Bart Van der Bruggen

List of Publications by Year
in descending order

496 papers	31,127 citations	4960 84 h-index	8866 145 g-index
502 all docs	502 docs citations	502 times ranked	19645 citing authors

#	Article	IF	Citations
1	Intensification of Middle- and High-Molecular-Weight Toxins Removal in Dialysis Process. ASAIO Journal, 2023, 69, 231-238.	1.6	0
2	Hydrophobic polydimethylsiloxane thin-film composite membranes for the efficient pervaporative desalination of seawater and brines. Separation and Purification Technology, 2022, 280, 119819.	7.9	7
3	In situ growth of multifunctional porous organic polymer nanofilms with molecular sieving and catalytic abilities. Chemical Engineering Journal, 2022, 427, 130978.	12.7	13
4	Low-pressure highly permeable polyester loose nanofiltration membranes tailored by natural carbohydrates for effective dye/salt fractionation. Journal of Hazardous Materials, 2022, 421, 126716.	12.4	71
5	A review of zeolite materials used in membranes for water purification: history, applications, challenges and future trends. Journal of Chemical Technology and Biotechnology, 2022, 97, 575-596.	3.2	24
6	Fouling, performance and cost analysis of membrane-based water desalination technologies: A critical review. Journal of Environmental Management, 2022, 301, 113922.	7.8	71
7	Omnifarious performance promotion of the TFC NF membrane prepared with hyperbranched polyester intervened interfacial polymerization. Journal of Membrane Science, 2022, 642, 119984.	8.2	35
8	Recovery of phosphate and ammonium nitrogen as struvite from aqueous solutions using a magnesiumâ€“air cell system. Science of the Total Environment, 2022, 819, 152006.	8.0	11
9	Effect of the bio-inspired modification of low-cost membranes with TiO2:ZnO as microbial fuel cell membranes. Chemosphere, 2022, 291, 132840.	8.2	10
10	Triethanolamine modification produces ultra-permeable nanofiltration membrane with enhanced removal efficiency of heavy metal ions. Journal of Membrane Science, 2022, 644, 120127.	8.2	33
11	Facile fabrication of a positively charged nanofiltration membrane for heavy metal and dye removal. Separation and Purification Technology, 2022, 282, 120155.	7.9	53
12	Membrane bioreactors for hospital wastewater treatment: recent advancements in membranes and processes. Frontiers of Chemical Science and Engineering, 2022, 16, 634-660.	4.4	9
13	Simultaneous Enzymatic Cellulose Hydrolysis and Product Separation in a Radial-Flow Membrane Bioreactor. Molecules, 2022, 27, 288.	3.8	6
14	Mechanistic Insights of a Thermoresponsive Interface for Fouling Control of Thin-Film Composite Nanofiltration Membranes. Environmental Science & Technology, 2022, 56, 1927-1937.	10.0	32
15	Hydrogel supported positively charged ultrathin polyamide layer with antimicrobial properties via Ag modification. Separation and Purification Technology, 2022, 284, 120295.	7.9	16
16	Selective removal of heavy metals from saline water by nanofiltration. Desalination, 2022, 525, 115380.	8.2	40
17	Self-assembled embedding of ion exchange materials into nanofiber-based hydrogel framework for fluoride capture. Chemical Engineering Journal, 2022, 431, 134201.	12.7	29
18	A prebiotic chemistry inspired one-step functionalization of zwitterionic nanofiltration membranes for efficient molecular separation. , 2022, 2, 100013.		1

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19	Collagen Fibril-Assembled Skin-Simulated Membrane for Continuous Molecular Separation. ACS Applied Materials & Interfaces, 2022, 14, 7358-7368.	8.0	9
20	Development of high performance pervaporation desalination membranes: A brief review. Chemical Engineering Research and Design, 2022, 159, 1092-1104.	5.6	18
21	Removal of Phosphate from the Healthcare Wastewater Through Peroxi-Photoelectrocoagulation Process: Effect of Process Parameters. International Journal of Environmental Research, 2022, 16, 1.	2.3	5
22	Arsenic and cation metal removal from copper slag using a bipolar membrane electrodialysis system. Journal of Cleaner Production, 2022, 338, 130662.	9.3	14
23	Removal of tramadol hydrochloride, an emerging pollutant, from aqueous solution using gamma irradiation combined by nanofiltration. Chemical Engineering Research and Design, 2022, 159, 442-451.	5.6	8
