List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Recent developments in forward osmosis: Opportunities and challenges. Journal of Membrane Science, 2012, 396, 1-21.	8.2	1,141
2	Status and progress of membrane contactors in post-combustion carbon capture: A state-of-the-art review of new developments. Journal of Membrane Science, 2016, 511, 180-206.	8.2	249
3	Specially Wettable Membranes for Oil–Water Separation. Advanced Materials Interfaces, 2018, 5, 1800576.	3.7	212
4	Brackish water desalination by a hybrid forward osmosis–nanofiltration system using divalent draw solute. Desalination, 2012, 284, 175-181.	8.2	208
5	Relating solution physicochemical properties to internal concentration polarization in forward osmosis. Journal of Membrane Science, 2011, 379, 459-467.	8.2	201
6	Conventional Ultrafiltration As Effective Strategy for Dye/Salt Fractionation in Textile Wastewater Treatment. Environmental Science & amp; Technology, 2018, 52, 10698-10708.	10.0	201
7	Effects of working temperature on separation performance, membrane scaling and cleaning in forward osmosis desalination. Desalination, 2011, 278, 157-164.	8.2	196
8	Engineering antifouling reverse osmosis membranes: A review. Desalination, 2021, 499, 114857.	8.2	192
9	Effects of membrane orientation on process performance in forward osmosis applications. Journal of Membrane Science, 2011, 382, 308-315.	8.2	170
10	Organic fouling in pressure retarded osmosis: Experiments, mechanisms and implications. Journal of Membrane Science, 2013, 428, 181-189.	8.2	155
11	Advanced desalination of dye/NaCl mixtures by a loose nanofiltration membrane for digital ink-jet printing. Separation and Purification Technology, 2018, 197, 27-35.	7.9	144
12	Polyaniline-based adsorbents for aqueous pollutants removal: A review. Chemical Engineering Journal, 2021, 418, 129425.	12.7	108
13	Simultaneous heat and water recovery from flue gas by membrane condensation: Experimental investigation. Applied Thermal Engineering, 2017, 113, 843-850.	6.0	100
14	Transport membrane condenser for water and heat recovery from gaseous streams: Performance evaluation. Journal of Membrane Science, 2015, 484, 10-17.	8.2	97
15	Enhancing water permeability and fouling resistance of polyvinylidene fluoride membranes with carboxylated nanodiamonds. Journal of Membrane Science, 2018, 556, 154-163.	8.2	96
16	Integrated absorption-mineralisation for low-energy CO2 capture and sequestration. Applied Energy, 2018, 225, 356-366.	10.1	93
17	Structures and antifouling properties of polyvinyl chloride/poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Journal of Membrane Science, 2017, 524, 235-244.	f 50 107 ⁻ 8.2	Γd (methacry 85
18	Effective dye purification using tight ceramic ultrafiltration membrane. Journal of Membrane Science, 2018, 566, 151-160.	8.2	85

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19	Improved antifouling properties of polyvinyl chloride blend membranes by novel phosphate based-zwitterionic polymer additive. Journal of Membrane Science, 2017, 528, 326-335.	8.2	84
20	Positively charged nanofiltration membrane based on cross-linked polyvinyl chloride copolymer. Journal of Membrane Science, 2019, 572, 28-37.	8.2	81
21	Relating water vapor transfer to ammonia recovery from biogas slurry by vacuum membrane distillation. Separation and Purification Technology, 2018, 191, 182-191.	7.9	78
22	Scalable fabrication of robust superhydrophobic membranes by one-step spray-coating for gravitational water-in-oil emulsion separation. Separation and Purification Technology, 2020, 231, 115898.	7.9	78
23	Fabrication and characterization of TiO2/ZrO2 ceramic membranes for nanofiltration. Microporous and Mesoporous Materials, 2018, 260, 125-131.	4.4	76
