

Mohtada Sadrzadeh

List of Publications by Year in descending order

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156
papers

6,947
citations

53789

45
h-index

69246

77
g-index

159
all docs

159
docs citations

159
times ranked

5683
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Approach Toward Fabrication of High Performance Thin Film Composite Polyamide Membranes. <i>Scientific Reports</i> , 2016, 6, 22069.	3.3	267
2	Sea water desalination using electrodialysis. <i>Desalination</i> , 2008, 221, 440-447.	8.2	256
3	Thermally stable polymers for advanced high-performance gas separation membranes. <i>Progress in Energy and Combustion Science</i> , 2018, 66, 1-41.	31.2	252
4	Rational design of phase inversion membranes by tailoring thermodynamics and kinetics of casting solution using polymer additives. <i>Journal of Membrane Science</i> , 2013, 441, 31-44.	8.2	249
5	Superhydrophilic and underwater superoleophobic membranes - A review of synthesis methods. <i>Progress in Polymer Science</i> , 2019, 98, 101166.	24.7	243
6	Modeling of metal ion removal from wastewater by electrodialysis. <i>Separation and Purification Technology</i> , 2005, 41, 73-82.	7.9	192
7	Effect of preparation variables on morphology and pure water permeation flux through asymmetric cellulose acetate membranes. <i>Journal of Membrane Science</i> , 2009, 326, 627-634.	8.2	176
8	Effect of operating parameters on Pb ²⁺ separation from wastewater using electrodialysis. <i>Desalination</i> , 2004, 167, 379-385.	8.2	159
9	Surface modification methods of organic solvent nanofiltration membranes. <i>Chemical Engineering Journal</i> , 2016, 289, 562-582.	12.7	146
10	Thin film composite polyamide membranes: parametric study on the influence of synthesis conditions. <i>RSC Advances</i> , 2015, 5, 54985-54997.	3.6	145
11	Recent advances in functionalized polymer membranes for biofouling control and mitigation in forward osmosis. <i>Journal of Membrane Science</i> , 2020, 596, 117604.	8.2	138
12	Fabrication of antifouling and antibacterial polyethersulfone (PES)/cellulose nanocrystals (CNC) nanocomposite membranes. <i>Journal of Membrane Science</i> , 2018, 549, 350-356.	8.2	135
13	Robust fabrication of thin film polyamide-TiO ₂ nanocomposite membranes with enhanced thermal stability and anti-biofouling propensity. <i>Scientific Reports</i> , 2018, 8, 784.	3.3	131
14	Efficient dye removal from aqueous solution by high-performance electrospun nanofibrous membranes through incorporation of SiO ₂ nanoparticles. <i>Journal of Cleaner Production</i> , 2018, 183, 1197-1206.	9.3	121
15	Treatment of sea water using electrodialysis: Current efficiency evaluation. <i>Desalination</i> , 2009, 249, 279-285.	8.2	114
16	Separation of copper ions by electrodialysis using Taguchi experimental design. <i>Desalination</i> , 2004, 169, 21-31.	8.2	106
17	Development of advanced nanocomposite membranes using graphene nanoribbons and nanosheets for water treatment. <i>Journal of Membrane Science</i> , 2018, 560, 97-107.	8.2	105
18	Clay-based electrospun nanofibrous membranes for colored wastewater treatment. <i>Applied Clay Science</i> , 2019, 168, 77-86.	5.2	105