24	Techno-economic assessment of pervaporation desalination of hypersaline water. Desalination, 2022, 527, 115538.	8.2	7
25	Separation of textile wastewater using a highly permeable resveratrol-based loose nanofiltration membrane with excellent anti-fouling performance. Chemical Engineering Journal, 2022, 434, 134705.	12.7	55
26	Plastic waste as a valuable resource: strategy to remove heavy metals from wastewater in bench scale application. Environmental Science and Pollution Research, 2022, 29, 42074-42089.	5.3	3
27	Ionic Control of Functional Zeolitic Imidazolate Framework-Based Membrane for Tailoring Selectivity toward Target Ions. ACS Applied Materials & Interfaces, 2022, 14, 11038-11049.	8.0	11
28	Flat sheet metakaolin ceramic membrane for water desalination via direct contact membrane distillation. Journal of Water Reuse and Desalination, 2022, 12, 131-156.	2.3	0
29	Ultrathin polyamide membranes enabled by spin-coating assisted interfacial polymerization for high-flux nanofiltration. Separation and Purification Technology, 2022, 288, 120648.	7.9	17
30	A novel ceramic-based thin-film composite nanofiltration membrane with enhanced performance and regeneration potential. Water Research, 2022, 215, 118264.	11.3	24
31	Investigation of fluoride and silica removal from semiconductor wastewaters with a clean coagulation-ultrafiltration process. Chemical Engineering Journal, 2022, 438, 135562.	12.7	17
32	Recovery of trivalent and hexavalent chromium from chromium slag using a bipolar membrane system combined with oxidation. Journal of Colloid and Interface Science, 2022, 619, 280-288.	9.4	6
33	Reliability and economic assessment of rainwater harvesting systems for dairy production. Resources, Conservation & Recycling Advances, 2022, 14, 200079.	2.5	4
34	Advanced ion transfer materials in electro-driven membrane processes for sustainable ion-resource extraction and recovery. Progress in Materials Science, 2022, 128, 100958.	32.8	36
35	A versatile chemistry platform for the fabrication of cost-effective hierarchical cation and anion exchange membranes. Desalination, 2022, 535, 115794.	8.2	6
36	A PEI/TMC membrane modified with an ionic liquid with enhanced permeability and antibacterial properties for the removal of heavy metal ions. Journal of Hazardous Materials, 2022, 435, 129010.	12.4	33

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37	A Techno-economic Assessment of a Biocatalytic Chiral Amine Production Process Integrated with In Situ Membrane Extraction. Organic Process Research and Development, 2022, 26, 2052-2066.	2.7	3
38	Vanadium recovery by electrodialysis using polymer inclusion membranes. Journal of Hazardous Materials, 2022, 436, 129315.	12.4	7
39	Esterification of sugarcane bagasse by citric acid for Pb2+ adsorption: effect of different chemical pretreatment methods. Environmental Science and Pollution Research, 2021, 28, 11869-11881.	5.3	17
40	Ultra-high flux alkali-treated cellulose triacetate/cellulose nanocrystal nanocomposite membrane for pervaporation desalination. Chemical Engineering Science, 2021, 231, 116276.	3.8	24
41	Effect of Fe2+ ions on gypsum precipitation during bulk crystallization of reverse osmosis concentrates. Chemosphere, 2021, 263, 127866.	8.2	16
42	Application of UV/chlorine pretreatment for controlling ultrafiltration (UF) membrane fouling caused by different natural organic fractions. Chemosphere, 2021, 263, 127993.	8.2	35
43	Synthesis of Cross-linked Carboxyl Modified Polyvinyl Alcohol and its Application in Selective Adsorption Separation of Cu(II) from Cd(II) and Ni(II). Journal of Polymers and the Environment, 2021, 29, 28-37.	5.0	11
44	Cellulose triacetate/<scp>LUDOXâ€SiO₂</scp> nanocomposite for synthesis of pervaporation desalination membranes. Journal of Applied Polymer Science, 2021, 138, 50000.	2.6	11
45	Composite anti-scaling membrane made of interpenetrating networks of nanofibers for selective separation of lithium. Journal of Membrane Science, 2021, 618, 118668.	8.2	59
46	Effect of biopolymers and humic substances on gypsum scaling and membrane wetting during membrane distillation. Journal of Membrane Science, 2021, 617, 118638.	8.2	78