24	Developing new adsorptive membrane by modification of support layer with iron oxide microspheres for arsenic removal. Journal of Colloid and Interface Science, 2018, 514, 760-768.	9.4	75
25	Sustainable management of landfill leachate concentrate through recovering humic substance as liquid fertilizer by loose nanofiltration. Water Research, 2019, 157, 555-563.	11.3	75
26	Thin-Film Composite Membrane with Interlayer Decorated Metal–Organic Framework UiO-66 toward Enhanced Forward Osmosis Performance. Industrial & Engineering Chemistry Research, 2019, 58, 195-206.	3.7	73
27	Insights into Carbonation Kinetics of Fly Ash from Victorian Lignite for CO ₂ Sequestration. Energy & Fuels, 2018, 32, 4569-4578.	5.1	70
28	Self-assembly enabled nano-intercalation for stable high-performance MXene membranes. Journal of Membrane Science, 2021, 635, 119464.	8.2	70
29	High-flux nanofiltration membranes tailored by bio-inspired co-deposition of hydrophilic g-C ₃ N ₄ nanosheets for enhanced selectivity towards organics and salts. Environmental Science: Nano, 2019, 6, 2958-2967.	4.3	68
30	Loose nanofiltration-based electrodialysis for highly efficient textile wastewater treatment. Journal of Membrane Science, 2020, 608, 118182.	8.2	68
31	Comparing the antifouling effects of activated carbon and TiO2 in ultrafiltration membrane development. Journal of Colloid and Interface Science, 2018, 515, 109-118.	9.4	67
32	Enhancing wetting resistance of poly(vinylidene fluoride) membranes for vacuum membrane distillation. Desalination, 2017, 415, 58-66.	8.2	66
33	Condensation studies in membrane evaporation and sweeping gas membrane distillation. Journal of Membrane Science, 2014, 462, 9-16.	8.2	62
34	Robust bio-inspired superhydrophilic and underwater superoleophobic membranes for simultaneously fast water and oil recovery. Journal of Membrane Science, 2021, 623, 119041.	8.2	62
35	Polyvinylidene fluoride membrane functionalized with zero valent iron for highly efficient degradation of organic contaminants. Separation and Purification Technology, 2020, 250, 117266.	7.9	60
36	Hierarchically superhydrophilic poly(vinylidene fluoride) membrane with self-cleaning fabricated by surface mineralization for stable separation of oily wastewater. Journal of Membrane Science, 2021, 640, 119864.	8.2	60

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37	CO2 removal from biogas by using green amino acid salts: Performance evaluation. Fuel Processing Technology, 2015, 129, 203-212.	7.2	58
38	Enhancing co-catalysis of MoS2 for persulfate activation in Fe3+-based advanced oxidation processes via defect engineering. Chemical Engineering Journal, 2021, 417, 127987.	12.7	58
39	Perfluorinated superhydrophobic and oleophobic SiO2@PTFE nanofiber membrane with hierarchical nanostructures for oily fume purification. Journal of Membrane Science, 2020, 594, 117473.	8.2	57
40	Effects of fly ash properties on carbonation efficiency in CO2 mineralisation. Fuel Processing Technology, 2019, 188, 79-88.	7.2	56
41	Significant roles of substrate properties in forward osmosis membrane performance: A review. Desalination, 2022, 528, 115615.	8.2	55
42	Biogas upgrading by CO2 removal with a highly selective natural amino acid salt in gas–liquid membrane contactor. Chemical Engineering and Processing: Process Intensification, 2014, 85, 125-135.	3.6	54
43	Multichannel Tubular Ceramic Membrane for Water and Heat Recovery from Waste Gas Streams. Industrial & Engineering Chemistry Research, 2016, 55, 2615-2622.	3.7	54
44	Renewable CO2 absorbent for carbon capture and biogas upgrading by membrane contactor. Separation and Purification Technology, 2018, 194, 207-215.	7.9	53
