

Chanhee Boo

List of Publications by Citations

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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.

36
papers

3,358
citations

24
h-index

40
g-index

40
ext. papers

4,093
ext. citations

11.2
avg, IF

5.94
L-index

#	Paper	IF	Citations
36	Comparison of fouling behavior in forward osmosis (FO) and reverse osmosis (RO). <i>Journal of Membrane Science</i> , 2010 , 365, 34-39	9.6	568
35	Membrane distillation at the water-energy nexus: limits, opportunities, and challenges. <i>Energy and Environmental Science</i> , 2018 , 11, 1177-1196	35.4	458
34	Omniphobic Polyvinylidene Fluoride (PVDF) Membrane for Desalination of Shale Gas Produced Water by Membrane Distillation. <i>Environmental Science & Technology</i> , 2016 , 50, 12275-12282	10.3	232
33	Omniphobic Membrane for Robust Membrane Distillation. <i>Environmental Science and Technology Letters</i> , 2014 , 1, 443-447	11	224
32	Fouling control in a forward osmosis process integrating seawater desalination and wastewater reclamation. <i>Journal of Membrane Science</i> , 2013 , 444, 148-156	9.6	188
31	Development of Omniphobic Desalination Membranes Using a Charged Electrospun Nanofiber Scaffold. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11154-61	9.5	169
30	Engineering Surface Energy and Nanostructure of Microporous Films for Expanded Membrane Distillation Applications. <i>Environmental Science & Technology</i> , 2016 , 50, 8112-9	10.3	151
29	High-Performance Thin-Film Composite Membrane with an Ultrathin Spray-Coated Carbon Nanotube Interlayer. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 243-248	11	122
28	High Performance Nanofiltration Membrane for Effective Removal of Perfluoroalkyl Substances at High Water Recovery. <i>Environmental Science & Technology</i> , 2018 , 52, 7279-7288	10.3	112
27	Photocatalytic Reactive Ultrafiltration Membrane for Removal of Antibiotic Resistant Bacteria and Antibiotic Resistance Genes from Wastewater Effluent. <i>Environmental Science & Technology</i> , 2018 , 52, 8666-8673	10.3	101
26	Engineering flat sheet microporous PVDF films for membrane distillation. <i>Journal of Membrane Science</i> , 2015 , 492, 355-363	9.6	98
25	Performance evaluation of trimethylamine-carbon dioxide thermolytic draw solution for engineered osmosis. <i>Journal of Membrane Science</i> , 2015 , 473, 302-309	9.6	86
24	Engineered Slippery Surface to Mitigate Gypsum Scaling in Membrane Distillation for Treatment of Hypersaline Industrial Wastewaters. <i>Environmental Science & Technology</i> , 2018 , 52, 14362-14370	10.3	86
23	Bidirectional diffusion of ammonium and sodium cations in forward osmosis: role of membrane active layer surface chemistry and charge. <i>Environmental Science & Technology</i> , 2014 , 48, 14369-76	10.3	85
22	Relating Silica Scaling in Reverse Osmosis to Membrane Surface Properties. <i>Environmental Science & Technology</i> , 2017 , 51, 4396-4406	10.3	84
21	Self-cleaning anti-fouling hybrid ultrafiltration membranes via side chain grafting of poly(aryl ether sulfone) and titanium dioxide. <i>Journal of Membrane Science</i> , 2017 , 529, 1-10	9.6	81
20	Post-fabrication modification of electrospun nanofiber mats with polymer coating for membrane distillation applications. <i>Journal of Membrane Science</i> , 2017 , 530, 158-165	9.6	70

19	Membrane-based osmotic heat engine with organic solvent for enhanced power generation from low-grade heat. <i>Environmental Science & Technology</i> , 2015 , 49, 5820-7	10.3	67
18	Relating Organic Fouling in Membrane Distillation to Intermolecular Adhesion Forces and Interfacial Surface Energies. <i>Environmental Science & Technology</i> , 2018 , 52, 14198-14207	10.3	56
17	Thermal desalination membranes: Carbon nanotubes keep up the heat. <i>Nature Nanotechnology</i> , 2017 , 12, 501-503	28.7	48
16	Modeling of colloidal fouling in forward osmosis membrane: Effects of reverse draw solution permeation. <i>Desalination</i> , 2013 , 314, 115-123	10.3	38
15	Engineering Carbon Nanotube Forest Superstructure for Robust Thermal Desalination Membranes. <i>Advanced Functional Materials</i> , 2019 , 29, 1903125	15.6	31
14	Zwitterionic coating on thin-film composite membranes to delay gypsum scaling in reverse osmosis. <i>Journal of Membrane Science</i> , 2021 , 618, 118568	9.6	27
13	Membrane-less and Non-Evaporative Desalination of Hypersaline Brines by Temperature Swing Solvent Extraction. <i>Environmental Science and Technology Letters</i> , 2019 , 6, 359-364	11	25
12	Surface functionalization of reverse osmosis membranes with sulfonic groups for simultaneous mitigation of silica scaling and organic fouling. <i>Water Research</i> , 2020 , 185, 116203	12.5	22
11	Improving the feasibility and applicability of flow-electrode capacitive deionization (FCDI): Review of process optimization and energy efficiency. <i>Desalination</i> , 2021 , 502, 114930	10.3	22
10	Zero Liquid Discharge of Ultrahigh-Salinity Brines with Temperature Swing Solvent Extraction. <i>Environmental Science & Technology</i> , 2020 , 54, 9124-9131	10.3	20
9	Transport and structural properties of osmotic membranes in high-salinity desalination using cascading osmotically mediated reverse osmosis. <i>Desalination</i> , 2020 , 479, 114335	10.3	17
8	Novel Isothermal Membrane Distillation with Acidic Collector for Selective and Energy-Efficient Recovery of Ammonia from Urine. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7324-7334	8.3	16
7	Removal of Emerging Wastewater Organic Contaminants by Polyelectrolyte Multilayer Nanofiltration Membranes with Tailored Selectivity. <i>ACS ES&T Engineering</i> , 2021 , 1, 404-414		13
6	Low-temperature heat utilization with vapor pressure-driven osmosis: Impact of membrane properties on mass and heat transfer. <i>Journal of Membrane Science</i> , 2019 , 588, 117181	9.6	9
5	Investigating the potential of ammonium retention by graphene oxide ceramic nanofiltration membranes for the treatment of semiconductor wastewater. <i>Chemosphere</i> , 2022 , 286, 131745	8.4	8
4	Influence of Solute Molecular Diameter on Permeability-Selectivity Tradeoff of Thin-Film Composite Polyamide Membranes in Aqueous Separations. <i>Water Research</i> , 2021 , 201, 117311	12.5	6
3	Simultaneous retention of organic and inorganic contaminants by a ceramic nanofiltration membrane for the treatment of semiconductor wastewater. <i>Chemical Engineering Research and Design</i> , 2022 , 159, 525-533	5.5	4
2	Water deoxygenation using a hollow fiber membrane contactor to prevent pipe corrosion for sustainable management of district heating systems: A pilot-scale study. <i>Journal of Cleaner Production</i> , 2020 , 277, 124049	10.3	4

- 1 Thermomorphic Hydrophilicity Base-Induced Precipitation for Effective Descaling of Hypersaline Brines. *ACS ES&T Engineering*, **2021**, 1, 1351-1359

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