47	Extractant Forced-Circulation Three-Phase Extraction for the Preconcentration of Parts-per-Billion (Ppb)-Level Cadmium(II) from Natural Waters. Analytical Letters, 2021, 54, 1561-1577.	1.8	0
48	Synergistic effects of the combined use of ozone and sodium percarbonate for the oxidative degradation of dichlorvos. Journal of Water Process Engineering, 2021, 39, 101721.	5.6	14
49	Sugar-based membranes for nanofiltration. Journal of Membrane Science, 2021, 619, 118786.	8.2	46
50	Erythritol-based polyester loose nanofiltration membrane with fast water transport for efficient dye/salt separation. Chemical Engineering Journal, 2021, 406, 126796.	12.7	162
51	Fabrication of PES-based super-hydrophilic ultrafiltration membranes by combining hydrous ferric oxide particles and UV irradiation. Separation and Purification Technology, 2021, 259, 118132.	7.9	26
52	Design and fabrication of nanofiltration membranes based on intrinsic porous monomer resorcin[4]arene. Desalination, 2021, 500, 114861.	8.2	14
53	Advanced oxidation of benzalkonium chloride in aqueous media under ozone and ozone/UV systems â€“ Degradation kinetics and toxicity evaluation. Chemical Engineering Journal, 2021, 413, 127431.	12.7	23
54	Development of a new method and device for chiral drug enrichment and enantioseparation: Multiple-phase extraction and in situ coupling of crystallization. Separation and Purification Technology, 2021, 257, 117884.	7.9	7

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55	Selective electrodialysis for simultaneous but separate phosphate and ammonium recovery. Environmental Technology (United Kingdom), 2021, 42, 2177-2186.	2.2	27
56	Numerical Modelling Assisted Design of a Compact Ultrafiltration (UF) Flat Sheet Membrane Module. Membranes, 2021, 11, 54.	3.0	6
57	Performance of a Slurry Photocatalytic Membrane Reactor for the Treatment of Real Secondary Wastewater Effluent Polluted by Anticancer Drugs. Industrial & Engineering Chemistry Research, 2021, 60, 2223-2231.	3.7	11
58	CFD and statistical approach to optimize the average air velocity and air volume fraction in an inert-particles spouted-bed reactor (IPSBR) system. Heliyon, 2021, 7, e06369.	3.2	12
59	Sustainable implementation of innovative technologies for water purification. Nature Reviews Chemistry, 2021, 5, 217-218.	30.2	73
60	Effect of pressure and temperature on solvent transport across nanofiltration and reverse osmosis membranes: An activity-derived transport model. Desalination, 2021, 501, 114905.	8.2	13
61	Current status of textile wastewater management practices and effluent characteristics in Tanzania. Water Science and Technology, 2021, 83, 2363-2376.	2.5	30
62	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
63	Self-cleaning loose nanofiltration membranes enabled by photocatalytic Cu-triazolate MOFs for dye/salt separation. Journal of Membrane Science, 2021, 623, 119058.	8.2	87
64	Potential Pitfalls in Membrane Fouling Evaluation: Merits of Data Representation as Resistance Instead of Flux Decline in Membrane Filtration. Membranes, 2021, 11, 460.	3.0	5
65	Regulating composition and structure of nanofillers in thin film nanocomposite (TFN) membranes for enhanced separation performance: A critical review. Separation and Purification Technology, 2021, 266, 118567.	7.9	122
66	Review of Thermal- and Membrane-based Water Desalination Technologies and Integration with Alternative Energy Sources. Materials and Energy, 2021, , 1-40.	0.1	0
67	Introducing gel-based UiO-66-NH2 into polyamide matrix for preparation of new super hydrophilic membrane with superior performance in dyeing wastewater treatment. Journal of Environmental Chemical Engineering, 2021, 9, 105484.	6.7	29
68	Efficiency and mechanism of 2,4-dichlorophenol degradation by the UV/IO4â˜ process. Science of the Total Environment, 2021, 782, 146781.	8.0	44
69	Controllable and Rapid Synthesis of Conjugated Microporous Polymer Membranes via Interfacial Polymerization for Ultrafast Molecular Separation. Chemistry of Materials, 2021, 33, 7047-7056.	6.7	35