45	Simple Amphoteric Charge Strategy to Reinforce Superhydrophilic Polyvinylidene Fluoride Membrane for Highly Efficient Separation of Various Surfactant-Stabilized Oil-in-Water Emulsions. ACS Applied Materials & Interfaces, 2020, 12, 47018-47028.	8.0	52
46	Integrated absorption–mineralisation for energy-efficient CO2 sequestration: Reaction mechanism and feasibility of using fly ash as a feedstock. Chemical Engineering Journal, 2018, 352, 151-162.	12.7	51
47	Hierarchically Active Poly(vinylidene fluoride) Membrane Fabricated by In Situ Generated Zero-Valent Iron for Fouling Reduction. ACS Applied Materials & Interfaces, 2020, 12, 10993-11004.	8.0	49
48	Innovative Use of Membrane Contactor as Condenser for Heat Recovery in Carbon Capture. Environmental Science & Technology, 2015, 49, 2532-2540.	10.0	47
49	Janus Membrane with Unparalleled Forward Osmosis Performance. Environmental Science and Technology Letters, 2019, 6, 79-85.	8.7	47
50	Entropy generation analysis of heat and water recovery from flue gas by transport membrane condenser. Energy, 2019, 174, 835-847.	8.8	46
51	Antibiotic enhanced dopamine polymerization for engineering antifouling and antimicrobial membranes. Chinese Chemical Letters, 2020, 31, 851-854.	9.0	46
52	Omniphobic membranes for distillation: Opportunities and challenges. Chinese Chemical Letters, 2021, 32, 3298-3306.	9.0	46
53	High-performance electrocatalytic microfiltration CuO/Carbon membrane by facile dynamic electrodeposition for small-sized organic pollutants removal. Journal of Membrane Science, 2020, 601, 117913.	8.2	43
54	Super-adsorptive and photo-regenerable carbon nanotube based membrane for highly efficient water purification. Journal of Membrane Science, 2021, 621, 119000.	8.2	43

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55	Incorporating organic nanospheres into the polyamide layer to prepare thin film composite membrane with enhanced biocidal activity and chlorine resistance. Separation and Purification Technology, 2018, 207, 222-230.	7.9	42
56	Dopamine incorporating forward osmosis membranes with enhanced selectivity and antifouling properties. RSC Advances, 2018, 8, 22469-22481.	3.6	41
57	Closing CO ₂ Loop in Biogas Production: Recycling Ammonia As Fertilizer. Environmental Science & Technology, 2017, 51, 8841-8850.	10.0	40
58	Edible films and coatings for shelf life extension of mango: a review. Critical Reviews in Food Science and Nutrition, 2022, 62, 2432-2459.	10.3	40
59	Activation of persulfate by MnOOH: Degradation of organic compounds by nonradical mechanism. Chemosphere, 2021, 272, 129629.	8.2	40
60	Condensation, re-evaporation and associated heat transfer in membrane evaporation and sweeping gas membrane distillation. Journal of Membrane Science, 2015, 475, 445-454.	8.2	39
61	Sustainable management of saline oily wastewater via forward osmosis using aquaporin membrane. Chemical Engineering Research and Design, 2020, 138, 199-207.	5.6	39
62	Hydrothermally stable Zr-doped organosilica membranes for H2/CO2 separation. Microporous and Mesoporous Materials, 2016, 224, 277-284.	4.4	38
63	Removal mechanisms of perfluorinated compounds (PFCs) by nanofiltration: Roles of membrane-contaminant interactions. Chemical Engineering Journal, 2021, 406, 126814.	12.7	38
64	Integrated loose nanofiltration-electrodialysis process for sustainable resource extraction from high-salinity textile wastewater. Journal of Hazardous Materials, 2021, 419, 126505.	12.4	38
65	Membrane evaporation of amine solution for energy saving in post-combustion carbon capture: Performance evaluation. Journal of Membrane Science, 2015, 473, 274-282.	8.2	37
66	Pd-doped organosilica membrane with enhanced gas permeability and hydrothermal stability for gas separation. Journal of Materials Science, 2016, 51, 6275-6286.	3.7	37