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19	Separation of lead ions from wastewater using electrodialysis: Comparing mathematical and neural network modeling. <i>Chemical Engineering Journal</i> , 2008, 144, 431-441.	12.7	104
20	A parametric study on the synergistic impacts of chemical additives on permeation properties of thin film composite polyamide membrane. <i>Journal of Membrane Science</i> , 2017, 535, 248-257.	8.2	100
21	Gas permeation through a synthesized composite PDMS/PES membrane. <i>Journal of Membrane Science</i> , 2009, 342, 236-250.	8.2	90
22	In Situ Ag-MOF Growth on Pre-Grafted Zwitterions Imparts Outstanding Antifouling Properties to Forward Osmosis Membranes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36287-36300.	8.0	90
23	Carbon-based polymer nanocomposite membranes for oily wastewater treatment. <i>Npj Clean Water</i> , 2019, 2, .	8.0	86
24	Preparation, characterization and fouling analysis of in-air hydrophilic/underwater oleophobic bio-inspired polydopamine coated PES membranes for oily wastewater treatment. <i>Journal of Membrane Science</i> , 2019, 582, 402-413.	8.2	86
25	Toward Sustainable Tackling of Biofouling Implications and Improved Performance of TFC FO Membranes Modified by Ag-MOF Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38285-38298.	8.0	80
26	Improved antifouling and antibacterial properties of forward osmosis membranes through surface modification with zwitterions and silver-based metal organic frameworks. <i>Journal of Membrane Science</i> , 2020, 611, 118352.	8.2	80
27	Effect of operating parameters on pure and mixed gas permeation properties of a synthesized composite PDMS/PA membrane. <i>Journal of Membrane Science</i> , 2009, 342, 327-340.	8.2	79
28	Treatment of oil sands produced water using combined electrocoagulation and chemical coagulation techniques. <i>Science of the Total Environment</i> , 2018, 645, 560-572.	8.0	79
29	Neural network modeling of Pb ²⁺ removal from wastewater using electrodialysis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 1371-1381.	3.6	78
30	Thermally stable thin film composite polymeric membranes for water treatment: A review. <i>Journal of Cleaner Production</i> , 2020, 250, 119447.	9.3	71
31	Synthesis and characterization of polyethersulfone membranes. <i>Journal of Polymer Research</i> , 2010, 17, 363-377.	2.4	69
32	Portable Nanofiber-Light Addressable Potentiometric Sensor for Rapid <i>Escherichia coli</i> Detection in Orange Juice. <i>ACS Sensors</i> , 2018, 3, 815-822.	7.8	69
33	Synthesis of thin film composite polyamide membranes: Effect of monohydric and polyhydric alcohol additives in aqueous solution. <i>Journal of Membrane Science</i> , 2017, 523, 336-345.	8.2	66
34	Separation of different ions from wastewater at various operating conditions using electrodialysis. <i>Separation and Purification Technology</i> , 2007, 54, 147-156.	7.9	65
35	CO ₂ and CH ₄ permeation through T-type zeolite membranes: Effect of synthesis parameters and feed pressure. <i>Separation and Purification Technology</i> , 2008, 61, 317-323.	7.9	64
36	Developing high throughput thin film composite polyamide membranes for forward osmosis treatment of SAGD produced water. <i>Journal of Membrane Science</i> , 2016, 511, 29-39.	8.2	64

