

Wei Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

973
citations

516561

16
h-index

642610

23
g-index

24
all docs

24
docs citations

24
times ranked

1316
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective removal of divalent cations by polyelectrolyte multilayer nanofiltration membrane: Role of polyelectrolyte charge, ion size, and ionic strength. <i>Journal of Membrane Science</i> , 2018, 559, 98-106.	4.1	227
2	Functionalization of ultrafiltration membrane with polyampholyte hydrogel and graphene oxide to achieve dual antifouling and antibacterial properties. <i>Journal of Membrane Science</i> , 2018, 565, 293-302.	4.1	90
3	Hydrophilic Fe ₂ O ₃ dynamic membrane mitigating fouling of support ceramic membrane in ultrafiltration of oil/water emulsion. <i>Separation and Purification Technology</i> , 2016, 165, 1-9.	3.9	82
4	Concentration and Recovery of Dyes from Textile Wastewater Using a Self-Standing, Support-Free Forward Osmosis Membrane. <i>Environmental Science & Technology</i> , 2019, 53, 3078-3086.	4.6	76
5	Biocatalytic and salt selective multilayer polyelectrolyte nanofiltration membrane. <i>Journal of Membrane Science</i> , 2018, 549, 357-365.	4.1	60
6	Elucidating the mechanisms underlying the difference between chloride and nitrate rejection in nanofiltration. <i>Journal of Membrane Science</i> , 2018, 548, 694-701.	4.1	58
7	Engineering Carbon Nanotube Forest Superstructure for Robust Thermal Desalination Membranes. <i>Advanced Functional Materials</i> , 2019, 29, 1903125.	7.8	48
8	Graphene Oxide-Functionalized Membranes: The Importance of Nanosheet Surface Exposure for Biofouling Resistance. <i>Environmental Science & Technology</i> , 2020, 54, 517-526.	4.6	47
9	Tuning the permselectivity of polymeric desalination membranes via control of polymer crystallite size. <i>Nature Communications</i> , 2019, 10, 2347.	5.8	43
10	Constructing zwitterionic polymer brush layer to enhance gravity-driven membrane performance by governing biofilm formation. <i>Water Research</i> , 2020, 168, 115181.	5.3	43
11	Photografting Graphene Oxide to Inert Membrane Materials to Impart Antibacterial Activity. <i>Environmental Science and Technology Letters</i> , 2019, 6, 141-147.	3.9	33
12	Membrane Scaling and Wetting in Membrane Distillation: Mitigation Roles Played by Humic Substances. <i>Environmental Science & Technology</i> , 2022, 56, 3258-3266.	4.6	32
13	Silica Removal Using Magnetic Iron-Aluminum Hybrid Nanomaterials: Measurements, Adsorption Mechanisms, and Implications for Silica Scaling in Reverse Osmosis. <i>Environmental Science & Technology</i> , 2019, 53, 13302-13311.	4.6	22
14	Micro fine particles deposition on gravity-driven ultrafiltration membrane to modify the surface properties and biofilm compositions: Water quality improvement and biofouling mitigation. <i>Chemical Engineering Journal</i> , 2020, 393, 123270.	6.6	21
15	Sub-1 μ m Free-Standing Symmetric Membrane for Osmotic Separations. <i>Environmental Science and Technology Letters</i> , 2019, 6, 492-498.	3.9	20
16	Influence of composition and concentration of saline water on cation exchange behavior in forward osmosis desalination. <i>Water Research</i> , 2018, 137, 9-17.	5.3	19
17	Separate Reclamation of Oil and Surfactant from Oil-in-Water Emulsion with a CO ₂ -Responsive Material. <i>Environmental Science & Technology</i> , 2022, 56, 9651-9660.	4.6	14
18	Utilization of Bidirectional Cation Transport in a Thin Film Composite Membrane: Selective Removal and Reclamation of Ammonium from Synthetic Digested Sludge Centrate via an Osmosis-Distillation Hybrid Membrane Process. <i>Environmental Science & Technology</i> , 2020, 54, 10313-10322.	4.6	13

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19	Tailoring the distribution of microbial communities and gene expressions to achieve integrating nitrogen transformation in a gravity-driven submerged membrane bioreactor. <i>Water Research</i> , 2020, 187, 116382.	5.3	10
20	Modification Mechanism of Polyamide Reverse Osmosis Membrane by Persulfate: Roles of Hydroxyl and Sulfate Radicals. <i>Environmental Science & Technology</i> , 2022, 56, 8864-8874.	4.6	6
21	Condensed solute droplets templated honeycomb pattern on polymer films. <i>Journal of Colloid and Interface Science</i> , 2014, 436, 16-18.	5.0	4
22	Diffuse-In/Condense-Out Behavior of Glycerol Induces Formation of Composite Membranes with Uniform Pores. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 36-41.	1.7	2
23	Condensed Low-Volatile Alcohol Droplet-Directed Uniform Pore Formation on Polystyrene Films. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1638-1645.	1.1	0