67	Multifunctional metal organic framework and carbon nanotube-modified filter for combined ultrafine dust capture and SO ₂ dynamic adsorption. Environmental Science: Nano, 2018, 5, 3023-3031.	4.3	37
68	Membrane evaporation of amine solution for energy saving in post-combustion carbon capture: Wetting and condensation. Separation and Purification Technology, 2015, 146, 60-67.	7.9	35
69	Carboxylated Nanodiamond-Enhanced Photocatalytic Membranes with Improved Antifouling and Self-Cleaning Properties. Industrial & Engineering Chemistry Research, 2020, 59, 3538-3549.	3.7	34
70	Once-through CO 2 absorption for simultaneous biogas upgrading and fertilizer production. Fuel Processing Technology, 2017, 166, 50-58.	7.2	33
71	Relating forward water and reverse salt fluxes to membrane porosity and tortuosity in forward osmosis: CFD modelling. Separation and Purification Technology, 2020, 241, 116727.	7.9	33
72	Waste-derived low-cost ceramic membranes for water treatment: Opportunities, challenges and future directions. Resources, Conservation and Recycling, 2022, 185, 106497.	10.8	33

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73	Optimization of novel composite membranes for water and mineral recovery by vacuum membrane distillation. Desalination, 2018, 440, 39-47.	8.2	32
74	Membrane heat exchanger for novel heat recovery in carbon capture. Journal of Membrane Science, 2019, 577, 60-68.	8.2	32
75	Integrated membrane system without adding chemicals for produced water desalination towards zero liquid discharge. Desalination, 2020, 496, 114693.	8.2	32
76	Hierarchical poly(vinylidene fluoride)/active carbon composite membrane with self-confining functional carbon nanotube layer for intractable wastewater remediation. Journal of Membrane Science, 2020, 603, 118041.	8.2	32
77	High-performance porous anion exchange membranes for efficient acid recovery from acidic wastewater by diffusion dialysis. Journal of Membrane Science, 2021, 624, 119116.	8.2	31
78	Activation of peroxymonosulfate by MnO2 with oxygen vacancies: Degradation of organic compounds by electron transfer nonradical mechanism. Journal of Environmental Chemical Engineering, 2022, 10, 107481.	6.7	30
79	Osmotic Pressure versus Swelling Pressure: Comment on "Bifunctional Polymer Hydrogel Layers As Forward Osmosis Draw Agents for Continuous Production of Fresh Water Using Solar Energy― Environmental Science & Technology, 2014, 48, 4212-4213.	10.0	29
80	Insights into the pollutant electron property inducing the transformation of peroxymonosulfate activation mechanisms on manganese dioxide. Applied Catalysis B: Environmental, 2022, 317, 121753.	20.2	29
81	Theoretical and experimental study of organic fouling of loose nanofiltration membrane. Journal of the Taiwan Institute of Chemical Engineers, 2018, 93, 509-518.	5.3	28
82	Sustainable management of landfill leachate concentrate via nanofiltration enhanced by one-step rapid assembly of metal-organic coordination complexes. Water Research, 2021, 204, 117633.	11.3	28
83	Enhanced fouling and wetting resistance of composite Hyflon AD/poly(vinylidene fluoride) membrane in vacuum membrane distillation. Separation and Purification Technology, 2019, 211, 135-140.	7.9	27
84	Assessment of hydropower sustainability: Review and modeling. Journal of Cleaner Production, 2021, 321, 128898.	9.3	26
85	Superhydrophilic photocatalytic g-C3N4/SiO2 composite membranes for effective separation of oil-in-water emulsion and bacteria removal. Separation and Purification Technology, 2022, 290, 120917.	7.9	25
86	Elevated nanofiltration performance via mussel-inspired co-deposition for sustainable resource extraction from landfill leachate concentrate. Chemical Engineering Journal, 2020, 388, 124200.	12.7	24
87	Enhancing water permeability and antifouling performance of thin–film composite membrane by tailoring the support layer. Desalination, 2021, 516, 115193.	8.2	23