70	Thin-Film Composite Membrane Prepared by Interfacial Polymerization on the Integrated ZIF-L Nanosheets Interface for Pervaporation Dehydration. ACS Applied Materials & Interfaces, 2021, 13, 39819-39830.	8.0	19
71	Combined Adsorption and Photocatalytic Degradation for Ciprofloxacin Removal Using Sugarcane Bagasse/N,S-TiO2 Powder Composite. Water (Switzerland), 2021, 13, 2300.	2.7	4
72	A New Process for the Recovery of Ammonia from Ammoniated High-Salinity Brine. Sustainability, 2021, 13, 10014.	3.2	9

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73	Metal-organic framework based membranes for selective separation of target ions. Journal of Membrane Science, 2021, 634, 119407.	8.2	60
74	Direct generation of an ultrathin (8.5Ânm) polyamide film with ultrahigh water permeance via in-situ interfacial polymerization on commercial substrate membrane. Journal of Membrane Science, 2021, 634, 119450.	8.2	46
75	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
76	A novel concept of hierarchical cation exchange membrane fabricated from commodity precursors through an easily scalable process. Journal of Membrane Science, 2021, 636, 119594.	8.2	11
77	Integrated loose nanofiltration-electrodialysis process for sustainable resource extraction from high-salinity textile wastewater. Journal of Hazardous Materials, 2021, 419, 126505.	12.4	38
78	Anti-drying nanofiltration (NF) membranes constructed on PTFE microfiltration (MF) substrate via novel interfacial polymerization. Journal of Membrane Science, 2021, 638, 119721.	8.2	18
79	MOF laminates functionalized polyamide self-cleaning membrane for advanced loose nanofiltration. Separation and Purification Technology, 2021, 275, 119150.	7.9	34
80	Efficient membrane-based affinity separations for chemical applications: A review. Chemical Engineering and Processing: Process Intensification, 2021, 169, 108613.	3.6	22
81	Effective and sustainable adsorbent materials for oil spill cleanup based on a multistage desalination process. Journal of Environmental Management, 2021, 299, 113652.	7.8	18
82	Recovery of Cr(VI) and removal of cationic metals from chromium slag using a modified bipolar membrane system. Journal of Membrane Science, 2021, 639, 119772.	8.2	16
83	MOF-based membranes for pervaporation. Separation and Purification Technology, 2021, 278, 119233.	7.9	40
84	Zr-Porphyrin Metalâ€“Organic Framework-Based Photocatalytic Self-Cleaning Membranes for Efficient Dye Removal. Industrial & Engineering Chemistry Research, 2021, 60, 1850-1858.	3.7	41
85	A Review on Ionic Liquid Gas Separation Membranes. Membranes, 2021, 11, 97.	3.0	80
86	Electrochemical degradation of antivirus drug lamivudine formulation: photoelectrocoagulation, peroxi-electrocoagulation, and peroxi-photoelectrocoagulation processes. Journal of Applied Electrochemistry, 2021, 51, 607-618.	2.9	9
87	Interfacially Polymerized Thinâ€Film Composite Membranes for Organic Solvent Nanofiltration. Advanced Materials Interfaces, 2021, 8, 2001671.	3.7	49
88	Comprehensive Optimization of the Dispersion of Mixing Particles in an Inert-Particle Spouted-Bed Reactor (IPSBR) System. Processes, 2021, 9, 1921.	2.8	6
89	Removal of Heatâ€Stable Salts from Lean Amine of a Gas Refinery via Electrodialysis. Chemical Engineering and Technology, 2021, 44, 318-328.	1.5	10
90	Removal of organic pollutants in coking wastewater based on coal-based adsorbents: A pilot-scale study of static adsorption and flotation. Journal of Environmental Chemical Engineering, 2021, 9, 106844.	6.7	16

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91	Constructed wetlands as nature based solutions in removing organic pollutants from wastewater under irregular flow conditions in a tropical climate. Ecohydrology and Hydrobiology, 2020, 20, 38-47.	2.3	22
92	Treatment of raffinate generated via copper ore hydrometallurgical processing using a bipolar membrane electrodialysis system. Chemical Engineering Journal, 2020, 382, 122956.	12.7	44
93	Incorporation of Al2O3 into cellulose triacetate membranes to enhance the performance of pervaporation for desalination of hypersaline solutions. Desalination, 2020, 474, 114198.	8.2	63