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37	Robust superhydrophilic and underwater superoleophobic membrane optimized by Cu doping modified metal-organic frameworks for oil-water separation and water purification. <i>Journal of Membrane Science</i> , 2021, 640, 119755.	8.2	64
38	Surface characterization of thin-film composite membranes using contact angle technique: Review of quantification strategies and applications. <i>Advances in Colloid and Interface Science</i> , 2022, 299, 102524.	14.7	63
39	Bio-inspired anchoring of amino-functionalized multi-wall carbon nanotubes (N-MWCNTs) onto PES membrane using polydopamine for oily wastewater treatment. <i>Science of the Total Environment</i> , 2020, 711, 134951.	8.0	59
40	Nanofiltration of oil sands boiler feed water: Effect of pH on water flux and organic and dissolved solid rejection. <i>Separation and Purification Technology</i> , 2015, 141, 339-353.	7.9	57
41	Industrial waste lignin as an antifouling coating for the treatment of oily wastewater: Creating wealth from waste. <i>Journal of Cleaner Production</i> , 2020, 256, 120304.	9.3	54
42	Development of underwater superoleophobic polyamide-imide (PAI) microfiltration membranes for oil/water emulsion separation. <i>Separation and Purification Technology</i> , 2020, 238, 116451.	7.9	53
43	Treatment of an <i>in situ</i> oil sands produced water by polymeric membranes. <i>Desalination and Water Treatment</i> , 2016, 57, 14869-14887.	1.0	51
44	Mathematical modeling of desalination by electrodialysis. <i>Desalination</i> , 2007, 206, 538-546.	8.2	48
45	Thermally resistant and electrically conductive PES/ITO nanocomposite membrane. <i>Journal of Membrane Science</i> , 2016, 500, 151-160.	8.2	48
46	Ternary gas permeation through a synthesized PDMS membrane: Experimental and modeling. <i>Journal of Membrane Science</i> , 2009, 344, 225-236.	8.2	46
47	C ₃ H ₈ separation from CH ₄ and H ₂ using a synthesized PDMS membrane: Experimental and neural network modeling. <i>Journal of Membrane Science</i> , 2010, 346, 59-70.	8.2	46
48	New insights into the impact of nanoscale surface heterogeneity on the wettability of polymeric membranes. <i>Journal of Membrane Science</i> , 2019, 590, 117270.	8.2	46
49	Fabrication of Highly Permeable and Thermally Stable Reverse Osmosis Thin Film Composite Polyamide Membranes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2916-2925.	8.0	44
50	Robust Polymer Nanocomposite Membranes Incorporating Discrete TiO ₂ Nanotubes for Water Treatment. <i>Nanomaterials</i> , 2019, 9, 1186.	4.1	43
51	Novel nanocomposite polyethersulfone- antimony tin oxide membrane with enhanced thermal, electrical and antifouling properties. <i>Polymer</i> , 2019, 163, 48-56.	3.8	43
52	Separation of monovalent, divalent and trivalent ions from wastewater at various operating conditions using electrodialysis. <i>Desalination</i> , 2007, 205, 53-61.	8.2	40
53	Gravity assisted super high flux microfiltration polyamide-imide membranes for oil/water emulsion separation. <i>Journal of Membrane Science</i> , 2021, 621, 119019.	8.2	40
54	Mathematical modeling of flux decline in ultrafiltration. <i>Desalination</i> , 2005, 184, 367-375.	8.2	39

