

# Weihua Qing

## List of Publications by Citations

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31  
papers

1,131  
citations

20  
h-index

33  
g-index

33  
ext. papers

1,554  
ext. citations

9.5  
avg, IF

4.88  
L-index

#	Paper	IF	Citations
31	Robust superhydrophobic-superoleophilic polytetrafluoroethylene nanofibrous membrane for oil/water separation. <i>Journal of Membrane Science</i> , <b>2017</b> , 540, 354-361	9.6	145
30	Membrane-based technologies for lithium recovery from water lithium resources: A review. <i>Journal of Membrane Science</i> , <b>2019</b> , 591, 117317	9.6	139
29	Solar-assisted fast cleanup of heavy oil spills using a photothermal sponge. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9192-9199	13	86
28	Influences of Air, Oxygen, Nitrogen, and Carbon Dioxide Nanobubbles on Seed Germination and Plant Growth. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 5117-5124	5.7	74
27	Polymeric catalytically active membranes for reaction-separation coupling: A review. <i>Journal of Membrane Science</i> , <b>2019</b> , 583, 118-138	9.6	54
26	Enhancement of esterification conversion using novel composite catalytically active pervaporation membranes. <i>Journal of Membrane Science</i> , <b>2014</b> , 451, 285-292	9.6	52
25	Solvent-thermal induced roughening: A novel and versatile method to prepare superhydrophobic membranes. <i>Journal of Membrane Science</i> , <b>2018</b> , 564, 465-472	9.6	50
24	Preparation of nanocavity-contained thin film composite nanofiltration membranes with enhanced permeability and divalent to monovalent ion selectivity. <i>Desalination</i> , <b>2018</b> , 445, 115-122	10.3	50
23	In situ silica growth for superhydrophilic-underwater superoleophobic Silica/PVA nanofibrous membrane for gravity-driven oil-in-water emulsion separation. <i>Journal of Membrane Science</i> , <b>2020</b> , 612, 118476	9.6	45
22	One-step tailoring surface roughness and surface chemistry to prepare superhydrophobic polyvinylidene fluoride (PVDF) membranes for enhanced membrane distillation performances. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 553, 99-107	9.3	43
21	Omniphobic PVDF nanofibrous membrane for superior anti-wetting performance in direct contact membrane distillation. <i>Journal of Membrane Science</i> , <b>2020</b> , 608, 118226	9.6	37
20	Sustaining fouling resistant membranes: Membrane fabrication, characterization and mechanism understanding of demulsification and fouling-resistance. <i>Journal of Membrane Science</i> , <b>2019</b> , 581, 105-106	9.6	35
19	Fast polydopamine coating on reverse osmosis membrane: Process investigation and membrane performance study. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 535, 239-244	9.3	35
18	Omniphobic Nanofibrous Membrane with Pine-Needle-Like Hierarchical Nanostructures: Toward Enhanced Performance for Membrane Distillation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 47983-47985	8.5	32
17	Factors and mechanisms that influence the reactivity of trivalent copper: A novel oxidant for selective degradation of antibiotics. <i>Water Research</i> , <b>2019</b> , 149, 1-8	12.5	31
16	Lipase immobilized catalytically active membrane for synthesis of lauryl stearate in a pervaporation membrane reactor. <i>Bioresource Technology</i> , <b>2014</b> , 172, 16-21	11	30
15	Conversion enhancement for acetalization using a catalytically active membrane in a pervaporation membrane reactor. <i>Chemical Engineering Journal</i> , <b>2017</b> , 313, 1396-1405	14.7	26

## LIST OF PUBLICATIONS

14	Atomic force microscopy - Scanning electrochemical microscopy (AFM-SECM) for nanoscale topographical and electrochemical characterization: Principles, applications and perspectives. <i>Electrochimica Acta</i> , <b>2020</b> , 332, 135472	6.7	24
13	Polydopamine enabled palladium loaded nanofibrous membrane and its catalytic performance for trichloroethene dechlorination. <i>Applied Catalysis A: General</i> , <b>2018</b> , 559, 122-126	5.1	21
12	Functional catalytic membrane development: A review of catalyst coating techniques. <i>Advances in Colloid and Interface Science</i> , <b>2020</b> , 282, 102207	14.3	20
11	A genuine in-situ water removal at a molecular lever by an enhanced esterification-pervaporation coupling in a catalytically active membrane reactor. <i>Chemical Engineering Journal</i> , <b>2017</b> , 323, 434-443	14.7	15
10	Enhancing bioethanol productivity by a yeast-immobilized catalytically active membrane in a fermentation-pervaporation coupling process. <i>Journal of Membrane Science</i> , <b>2020</b> , 595, 117485	9.6	13
9	Control of organic and surfactant fouling using dynamic membranes in the separation of oil-in-water emulsions. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 560, 787-794	9.3	12
8	Seawater pretreatment with an NF-like forward osmotic membrane: Membrane preparation, characterization and performance comparison with RO-like membranes. <i>Desalination</i> , <b>2019</b> , 470, 114115 <sup>10.3</sup>	10.3	11
7	A novel catalytically active membrane with highly porous catalytic layer for the conversion enhancement of esterification: Focusing on the reduction of mass transfer resistance of the catalytic layer. <i>Journal of Membrane Science</i> , <b>2017</b> , 539, 359-367	9.6	11
6	Pervaporation Membrane Reactor for Producing Hydroxylamine Chloride via an Oxime Hydrolysis Reaction. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 100-107	3.9	9
5	Engineering Interface with a One-Dimensional RuO/TiO Heteronanostructure in an Electrocatalytic Membrane Electrode: Toward Highly Efficient Micropollutant Decomposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 21596-21604	9.5	9
4	Low-surface-energy monomer for ultrathin silicone membrane fabrication: Towards enhanced ethanol/water pervaporation performance. <i>Separation and Purification Technology</i> , <b>2019</b> , 222, 361-368	8.3	8
3	Modeling study of a pervaporation membrane reactor for improving oxime hydrolysis reaction. <i>Journal of Membrane Science</i> , <b>2016</b> , 497, 410-420	9.6	8
2	Experimental and computational assessment of 1,4-Dioxane degradation in a photo-Fenton reactive ceramic membrane filtration process. <i>Frontiers of Environmental Science and Engineering</i> , <b>2021</b> , 15, 1	5.8	4
1	Conductive Fe <sub>3</sub> O <sub>4</sub> /PANI@PTFE membrane for high thermal efficiency in interfacial induction heating membrane distillation. <i>Nano Energy</i> , <b>2021</b> , 89, 106339	17.1	2