

Yun Chul Woo

List of Publications by Year in descending order

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52
papers

3,800
citations

212478

28
h-index

198040

52
g-index

52
all docs

52
docs citations

52
times ranked

3605
citing authors

#	ARTICLE	IF	CITATIONS
1	Fouling and its control in membrane distillation—A review. <i>Journal of Membrane Science</i> , 2015, 475, 215-244.	4.1	776
2	Superhydrophobic nanofiber membrane containing carbon nanotubes for high-performance direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016, 502, 158-170.	4.1	320
3	Anti-fouling graphene-based membranes for effective water desalination. <i>Nature Communications</i> , 2018, 9, 683.	5.8	197
4	CF ₄ plasma-modified omniphobic electrospun nanofiber membrane for produced water brine treatment by membrane distillation. <i>Journal of Membrane Science</i> , 2017, 529, 234-242.	4.1	170
5	Water desalination using graphene-enhanced electrospun nanofiber membrane via air gap membrane distillation. <i>Journal of Membrane Science</i> , 2016, 520, 99-110.	4.1	167
6	Electrospun nanofiber membranes incorporating fluorosilane-coated TiO ₂ nanocomposite for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016, 520, 145-154.	4.1	161
7	Reverse osmosis membrane fabrication and modification technologies and future trends: A review. <i>Advances in Colloid and Interface Science</i> , 2020, 276, 102100.	7.0	137
8	A novel dual-layer bicomponent electrospun nanofibrous membrane for desalination by direct contact membrane distillation. <i>Chemical Engineering Journal</i> , 2014, 256, 155-159.	6.6	134
9	Electrospun dual-layer nonwoven membrane for desalination by air gap membrane distillation. <i>Desalination</i> , 2017, 403, 187-198.	4.0	133
10	Advanced multi-nozzle electrospun functionalized titanium dioxide/polyvinylidene fluoride-co-hexafluoropropylene (TiO ₂ /PVDF-HFP) composite membranes for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2017, 524, 712-720.	4.1	123
11	Engineering the Re-Entrant Hierarchy and Surface Energy of PDMS-PVDF Membrane for Membrane Distillation Using a Facile and Benign Microsphere Coating. <i>Environmental Science & Technology</i> , 2017, 51, 10117-10126.	4.6	114
12	Graphene/PVDF flat-sheet membrane for the treatment of RO brine from coal seam gas produced water by air gap membrane distillation. <i>Journal of Membrane Science</i> , 2016, 513, 74-84.	4.1	107
13	Effect of sulphonated polyethersulfone substrate for thin film composite forward osmosis membrane. <i>Desalination</i> , 2016, 389, 129-136.	4.0	97
14	Effect of heat-press conditions on electrospun membranes for desalination by direct contact membrane distillation. <i>Desalination</i> , 2016, 378, 80-91.	4.0	97
15	Hierarchical Composite Membranes with Robust Omniphobic Surface Using Layer-By-Layer Assembly Technique. <i>Environmental Science & Technology</i> , 2018, 52, 2186-2196.	4.6	90
16	Removal of fluoride in membrane-based water and wastewater treatment technologies: Performance review. <i>Journal of Environmental Management</i> , 2019, 251, 109524.	3.8	76
17	A novel electrospun, hydrophobic, and elastomeric styrene-butadiene-styrene membrane for membrane distillation applications. <i>Journal of Membrane Science</i> , 2018, 549, 420-427.	4.1	74
18	Membrane distillation for industrial wastewater treatment: Studying the effects of membrane parameters on the wetting performance. <i>Chemosphere</i> , 2018, 206, 793-801.	4.2	58