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55	Mathematical modeling of mass transfer in multicomponent gas mixture across the synthesized composite polymeric membrane. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 870-885.	5.8	39
56	Nickel-Based Metal-Organic Frameworks to Improve the CO ₂ /CH ₄ Separation Capability of Thin-Film Pebax Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12834-12844.	3.7	38
57	Characterization of Boiler Blowdown Water from Steam-Assisted Gravity Drainage and Silica-Organic Coprecipitation during Acidification and Ultrafiltration. <i>Energy & Fuels</i> , 2012, 26, 5604-5612.	5.1	37
58	Effective strategy for UV-mediated grafting of biocidal Ag-MOFs on polymeric membranes aimed at enhanced water ultrafiltration. <i>Chemical Engineering Journal</i> , 2021, 426, 130704.	12.7	37
59	Effect of synthesis parameters on single gas permeation through T-type zeolite membranes. <i>International Journal of Greenhouse Gas Control</i> , 2008, 2, 531-538.	4.6	36
60	Modeling of unsteady-state permeation of gas mixture through a self-synthesized PDMS membranes. <i>Separation and Purification Technology</i> , 2011, 76, 385-399.	7.9	36
61	Substantially improved antifouling properties in electro-oxidative graphene laminate forward osmosis membrane. <i>Chemical Engineering Research and Design</i> , 2019, 141, 413-424.	5.6	36
62	Preparation and characterization of a composite PDMS membrane on CA support. <i>Polymers for Advanced Technologies</i> , 2010, 21, 568-577.	3.2	34
63	Graphene-based electro-conductive anti-fouling membranes for the treatment of oil sands produced water. <i>Science of the Total Environment</i> , 2020, 704, 135365.	8.0	34
64	Effect of operating parameters on concentration of citric acid using electrodialysis. <i>Journal of Food Engineering</i> , 2007, 83, 596-604.	5.2	33
65	Modeling of Air-Gap Membrane Distillation and Comparative Study with Direct Contact Membrane Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 21930-21947.	3.7	33
66	Nanodiamond-Enabled Thin-Film Nanocomposite Polyamide Membranes for High-Temperature Water Treatment. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53274-53285.	8.0	33
67	Coupling a mathematical and a fuzzy logic-based model for prediction of zinc ions separation from wastewater using electrodialysis. <i>Chemical Engineering Journal</i> , 2009, 151, 262-274.	12.7	32
68	Pure and mixed gas permeation through a composite polydimethylsiloxane membrane. <i>Polymers for Advanced Technologies</i> , 2011, 22, 586-597.	3.2	31
69	Nanodiamond-decorated thin film composite membranes with antifouling and antibacterial properties. <i>Desalination</i> , 2022, 522, 115436.	8.2	31
70	Microfiltration of oily wastewater using PP hydrophobic membrane. <i>Desalination</i> , 2006, 200, 319-321.	8.2	30
71	Methods for the Preparation of Organic-Inorganic Nanocomposite Polymer Electrolyte Membranes for Fuel Cells. , 2017, , 311-325.		30
72	Surface grafting of FAU/EMT zeolite with (3-aminopropyl)methyltriethoxysilane optimized using Taguchi experimental design. <i>Chemical Engineering Research and Design</i> , 2012, 90, 1313-1321.	5.6	29

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73	Analytical solution for transient electroosmotic flow in a rotating microchannel. RSC Advances, 2016, 6, 17632-17641.	3.6	29
74	Removal of trace organic contaminants by melamine-tuned highly cross-linked polyamide TFC membranes. Chemosphere, 2020, 238, 124691.	8.2	25
75	Development of antifouling membranes using agro-industrial waste lignin for the treatment of Canada's oil sands produced water. Journal of Membrane Science, 2020, 611, 118326.	8.2	25
76	Green Electrospun Membranes Based on Chitosan/Amino-Functionalized Nanoclay Composite Fibers for Cationic Dye Removal: Synthesis and Kinetic Studies. ACS Omega, 2021, 6, 10816-10827.	3.5	24
77	Synthesis and gas permeation properties of a single layer PDMS membrane. Journal of Applied Polymer Science, 2010, 117, 33-48.	2.6	23
78	Characterization and Comparison of Dissolved Organic Matter Signatures in Steam-Assisted Gravity Drainage Process Water Samples from Athabasca Oil Sands. Energy & Fuels, 2017, 31, 8363-8373.	5.1	23
79	Overview of membrane technology. , 2020, , 1-28.		23
80	Deep learning-based energy management of a hybrid photovoltaic-reverse osmosis-pressure retarded osmosis system. Applied Energy, 2021, 293, 116959.	10.1	23
81	Colloidal fouling of nanofiltration membranes: A novel transient electrokinetic model and experimental study. Chemical Engineering Science, 2015, 138, 153-163.	3.8	22
82	Efficient treatment of oil sands produced water: Process integration using ion exchange regeneration wastewater as a chemical coagulant. Separation and Purification Technology, 2019, 221, 166-174.	7.9	22
83	Direct Micropatterning of Phase Separation Membranes Using Hydrogel Soft Lithography. Advanced Materials Technologies, 2019, 4, 1800384.	5.8	22
84	Thermally stable core-shell star-shaped block copolymers for antifouling enhancement of water purification membranes. Journal of Membrane Science, 2020, 598, 117686.	8.2	22
85	Engineered graphene-based mixed matrix membranes to boost CO ₂ separation performance: Latest developments and future prospects. Renewable and Sustainable Energy Reviews, 2022, 160, 112294.	16.4	22
86	Improvement in gas separation properties of a polymeric membrane through the incorporation of inorganic nanoparticles. Polymers for Advanced Technologies, 2012, 23, 1101-1111.	3.2	21
87	Aggregation and deposition of colloidal particles: Effect of surface properties of collector beads. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 530, 46-52.	4.7	20
88	Electrohydrodynamic patterning of ultra-thin ionic liquid films. Soft Matter, 2015, 11, 2193-2202.	2.7	19
89	Thermo-Electrohydrodynamic Patterning in Nanofilms. Langmuir, 2016, 32, 5776-5786.	3.5	19
90	Fundamentals and Measurement Techniques for Gas Transport in Polymers. , 2018, , 391-423.		19