94	Passive permeability assay of doxorubicin through model cell membranes under cancerous and normal membrane potential conditions. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 146, 133-142.	4.3	11
95	Bio-inspired anchoring of amino-functionalized multi-wall carbon nanotubes (N-MWCNTs) onto PES membrane using polydopamine for oily wastewater treatment. Science of the Total Environment, 2020, 711, 134951.	8.0	59
96	Novel anion exchange membrane with low ionic resistance based on chloromethylated/quaternizedâ€grafted polystyrene for energy efficient electromembrane processes. Journal of Applied Polymer Science, 2020, 137, 48656.	2.6	27
97	A Facile and Scalable Fabrication Procedure for Thin-Film Composite Membranes: Integration of Phase Inversion and Interfacial Polymerization. Environmental Science & Technology, 2020, 54, 1946-1954.	10.0	56
98	Hydrogel assisted interfacial polymerization for advanced nanofiltration membranes. Journal of Materials Chemistry A, 2020, 8, 3238-3245.	10.3	99
99	Facile preparation of COF composite membranes for nanofiltration by stoichiometric spraying layer-by-layer self-assembly. Chemical Communications, 2020, 56, 419-422.	4.1	47
100	Photocatalysis Using UV-A and UV-C Light Sources for Advanced Oxidation of Anti-Cancer Drugs Spiked in Laboratory-Grade Water and Synthetic Urine. Industrial & Engineering Chemistry Research, 2020, 59, 647-653.	3.7	14
101	High-performance thin film nanocomposite membranes enabled by nanomaterials with different dimensions for nanofiltration. Journal of Membrane Science, 2020, 596, 117717.	8.2	86
102	3D printed chemically and mechanically robust membrane by selective laser sintering for separation of oil/water and immiscible organic mixtures. Chemical Engineering Journal, 2020, 385, 123816.	12.7	29
103	One-step fabrication of isotropic poly(vinylidene fluoride) membranes for direct contact membrane distillation (DCMD). Desalination, 2020, 477, 114265.	8.2	36
104	Improving the performance of loose nanofiltration membranes by poly-dopamine/zwitterionic polymer coating with hydroxyl radical activation. Separation and Purification Technology, 2020, 238, 116412.	7.9	49
105	Preparation of PSEBS membranes bearing (S)-(â˜')-methylbenzylamine as chiral selector. European Polymer Journal, 2020, 122, 109381.	5.4	17
106	Separation of racemic compound by nanofibrous composite membranes with chiral selector. Journal of Membrane Science, 2020, 596, 117728.	8.2	30
107	Ultrafiltration pre-oxidation by boron-doped diamond anode for algae-laden water treatment: membrane fouling mitigation, interface characteristics and cake layer organic release. Water Research, 2020, 187, 116435.	11.3	65
108	Nanocomposite pervaporation membrane for desalination. Chemical Engineering Research and Design, 2020, 164, 147-161.	5.6	38

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109	Tailoring Charged Nanofiltration Membrane Based on Non-Aromatic Tris(3-aminopropyl)amine for Effective Water Softening. Membranes, 2020, 10, 251.	3.0	15
110	Polyelectrolytes self-assembly: versatile membrane fabrication strategy. Journal of Materials Chemistry A, 2020, 8, 20870-20896.	10.3	48
111	Porous organic polymer embedded thin-film nanocomposite membranes for enhanced nanofiltration performance. Journal of Membrane Science, 2020, 602, 117982.	8.2	47
112	UVâ€“Visible Light Driven Photocatalytic Degradation of Ciprofloxacin by N,S Co-doped TiO2: The Effect of Operational Parameters. Topics in Catalysis, 2020, 63, 985-995.	2.8	40
113	Continuous Flow Upgrading of Selected C₂â€“C₆Platform Chemicals Derived from Biomass. Chemical Reviews, 2020, 120, 7219-7347.	47.7	222
114	The world in panic. Journal of Chemical Technology and Biotechnology, 2020, 95, 2051-2051.	3.2	1
115	Fabrication of thin film nanocomposite nanofiltration membrane incorporated with cellulose nanocrystals for removal of Cu(II) and Pb(II). Chemical Engineering Science, 2020, 228, 115998.	3.8	75
116	From waste disposal to valuable material: Sulfonating polystyrene waste for heavy metal removal. Journal of Environmental Chemical Engineering, 2020, 8, 104302.	6.7	41
117	Simultaneous Removal of Trivalent Chromium and Hexavalent Chromium from Soil Using a Modified Bipolar Membrane Electrodialysis System. Environmental Science & Technology, 2020, 54, 13304-13313.	10.0	55