88	Waste-derived carbon fiber membrane with hierarchical structures for enhanced oil-in-water emulsion separation: Performance and mechanisms. Journal of Membrane Science, 2022, 653, 120543.	8.2	21
89	Heat and mass transfer in a hollow fiber membrane contactor for sweeping gas membrane distillation. Separation and Purification Technology, 2019, 220, 334-344.	7.9	20
90	Piperazine-functionalized porous anion exchange membranes for efficient acid recovery by diffusion dialysis. Journal of Membrane Science, 2022, 654, 120560.	8.2	20

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91	Reinforcing hydration layer on membrane surface via nano-capturing and hydrothermal crosslinking for fouling reduction. Journal of Membrane Science, 2022, 644, 120076.	8.2	18
92	A novel strategy to enhance hydrothermal stability of Pd-doped organosilica membrane for hydrogen separation. Microporous and Mesoporous Materials, 2017, 253, 55-63.	4.4	16
93	Dopamine Incorporated Forward Osmosis Membranes with High Structural Stability and Chlorine Resistance. Processes, 2018, 6, 151.	2.8	16
94	Enhancement of ball-milling on pyrite/zero-valent iron for persulfate activation on imidacloprid removal in aqueous solution: A mechanistic study. Journal of Environmental Chemical Engineering, 2021, 9, 105647.	6.7	15
95	Regulating Crystal Facets of MnO2 for Enhancing Peroxymonosulfate Activation to Degrade Pollutants: Performance and Mechanism. Catalysts, 2022, 12, 342.	3.5	15
96	Development of antifouling poly(vinyl chloride) blend membranes by atom transfer radical polymerization. Journal of Applied Polymer Science, 2018, 135, 45832.	2.6	14
97	Developing novel thin film composite membrane on a permeate spacer backing fabric for forward osmosis. Chemical Engineering Research and Design, 2020, 160, 326-334.	5.6	13
98	Tuning sol size to optimize organosilica membranes for gas separation. Chinese Journal of Chemical Engineering, 2018, 26, 53-59.	3.5	12
99	Renewable aqueous ammonia from biogas slurry for carbon capture: Chemical composition and CO2 absorption rate. International Journal of Greenhouse Gas Control, 2018, 77, 46-54.	4.6	12
100	Editorial: Advanced Membrane Science and Technology for Sustainable Environmental Applications. Frontiers in Chemistry, 2020, 8, 609774.	3.6	11
101	Introducing sorption coefficient through extended UNIQAC and Flory-Huggins models for improved flux prediction in forward osmosis. Chemical Engineering Science, 2019, 198, 33-42.	3.8	10
102	Potential of coagulation/GAC adsorption combined with UV/H 2 O 2 and ozonation for removing dissolved organic matter from secondary RO concentrate. Journal of Chemical Technology and Biotechnology, 2019, 94, 1091-1099.	3.2	9
103	A general QSPR protocol for the prediction of atomic/inter-atomic properties: a fragment based graph convolutional neural network (F-GCN). Physical Chemistry Chemical Physics, 2021, 23, 13242-13249.	2.8	9
104	Confining Nano-Fe ₃ O ₄ in the Superhydrophilic Membrane Skin Layer to Minimize Internal Fouling. ACS Applied Materials & Interfaces, 2022, 14, 26044-26056.	8.0	9
105	Exploring the Key Factors in Dusty Gas Filtration: Experimental and Modeling Studies. Industrial & Engineering Chemistry Research, 2019, 58, 19633-19641.	3.7	6
106	Graphitic Carbon Nitride/Copperâ€Iron Oxide Composite for Effective Fenton Degradation of Ciprofloxacin at Nearâ€Neutral pH. ChemistrySelect, 2020, 5, 8198-8206.	1.5	6
107	Discrete silver nanoparticle infusion across silica aerogels towards versatile catalytic coatings for 4-nitrophenol reduction. Materials Chemistry and Physics, 2019, 223, 404-409.	4.0	5
108	Supramolecular Membranes for Liquid Separation. Chemistry in the Environment, 2021, , 232-255.	0.4	0