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91	Investigating fouling at the pore-scale using a microfluidic membrane mimic filtration system. <i>Scientific Reports</i> , 2019, 9, 10587.	3.3	19
92	Preparation and C ₃ H ₈ /Gas Separation Properties of a Synthesized Single Layer PDMS Membrane. <i>Separation Science and Technology</i> , 2010, 45, 592-603.	2.5	18
93	Nonlinear deformation and localized failure of bacterial streamers in creeping flows. <i>Scientific Reports</i> , 2016, 6, 32204.	3.3	18
94	Colloidal Fouling of Nanofiltration Membranes: Development of a Standard Operating Procedure. <i>Membranes</i> , 2017, 7, 4.	3.0	18
95	Development of layer-by-layer assembled polyamide-imide membranes for oil sands produced water treatment. <i>Scientific Reports</i> , 2021, 11, 8098.	3.3	18
96	Micropatterned Thin-Film Composite Poly(piperazine-amide) Nanofiltration Membranes for Wastewater Treatment. <i>ACS Applied Polymer Materials</i> , 2021, 3, 6653-6665.	4.4	18
97	Prediction of ternary gas permeation through synthesized PDMS membranes by using Principal Component Analysis (PCA) and fuzzy logic (FL). <i>Journal of Membrane Science</i> , 2010, 360, 509-521.	8.2	17
98	Compact micro/nano electrohydrodynamic patterning: using a thin conductive film and a patterned template. <i>Soft Matter</i> , 2016, 12, 1074-1084.	2.7	17
99	Dielectric behavior of oil/water emulsions during phase separation probed by electrical impedance spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 460-464.	7.8	17
100	Osmotic dewatering accelerates inherent sluggish kinetics of electro-Fenton process: Toward sustainable removal of organic contaminants. <i>Chemical Engineering Journal</i> , 2020, 394, 125043.	12.7	17
101	Development of a self-sustained model to predict the performance of direct contact membrane distillation. <i>Separation and Purification Technology</i> , 2021, 263, 118407.	7.9	17
102	An Unpowered Sensor Node for Real-Time Water Quality Assessment (Humic Acid Detection). <i>Electronics (Switzerland)</i> , 2018, 7, 231.	3.1	16
103	Study on antifouling behaviors of GO modified nanocomposite membranes through QCM-D and surface energetics analysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 588, 124332.	4.7	16
104	Novel Lignin-Modified Forward Osmosis Membranes: Waste Materials for Wastewater Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15768-15779.	6.7	16
105	Forward osmosis for treatment of oil sands produced water: systematic study of influential parameters. <i>Desalination and Water Treatment</i> , 2016, 57, 22980-22993.	1.0	15
106	Hydrogen Separation by Natural Zeolite Composite Membranes: Single and Multicomponent Gas Transport. <i>Materials</i> , 2017, 10, 1159.	2.9	15
107	Analysis of streaming potential flow and electroviscous effect in a shear-driven charged slit microchannel. <i>Scientific Reports</i> , 2020, 10, 18317.	3.3	15
108	Prediction of surface charge properties on the basis of contact angle titration models. <i>Materials Chemistry and Physics</i> , 2021, 258, 123933.	4.0	15