118	Microporous organic polymer-based membranes for ultrafast molecular separations. Progress in Polymer Science, 2020, 110, 101308.	24.7	83
119	Tuning intermolecular pores of resorcin[4]arene-based membranes for enhanced nanofiltration performance. Journal of Membrane Science, 2020, 610, 118282.	8.2	9
120	Polyarylene thioether sulfone/sulfonated sulfone nanofiltration membrane with enhancement of rejection and permeability via molecular designâ˜†. Journal of Membrane Science, 2020, 608, 118241.	8.2	19
121	An integrated separation process for recovery and enantioseparation of amlodipine from wastewater: Supported liquid membrane-aqueous/organic phase crystallization. Separation and Purification Technology, 2020, 248, 117121.	7.9	14
122	Effect of (TiO2: ZnO) ratio on the anti-fouling properties of bio-inspired nanofiltration membranes. Separation and Purification Technology, 2020, 251, 117280.	7.9	25
123	Flexible Aliphaticâ€“Aromatic Polyamide Thin Film Composite Membrane for Highly Efficient Organic Solvent Nanofiltration. ACS Applied Materials & Interfaces, 2020, 12, 31962-31974.	8.0	53
124	Aramid nanofiber and modified ZIF-8 constructed porous nanocomposite membrane for organic solvent nanofiltration. Journal of Membrane Science, 2020, 603, 118002.	8.2	52
125	The potential of Kevlar aramid nanofiber composite membranes. Journal of Materials Chemistry A, 2020, 8, 7548-7568.	10.3	114
126	New Chemistry for Mixed Matrix Membranes: Growth of Continuous Multilayer UiO-66-NH₂ on UiO-66-NH₂-Based Polyacrylonitrile for Highly Efficient Separations. Industrial & Engineering Chemistry Research, 2020, 59, 7825-7838.	3.7	36

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127	Mussel-inspired polydopamine modification of polymeric membranes for the application of water and wastewater treatment: A review. Chemical Engineering Research and Design, 2020, 157, 195-214.	5.6	87
128	An MXene-based membrane for molecular separation. Environmental Science: Nano, 2020, 7, 1289-1304.	4.3	78
129	Preparation, characterization and scaling propensity study of a dopamine incorporated RO/FO TFC membrane for pesticide removal. Journal of Membrane Science, 2020, 612, 118458.	8.2	21
130	Novel Chiral Drug Recovery and Enantioseparation Method: Hollow Fiber Membrane Extraction and In Situ Coupling of Back-Extraction with Crystallization. Industrial & Engineering Chemistry Research, 2020, 59, 13735-13743.	3.7	9
131	Effect of solvent on the morphology and performance of cellulose triacetate membrane/cellulose nanocrystal nanocomposite pervaporation desalination membranes. Chemical Engineering Journal, 2020, 388, 124216.	12.7	50
132	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
133	The challenges of reverse osmosis desalination: solutions in Jordan. Water International, 2020, 45, 112-124.	1.0	15
134	Predicted concentrations of anticancer drugs in the aquatic environment: What should we monitor and where should we treat?. Journal of Hazardous Materials, 2020, 392, 122330.	12.4	55
135	Effect of TiO2 content on the properties of polysulfone nanofiltration membranes modified with a layer of TiO2â€“graphene oxide. Separation and Purification Technology, 2020, 242, 116770.	7.9	50
136	Electric field-based ionic control of selective separation layers. Journal of Materials Chemistry A, 2020, 8, 4244-4251.	10.3	40
137	Nanofiber Based Organic Solvent Anion Exchange Membranes for Selective Separation of Monovalent anions. ACS Applied Materials & Interfaces, 2020, 12, 7539-7547.	8.0	32
138	A process combination of ion exchange and electrodialysis for the recovery and purification of hydroxy acids from secondary sources. Separation and Purification Technology, 2020, 240, 116642.	7.9	15
139	Top-Down Polyelectrolytes for Membrane-Based Post-Combustion CO2 Capture. Molecules, 2020, 25, 323.	3.8	16
140	Heteroepitaxial growth of vertically orientated zeolitic imidazolate frameworkâ€Ł (Co/Znâ€ŽIFâ€Ł) molecular sieve membranes. AIChE Journal, 2020, 66, e16935.	3.6	21
141	Loose nanofiltration-based electrodialysis for highly efficient textile wastewater treatment. Journal of Membrane Science, 2020, 608, 118182.	8.2	68
