Weihua Qing

List of Publications by Year in Descending Order

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	Experimental and computational assessment of 1,4-Dioxane degradation in a photo-Fenton reactive ceramic membrane filtration process. *Frontiers of Environmental Science and Engineering*, **2021**, 15, 1	5.8	4
30	Conductive Fe3O4/PANI@PTFE membrane for high thermal efficiency in interfacial induction heating membrane distillation. *Nano Energy*, **2021**, 89, 106339	17.1	2
29	Omniphobic PVDF nanofibrous membrane for superior anti-wetting performance in direct contact membrane distillation. *Journal of Membrane Science*, **2020**, 608, 118226	9.6	37
28	In situ silica growth for superhydrophilic-underwater superoleophobic Silica/PVA nanofibrous membrane for gravity-driven oil-in-water emulsion separation. *Journal of Membrane Science*, **2020**, 612, 118476	9.6	45
27	Functional catalytic membrane development: A review of catalyst coating techniques. *Advances in Colloid and Interface Science*, **2020**, 282, 102207	14.3	20
26	Control of organic and surfactant fouling using dynamic membranes in the separation of oil-in-water emulsions. *Journal of Colloid and Interface Science*, **2020**, 560, 787-794	9.3	12
25	Atomic force microscopy - Scanning electrochemical microscopy (AFM-SECM) for nanoscale topographical and electrochemical characterization: Principles, applications and perspectives. *Electrochimica Acta*, **2020**, 332, 135472	6.7	24
24	Enhancing bioethanol productivity by a yeast-immobilized catalytically active membrane in a fermentation-pervaporation coupling process. *Journal of Membrane Science*, **2020**, 595, 117485	9.6	13
23	Engineering Interface with a One-Dimensional RuO/TiO Heteronanostructure in an Electrocatalytic Membrane Electrode: Toward Highly Efficient Micropollutant Decomposition. *ACS Applied Materials & Interfaces*, **2020**, 12, 21596-21604	9.5	9
22	Seawater pretreatment with an NF-like forward osmotic membrane: Membrane preparation, characterization and performance comparison with RO-like membranes. *Desalination*, **2019**, 470, 114115	10.3	11
21	One-step tailoring surface roughness and surface chemistry to prepare superhydrophobic polyvinylidene fluoride (PVDF) membranes for enhanced membrane distillation performances. *Journal of Colloid and Interface Science*, **2019**, 553, 99-107	9.3	43
20	Polymeric catalytically active membranes for reaction-separation coupling: A review. *Journal of Membrane Science*, **2019**, 583, 118-138	9.6	54
19	Low-surface-energy monomer for ultrathin silicone membrane fabrication: Towards enhanced ethanol/water pervaporation performance. *Separation and Purification Technology*, **2019**, 222, 361-368	8.3	8
18	Sustaining fouling resistant membranes: Membrane fabrication, characterization and mechanism understanding of demulsification and fouling-resistance. *Journal of Membrane Science*, **2019**, 581, 105-113	9.6	35
17	Membrane-based technologies for lithium recovery from water lithium resources: A review. *Journal of Membrane Science*, **2019**, 591, 117317	9.6	139
16	Omniphobic Nanofibrous Membrane with Pine-Needle-Like Hierarchical Nanostructures: Toward Enhanced Performance for Membrane Distillation. *ACS Applied Materials & Interfaces*, **2019**, 11, 47963-47971	9.5	32
15	Factors and mechanisms that influence the reactivity of trivalent copper: A novel oxidant for selective degradation of antibiotics. *Water Research*, **2019**, 149, 1-8	12.5	31

14	Fast polydopamine coating on reverse osmosis membrane: Process investigation and membrane performance study. *Journal of Colloid and Interface Science*, **2019**, 535, 239-244	9.3	35
13	Polydopamine enabled palladium loaded nanofibrous membrane and its catalytic performance for trichloroethene dechlorination. *Applied Catalysis A: General*, **2018**, 559, 122-126	5.1	21
12	Solar-assisted fast cleanup of heavy oil spills using a photothermal sponge. *Journal of Materials Chemistry A*, **2018**, 6, 9192-9199	13	86
11	Influences of Air, Oxygen, Nitrogen, and Carbon Dioxide Nanobubbles on Seed Germination and Plant Growth. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 5117-5124	5.7	74
10	Solvent-thermal induced roughening: A novel and versatile method to prepare superhydrophobic membranes. *Journal of Membrane Science*, **2018**, 564, 465-472	9.6	50
9	Preparation of nanocavity-contained thin film composite nanofiltration membranes with enhanced permeability and divalent to monovalent ion selectivity. *Desalination*, **2018**, 445, 115-122	10.3	50
8	A genuine in-situ water removal at a molecular lever by an enhanced esterification-pervaporation coupling in a catalytically active membrane reactor. *Chemical Engineering Journal*, **2017**, 323, 434-443	14.7	15
7	Robust superhydrophobic-superoleophilic polytetrafluoroethylene nanofibrous membrane for oil/water separation. *Journal of Membrane Science*, **2017**, 540, 354-361	9.6	145
6	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. *Journal of Membrane Science*, **2017**, 539, 359-367	9.6	11
5	Conversion enhancement for acetalization using a catalytically active membrane in a pervaporation membrane reactor. *Chemical Engineering Journal*, **2017**, 313, 1396-1405	14.7	26
4	Modeling study of a pervaporation membrane reactor for improving oxime hydrolysis reaction. *Journal of Membrane Science*, **2016**, 497, 410-420	9.6	8
3	Pervaporation Membrane Reactor for Producing Hydroxylamine Chloride via an Oxime Hydrolysis Reaction. *Industrial & Engineering Chemistry Research*, **2015**, 54, 100-107	3.9	9
2	Lipase immobilized catalytically active membrane for synthesis of lauryl stearate in a pervaporation membrane reactor. *Bioresource Technology*, **2014**, 172, 16-21	11	30
1	Enhancement of esterification conversion using novel composite catalytically active pervaporation membranes. *Journal of Membrane Science*, **2014**, 451, 285-292	9.6	52