

Wei Cheng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

21
papers

572
citations

13
h-index

23
g-index

24
ext. papers

787
ext. citations

10.4
avg, IF

4.1
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 21 | Membrane Scaling and Wetting in Membrane Distillation: Mitigation Roles Played by Humic Substances.. <i>Environmental Science & Technology</i> , 2022 , | 10.3 | 2 |
| 20 | 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 | 12.5 | 4 |
| 19 | 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 | 10.3 | 5 |
| 18 | Graphene Oxide-Functionalized Membranes: The Importance of Nanosheet Surface Exposure for Biofouling Resistance. <i>Environmental Science & Technology</i> , 2020 , 54, 517-526 | 10.3 | 24 |
| 17 | Constructing zwitterionic polymer brush layer to enhance gravity-driven membrane performance by governing biofilm formation. <i>Water Research</i> , 2020 , 168, 115181 | 12.5 | 25 |
| 16 | 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 | 14.7 | 15 |
| 15 | Photografting Graphene Oxide to Inert Membrane Materials to Impart Antibacterial Activity. <i>Environmental Science and Technology Letters</i> , 2019 , 6, 141-147 | 11 | 21 |
| 14 | Engineering Carbon Nanotube Forest Superstructure for Robust Thermal Desalination Membranes. <i>Advanced Functional Materials</i> , 2019 , 29, 1903125 | 15.6 | 31 |
| 13 | Tuning the permselectivity of polymeric desalination membranes via control of polymer crystallite size. <i>Nature Communications</i> , 2019 , 10, 2347 | 17.4 | 29 |
| 12 | 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 | 10.3 | 45 |
| 11 | Sub-1 μ m Free-Standing Symmetric Membrane for Osmotic Separations. <i>Environmental Science and Technology Letters</i> , 2019 , 6, 492-498 | 11 | 12 |
| 10 | 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 | 10.3 | 11 |
| 9 | Influence of composition and concentration of saline water on cation exchange behavior in forward osmosis desalination. <i>Water Research</i> , 2018 , 137, 9-17 | 12.5 | 14 |
| 8 | 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 | 9.6 | 140 |
| 7 | 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 | 9.6 | 57 |
| 6 | Biocatalytic and salt selective multilayer polyelectrolyte nanofiltration membrane. <i>Journal of Membrane Science</i> , 2018 , 549, 357-365 | 9.6 | 42 |
| 5 | Elucidating the mechanisms underlying the difference between chloride and nitrate rejection in nanofiltration. <i>Journal of Membrane Science</i> , 2018 , 548, 694-701 | 9.6 | 31 |

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| 4 | 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 | 3.9 | 2 |
| 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 | 8.3 | 58 |
| 2 | Condensed Low-Volatile Alcohol Droplet-Directed Uniform Pore Formation on Polystyrene Films. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 1638-1645 | 2.6 | |
| 1 | Condensed solute droplets templated honeycomb pattern on polymer films. <i>Journal of Colloid and Interface Science</i> , 2014 , 436, 16-8 | 9.3 | 3 |