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109	Abiotic streamers in a microfluidic system. <i>Soft Matter</i> , 2017, 13, 8698-8705.	2.7	14
110	Separation via Pervaporation Techniques Through Polymeric Membranes. , 2018, , 243-263.		14
111	Parametric study on the stabilization of metal oxide nanoparticles in organic solvents: A case study with indium tin oxide (ITO) and heptane. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 1003-1013.	8.2	12
112	Synergistic effect of thermal dehydrating on the emerging contaminants removal via Electro-Fenton. <i>Journal of Cleaner Production</i> , 2022, 356, 131880.	9.3	12
113	Microfluidic Mimic for Colloid Membrane Filtration: A Review. <i>Journal of the Indian Institute of Science</i> , 2018, 98, 137-157.	1.9	11
114	Impact of bacterial streamers on biofouling of microfluidic filtration systems. <i>Biomicrofluidics</i> , 2018, 12, 044116.	2.4	11
115	Integrated Coagulation-Membrane Processes with Zero Liquid Discharge (ZLD) Configuration for the Treatment of Oil Sands Produced Water. <i>Water (Switzerland)</i> , 2019, 11, 1348.	2.7	11
116	Novel data-driven energy management of a hybrid photovoltaic-reverse osmosis desalination system using deep reinforcement learning. <i>Applied Energy</i> , 2022, 317, 119184.	10.1	11
117	The implications of 3D-printed membranes for water and wastewater treatment and resource recovery. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 2309-2321.	1.7	11
118	Enhanced Electrically Induced Micropatterning of Confined Thin Liquid Films: Thermocapillary Role and Its Limitations. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10678-10688.	3.7	10
119	Thermally induced interfacial instabilities and pattern formation in confined liquid nanofilms. <i>Physical Review E</i> , 2018, 98, .	2.1	10
120	A numerical study for thermocapillary induced patterning of thin liquid films. <i>Physics of Fluids</i> , 2020, 32, 024106.	4.0	10
121	Electrohydrodynamic Patterning of Polyethersulfone Membranes. <i>Langmuir</i> , 2019, 35, 12139-12149.	3.5	9
122	New insights into the prediction of adaptive wetting of a solid surface under a liquid medium. <i>Applied Surface Science</i> , 2020, 532, 147444.	6.1	9
123	Ordered high aspect ratio nanopillar formation based on electrical and thermal reflowing of prepatterned thin films. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 312-320.	9.4	8
124	An experimental and numerical study of droplet spreading and imbibition on microporous membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 615, 126191.	4.7	8
125	Functionalized polyamide membranes yield suppression of biofilm and planktonic bacteria while retaining flux and selectivity. <i>Separation and Purification Technology</i> , 2022, 282, 119981.	7.9	8
126	Effect of Operating Conditions on PV Performance of PVA Membranes: Experimental and Neural Network Modeling. <i>Separation Science and Technology</i> , 2012, 47, 1472-1484.	2.5	7

