performance in sunlight. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1341-1348	7.8	11
7	Supramolecule self-assembly synthesis of condensed C-TA/g-C ₃ N ₄ composites for promoting charge transfer and photocatalytic H ₂ evolution. <i>Applied Surface Science</i> , 2020 , 504, 144354	6.7	11
6	Solar-driven interfacial evaporation toward clean water production: burgeoning materials, concepts and technologies. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 27121-27139	13	8
5	Porifera-inspired cost-effective and scalable porous hydrogel sponge for durable and highly efficient solar-driven desalination. <i>Chemical Engineering Journal</i> , 2022 , 427, 130905	14.7	8
4	In Situ Photoreduction Synthesis of Fe(0)/Melamine Core-Shell Submicrocubes for Efficient Photocatalytic H ₂ Evolution. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2483-2489	6.1	2
3	Directional modulation of triazine and heptazine based carbon nitride for efficient photocatalytic H ₂ evolution. <i>Applied Surface Science</i> , 2021 , 562, 150103	6.7	2
2	Mussel-Inspired Nanocomposites: Synthesis and Promising Applications in Environmental Fields 2018 , 603-650		1
1	In situ formation of tannic (TA)-aminopropyltriethoxysilane (APTES) nanospheres on inner and outer surface of polypropylene membrane toward enhanced dye removal capacity. <i>Chemical Engineering Journal</i> , 2021 , 433, 133843	14.7	1