

# Yun Chul Woo

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

3,800  
citations

186265  
28  
h-index

175258  
52  
g-index

52  
all docs

52  
docs citations

52  
times ranked

3129  
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.	8.2	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.	8.2	320
3	Anti-fouling graphene-based membranes for effective water desalination. <i>Nature Communications</i> , 2018, 9, 683.	12.8	197
4	CF <sub>4</sub> plasma-modified omniphobic electrospun nanofiber membrane for produced water brine treatment by membrane distillation. <i>Journal of Membrane Science</i> , 2017, 529, 234-242.	8.2	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.	8.2	167
6	Electrospun nanofiber membranes incorporating fluorosilane-coated TiO <sub>2</sub> nanocomposite for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016, 520, 145-154.	8.2	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.	14.7	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.	12.7	134
9	Electrospun dual-layer nonwoven membrane for desalination by air gap membrane distillation. <i>Desalination</i> , 2017, 403, 187-198.	8.2	133
10	Advanced multi-nozzle electrospun functionalized titanium dioxide/polyvinylidene fluoride-co-hexafluoropropylene (TiO <sub>2</sub> /PVDF-HFP) composite membranes for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2017, 524, 712-720.	8.2	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 &amp; Technology</i> , 2017, 51, 10117-10126.	10.0	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.	8.2	107
13	Effect of sulphonated polyethersulfone substrate for thin film composite forward osmosis membrane. <i>Desalination</i> , 2016, 389, 129-136.	8.2	97
14	Effect of heat-press conditions on electrospun membranes for desalination by direct contact membrane distillation. <i>Desalination</i> , 2016, 378, 80-91.	8.2	97
15	Hierarchical Composite Membranes with Robust Omniphobic Surface Using Layer-By-Layer Assembly Technique. <i>Environmental Science &amp; Technology</i> , 2018, 52, 2186-2196.	10.0	90
16	Removal of fluoride in membrane-based water and wastewater treatment technologies: Performance review. <i>Journal of Environmental Management</i> , 2019, 251, 109524.	7.8	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.	8.2	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.	8.2	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.	8.2	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.	8.2	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.	8.2	53
22	A comprehensive review of MXene-based water-treatment membranes and technologies: Recent progress and perspectives. <i>Desalination</i> , 2022, 522, 115448.	8.2	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.	8.2	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.	8.0	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.	9.6	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.	7.8	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.	8.2	38
28	Membrane-based technologies for zero liquid discharge and fluoride removal from industrial wastewater. <i>Chemosphere</i> , 2019, 236, 124288.	8.2	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.	2.5	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.	12.0	24
31	A pilot study of spiral-wound air gap membrane distillation process and its energy efficiency analysis. <i>Chemosphere</i> , 2020, 239, 124696.	8.2	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.	8.2	20
33	Membrane Distillation for Strategic Water Treatment Applications: Opportunities, Challenges, and Current Status. <i>Current Pollution Reports</i> , 2020, 6, 173-187.	6.6	20
34	Energy recovery through reverse electrodialysis: Harnessing the salinity gradient from the flushing of human urine. <i>Water Research</i> , 2020, 186, 116320.	11.3	17
35	Analysis of mass transfer behavior in membrane distillation: Mathematical modeling under various conditions. <i>Chemosphere</i> , 2019, 236, 124289.	8.2	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.	8.2	16

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37	Effect of chemical cleaning conditions on the flux recovery of fouled membrane. Desalination and Water Treatment, 2013, 51, 5268-5274.	1.0	15
38	Enhancement of nanoscale zero-valent iron immobilization onto electrospun polymeric nanofiber mats for groundwater remediation. Chemical Engineering Research and Design, 2017, 112, 200-208.	5.6	14
39	Status and future trends of hollow fiber biogas separation membrane fabrication and modification techniques. Chemosphere, 2022, 303, 134959.	8.2	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. Desalination and Water Treatment, 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. Chemosphere, 2022, 296, 133969.	8.2	12
42	Fouling characteristics of microfiltration membranes by organic and inorganic matter and evaluation of flux recovery by chemical cleaning. Desalination and Water Treatment, 2014, 52, 6920-6929.	1.0	11
43	Enhancing performances of polyamide thin film composite membranes via co-solvent assisted interfacial polymerization. Desalination, 2022, 524, 115481.	8.2	11
44	Core-Shell Interface-Oriented Synthesis of Bowl-Structured Hollow Silica Nanospheres Using Self-Assembled ABC Triblock Copolymeric Micelles. Langmuir, 2018, 34, 13584-13596.	3.5	9
45	Rejection of harsh pH saline solutions using graphene membranes. Carbon, 2021, 171, 240-247.	10.3	9
46	Fabrication and characterization of high-performance acetone-assisted polyamide thin-film composite membranes for fluoridated saline water treatment. Desalination, 2022, 538, 115922.	8.2	9
47	Emerging investigator series: engineering membrane distillation with nanofabrication: design, performance and mechanisms. Environmental Science: Water Research and Technology, 2020, 6, 1786-1793.	2.4	7
48	Effect of chemical cleaning conditions on the flux recovery of MF membrane as pretreatment of seawater desalination. Desalination and Water Treatment, 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). Journal of Water Process Engineering, 2020, 34, 101149.	5.6	6
50	Evaluation of the advanced oxidation process integrated with microfiltration for reverse osmosis to treat semiconductor wastewater. Chemical Engineering Research and Design, 2022, 162, 1057-1066.	5.6	6
51	Evaluation of the different integrated pre-treatment processes for the ceramic based microfiltration. Chemical Engineering Research and Design, 2020, 139, 210-217.	5.6	4
52	Effect of various pretreatments on the performance of nanofiltration for wastewater reuse. Desalination and Water Treatment, 2016, 57, 7522-7530.	1.0	3