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127	Numerical Investigation of the Entropy Generation Due to Natural Convection in a Partially Heated Square Cavity Filled With Nanofluids. <i>Heat Transfer Engineering</i> , 2017, 38, 1506-1521.	1.9	7
128	New Insights into the Role of the Surrounding Medium Temperature in the Under-Liquid Wetting of Solid Surfaces. <i>Langmuir</i> , 2020, 36, 8301-8310.	3.5	7
129	Poly (methyl methacrylate) grafted wheat straw for economical and eco-friendly treatment of oily wastewater. <i>Cellulose</i> , 2022, 29, 3351-3374.	4.9	7
130	Near wall void growth leads to disintegration of colloidal bacterial streamer. <i>Journal of Colloid and Interface Science</i> , 2018, 522, 249-255.	9.4	6
131	Effect of Internal and External Concentration Polarizations on the Performance of Forward Osmosis Process. , 0, , .		6
132	Durability and Recoverability of Soft Lithographically Patterned Hydrogel Molds for the Formation of Phase Separation Membranes. <i>Micromachines</i> , 2020, 11, 108.	2.9	6
133	Highly Efficient Antifouling Coating of Star-Shaped Block Copolymers with Variable Sizes of Hydrophobic Cores and Charge-Neutral Hydrophilic Arms. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1116-1134.	4.4	6
134	Degradation of pharmaceutical contaminants in water by an advanced plasma treatment. , 0, 139, 202-221.		6
135	A new approach toward modeling of mixed-gas sorption in glassy polymers based on metaheuristic algorithms. <i>Journal of Polymer Science</i> , 2022, 60, 1392-1406.	3.8	5
136	Loose nanofiltration membranes functionalized with in situ-synthesized metal organic framework for water treatment. <i>Materials Today Chemistry</i> , 2022, 24, 100909.	3.5	5
137	Smart harvesting and in-situ application of piezoelectricity in membrane filtration systems. <i>Journal of Membrane Science</i> , 2022, , 120819.	8.2	5
138	Unplugging Standalone Sand Control Screens with High-power Shock Waves: An Experimental Study. , 2020, , .		4
139	An ultrasonic-assisted rapid approach for sustainable fabrication of antibacterial and anti-biofouling membranes via metal-organic frameworks. <i>Materials Today Chemistry</i> , 2022, 26, 101044.	3.5	4
140	Microfluidic Membrane Filtration Systems to Study Biofouling. , 2018, , .		3
141	Experimental Study on the Palatability Impacts of Potable Water as a Hydronic Medium. <i>Water (Switzerland)</i> , 2018, 10, 218.	2.7	3
142	Prospects of nanocomposite membranes for water treatment by osmotic-driven membrane processes. , 2020, , 257-297.		3
143	Nanofiltration for the Treatment of Oil Sands-Produced Water. , 0, , .		2
144	Development of a 3D-printed modified Scheludko-cell: Potential application for adsorption and thin liquid film study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 561, 341-348.	4.7	2

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145	Development of nanocomposite membranes by biomimicking nanomaterials. , 2020, , 219-236.		2
146	Prospects of nanocomposite membranes for water treatment by membrane distillation. , 2020, , 299-320.		2
147	Thermocapillary patterning of non-Newtonian thin films. <i>Physics of Fluids</i> , 2022, 34, .	4.0	2
148	Effects of Electro-Oxidation Process on Tight-Rock Wettability and Imbibition Oil Recovery. <i>Energy & Fuels</i> , 2022, 36, 6771-6784.	5.1	2
149	Effect of intrinsic angular momentum in the capillary filling dynamics of viscous fluids. <i>Journal of Colloid and Interface Science</i> , 2016, 479, 80-86.	9.4	1
150	Microscopic Characterization of IBM Star Polymers at High-Temperature for Water Membrane Applications. <i>Microscopy and Microanalysis</i> , 2018, 24, 1080-1081.	0.4	1
151	A Laboratory Workflow for Characterization of Scaling Deposits in Thermal Wells. <i>Energies</i> , 2020, 13, 3184.	3.1	1
152	Two-layer modeling of thermally induced Bénard convection in thin liquid films: Volume of fluid approach vs thin-film model. <i>AIP Advances</i> , 2021, 11, 045317.	1.3	1
153	Fabrication of Joule Heating Coating Layers via Flame Spraying for Membrane Distillation. <i>Surface Innovations</i> , 0, , 1-16.	2.3	1
154	Elimination of pharmaceutical contaminants fluoxetine and propranolol by an advanced plasma water treatment. , 0, 113, 346-353.		1
155	Synthesis, Characterization, and Typical Application of Nitrogen- ² Doped MoS ₂ Nanosheets Based on Pulsed Laser Ablation in Liquid Nitrogen. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, .	1.8	1
156	Electrified Pressure-Driven Instability in Thin Liquid Films. , 0, , .		0