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19	Effects of volatile organic compounds on water recovery from produced water via vacuum membrane distillation. <i>Desalination</i> , 2018, 440, 146-155.	4.0	55
20	Evaluation of fertilizer-drawn forward osmosis for coal seam gas reverse osmosis brine treatment and sustainable agricultural reuse. <i>Journal of Membrane Science</i> , 2017, 537, 22-31.	4.1	54
21	Assessing the removal of organic micro-pollutants from anaerobic membrane bioreactor effluent by fertilizer-drawn forward osmosis. <i>Journal of Membrane Science</i> , 2017, 533, 84-95.	4.1	53
22	A comprehensive review of MXene-based water-treatment membranes and technologies: Recent progress and perspectives. <i>Desalination</i> , 2022, 522, 115448.	4.0	53
23	Characteristics of membrane fouling by consecutive chemical cleaning in pressurized ultrafiltration as pre-treatment of seawater desalination. <i>Desalination</i> , 2015, 369, 51-61.	4.0	49
24	Nanoscale zero-valent iron (nZVI) immobilization onto graphene oxide (GO)-incorporated electrospun polyvinylidene fluoride (PVDF) nanofiber membrane for groundwater remediation via gravity-driven membrane filtration. <i>Science of the Total Environment</i> , 2019, 688, 787-796.	3.9	42
25	Effect of powdered activated carbon on integrated submerged membrane bioreactor's nanofiltration process for wastewater reclamation. <i>Bioresource Technology</i> , 2016, 210, 18-25.	4.8	40
26	Volatile fatty acids and biogas recovery using thermophilic anaerobic membrane distillation bioreactor for wastewater reclamation. <i>Journal of Environmental Management</i> , 2019, 231, 833-842.	3.8	39
27	Co-axially electrospun superhydrophobic nanofiber membranes with 3D-hierarchically structured surface for desalination by long-term membrane distillation. <i>Journal of Membrane Science</i> , 2021, 623, 119028.	4.1	38
28	Membrane-based technologies for zero liquid discharge and fluoride removal from industrial wastewater. <i>Chemosphere</i> , 2019, 236, 124288.	4.2	36
29	Improving Nanofiber Membrane Characteristics and Membrane Distillation Performance of Heat-Pressed Membranes via Annealing Post-Treatment. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 78.	1.3	28
30	Recyclable nanoscale zerovalent iron (nZVI)-immobilized electrospun nanofiber composites with improved mechanical strength for groundwater remediation. <i>Composites Part B: Engineering</i> , 2019, 171, 339-346.	5.9	24
31	A pilot study of spiral-wound air gap membrane distillation process and its energy efficiency analysis. <i>Chemosphere</i> , 2020, 239, 124696.	4.2	21
32	Improving membrane distillation performance: Morphology optimization of hollow fiber membranes with selected non-solvent in dope solution. <i>Chemosphere</i> , 2019, 230, 117-126.	4.2	20
33	Membrane Distillation for Strategic Water Treatment Applications: Opportunities, Challenges, and Current Status. <i>Current Pollution Reports</i> , 2020, 6, 173-187.	3.1	20
34	Energy recovery through reverse electrodialysis: Harnessing the salinity gradient from the flushing of human urine. <i>Water Research</i> , 2020, 186, 116320.	5.3	17
35	Analysis of mass transfer behavior in membrane distillation: Mathematical modeling under various conditions. <i>Chemosphere</i> , 2019, 236, 124289.	4.2	16
36	Polyvinylidene fluoride phase design by two-dimensional boron nitride enables enhanced performance and stability for seawater desalination. <i>Journal of Membrane Science</i> , 2020, 598, 117669.	4.1	16

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37	Effect of chemical cleaning conditions on the flux recovery of fouled membrane. <i>Desalination and Water Treatment</i> , 2013, 51, 5268-5274.	1.0	15
38	Enhancement of nanoscale zero-valent iron immobilization onto electrospun polymeric nanofiber mats for groundwater remediation. <i>Chemical Engineering Research and Design</i> , 2017, 112, 200-208.	2.7	14
39	Status and future trends of hollow fiber biogas separation membrane fabrication and modification techniques. <i>Chemosphere</i> , 2022, 303, 134959.	4.2	14
40	Effect of driving pressure and recovery rate on the performance of nanofiltration and reverse osmosis membranes for the treatment of the effluent from MBR. <i>Desalination and Water Treatment</i> , 2015, 54, 3589-3595.	1.0	12
41	Removal of nitrogen from municipal wastewater by denitrification using a sulfur-based carrier: A pilot-scale study. <i>Chemosphere</i> , 2022, 296, 133969.	4.2	12
42	Fouling characteristics of microfiltration membranes by organic and inorganic matter and evaluation of flux recovery by chemical cleaning. <i>Desalination and Water Treatment</i> , 2014, 52, 6920-6929.	1.0	11
43	Enhancing performances of polyamide thin film composite membranes via co-solvent assisted interfacial polymerization. <i>Desalination</i> , 2022, 524, 115481.	4.0	11
44	Core-Shell Interface-Oriented Synthesis of Bowl-Structured Hollow Silica Nanospheres Using Self-Assembled ABC Triblock Copolymeric Micelles. <i>Langmuir</i> , 2018, 34, 13584-13596.	1.6	9
45	Rejection of harsh pH saline solutions using graphene membranes. <i>Carbon</i> , 2021, 171, 240-247.	5.4	9
46	Fabrication and characterization of high-performance acetone-assisted polyamide thin-film composite membranes for fluoridated saline water treatment. <i>Desalination</i> , 2022, 538, 115922.	4.0	9
47	Emerging investigator series: engineering membrane distillation with nanofabrication: design, performance and mechanisms. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1786-1793.	1.2	7
48	Effect of chemical cleaning conditions on the flux recovery of MF membrane as pretreatment of seawater desalination. <i>Desalination and Water Treatment</i> , 2013, 51, 6329-6337.	1.0	6
49	Removal of nitrogen by a sulfur-based carrier with powdered activated carbon (PAC) for denitrification in membrane bioreactor (MBR). <i>Journal of Water Process Engineering</i> , 2020, 34, 101149.	2.6	6
50	Evaluation of the advanced oxidation process integrated with microfiltration for reverse osmosis to treat semiconductor wastewater. <i>Chemical Engineering Research and Design</i> , 2022, 162, 1057-1066.	2.7	6
51	Evaluation of the different integrated pre-treatment processes for the ceramic based microfiltration. <i>Chemical Engineering Research and Design</i> , 2020, 139, 210-217.	2.7	4
52	Effect of various pretreatments on the performance of nanofiltration for wastewater reuse. <i>Desalination and Water Treatment</i> , 2016, 57, 7522-7530.	1.0	3