142	Cr(III) recovery in form of Na2CrO4 from aqueous solution using improved bipolar membrane electrodialysis. Journal of Membrane Science, 2020, 604, 118097.	8.2	26
143	Controllable synthesis of a chemically stable molecular sieving nanofilm for highly efficient organic solvent nanofiltration. Chemical Science, 2020, 11, 4263-4271.	7.4	21
144	Separation of bioâ€based chemicals using pervaporation. Journal of Chemical Technology and Biotechnology, 2020, 95, 2311-2334.	3.2	12

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145	Efficient removal of dyes from aqueous solution: the potential of cellulose nanocrystals to enhance PES nanocomposite membranes. Cellulose, 2020, 27, 5255-5266.	4.9	10
146	Prospects of nanocomposite membranes for water treatment by electrodriven membrane processes. , 2020, , 321-354.		1
147	How to coordinate the trade-off between water permeability and salt rejection in nanofiltration?. Journal of Materials Chemistry A, 2020, 8, 8831-8847.	10.3	162
148	Fabrication and Characterization of Metakaolin Based Flat Sheet Membrane for Membrane Distillation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 651-661.	0.3	0
149	Comparative studies on fouling of homogeneous anion exchange membranes by different structured organics in electrodialysis. Journal of Environmental Sciences, 2019, 77, 218-228.	6.1	37
150	Symmetrically recombined nanofibers in a high-selectivity membrane for cation separation in high temperature and organic solvent. Journal of Materials Chemistry A, 2019, 7, 20006-20012.	10.3	26
151	High-flux nanofiltration membranes tailored by bio-inspired co-deposition of hydrophilic g-C₃N₄ nanosheets for enhanced selectivity towards organics and salts. Environmental Science: Nano, 2019, 6, 2958-2967.	4.3	68
152	Alcohol and Alkane Organic Extraction Using Pervaporation Process. Macromolecular Symposia, 2019, 386, 1800247.	0.7	20
153	Nanofibrous hydrogel composite membranes with ultrafast transport performance for molecular separation in organic solvents. Journal of Materials Chemistry A, 2019, 7, 19269-19279.	10.3	90
154	Activity-derived model for water and salt transport in reverse osmosis membranes: A combination of film theory and electrolyte theory. Desalination, 2019, 469, 114094.	8.2	14
155	Enhancing the electrochemical and antibacterial characteristics of cation exchange membrane by using synthesized (GO-co-Ag) nanoplates. Ionics, 2019, 25, 6123-6133.	2.4	5
156	Fabrication of mixed matrix anion exchange membrane decorated with polyaniline nanoparticles to chloride and sulfate ions removal from water. Ionics, 2019, 25, 6135-6145.	2.4	20
157	Alternating current enhanced deposition of a monovalent selective coating for anion exchange membranes with antifouling properties. Separation and Purification Technology, 2019, 229, 115807.	7.9	31
158	Aminosilane cross-linked poly ether-block-amide PEBAX 2533: Characterization and CO2 separation properties. Korean Journal of Chemical Engineering, 2019, 36, 1339-1349.	2.7	34
159	Application of membrane distillation to anaerobic digestion effluent treatment: Identifying culprits of membrane fouling and scaling. Science of the Total Environment, 2019, 688, 880-889.	8.0	63
160	Improvements in heterogeneous cation exchange membranes by incorporation of Fe2O3 nanoparticles. Ionics, 2019, 25, 4953-4968.	2.4	7
161	110th Anniversary: Cellulose Nanocrystals as Organic Nanofillers for Cellulose Triacetate Membranes Used for Desalination by Pervaporation. Industrial & Engineering Chemistry Research, 2019, 58, 14340-14349.	3.7	30
162	Modeling of a liquid membrane in Taylor flow integrated with lactic acid fermentation. Chemical Engineering and Processing: Process Intensification, 2019, 144, 107643.	3.6	12

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163	Superhydrophilic and underwater superoleophobic membranes - A review of synthesis methods. Progress in Polymer Science, 2019, 98, 101166.	24.7	243
164	Advanced Amino Acid-Based Technologies for CO₂ Capture: A Review. Industrial & Engineering Chemistry Research, 2019, 58, 20181-20194.	3.7	88
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