

# Mohtada Sadrzadeh

## List of Publications by Citations

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148  
papers

4,695  
citations

38  
h-index

63  
g-index

159  
ext. papers

5,701  
ext. citations

7.3  
avg, IF

6.4  
L-index

#	Paper	IF	Citations
148	Sea water desalination using electrodialysis. <i>Desalination</i> , <b>2008</b> , 221, 440-447	10.3	198
147	Thermally stable polymers for advanced high-performance gas separation membranes. <i>Progress in Energy and Combustion Science</i> , <b>2018</b> , 66, 1-41	33.6	196
146	Rational design of phase inversion membranes by tailoring thermodynamics and kinetics of casting solution using polymer additives. <i>Journal of Membrane Science</i> , <b>2013</b> , 441, 31-44	9.6	195
145	A Novel Approach Toward Fabrication of High Performance Thin Film Composite Polyamide Membranes. <i>Scientific Reports</i> , <b>2016</b> , 6, 22069	4.9	186
144	Modeling of metal ion removal from wastewater by electrodialysis. <i>Separation and Purification Technology</i> , <b>2005</b> , 41, 73-82	8.3	164
143	Effect of preparation variables on morphology and pure water permeation flux through asymmetric cellulose acetate membranes. <i>Journal of Membrane Science</i> , <b>2009</b> , 326, 627-634	9.6	149
142	Effect of operating parameters on Pb <sup>2+</sup> separation from wastewater using electrodialysis. <i>Desalination</i> , <b>2004</b> , 167, 379-385	10.3	138
141	Superhydrophilic and underwater superoleophobic membranes - A review of synthesis methods. <i>Progress in Polymer Science</i> , <b>2019</b> , 98, 101166	29.6	127
140	Thin film composite polyamide membranes: parametric study on the influence of synthesis conditions. <i>RSC Advances</i> , <b>2015</b> , 5, 54985-54997	3.7	111
139	Surface modification methods of organic solvent nanofiltration membranes. <i>Chemical Engineering Journal</i> , <b>2016</b> , 289, 562-582	14.7	104
138	Robust fabrication of thin film polyamide-TiO nanocomposite membranes with enhanced thermal stability and anti-biofouling propensity. <i>Scientific Reports</i> , <b>2018</b> , 8, 784	4.9	96
137	Treatment of sea water using electrodialysis: Current efficiency evaluation. <i>Desalination</i> , <b>2009</b> , 249, 279-285	10.3	95
136	Separation of copper ions by electrodialysis using Taguchi experimental design. <i>Desalination</i> , <b>2004</b> , 169, 21-31	10.3	94
135	Separation of lead ions from wastewater using electrodialysis: Comparing mathematical and neural network modeling. <i>Chemical Engineering Journal</i> , <b>2008</b> , 144, 431-441	14.7	91
134	Fabrication of antifouling and antibacterial polyethersulfone (PES)/cellulose nanocrystals (CNC) nanocomposite membranes. <i>Journal of Membrane Science</i> , <b>2018</b> , 549, 350-356	9.6	84
133	Gas permeation through a synthesized composite PDMS/PES membrane. <i>Journal of Membrane Science</i> , <b>2009</b> , 342, 236-250	9.6	82
132	Recent advances in functionalized polymer membranes for biofouling control and mitigation in forward osmosis. <i>Journal of Membrane Science</i> , <b>2020</b> , 596, 117604	9.6	78

131	Development of advanced nanocomposite membranes using graphene nanoribbons and nanosheets for water treatment. <i>Journal of Membrane Science</i> , <b>2018</b> , 560, 97-107	9.6	77
130	Efficient dye removal from aqueous solution by high-performance electrospun nanofibrous membranes through incorporation of SiO <sub>2</sub> nanoparticles. <i>Journal of Cleaner Production</i> , <b>2018</b> , 183, 1197-1206	10.3	76
129	Effect of operating parameters on pure and mixed gas permeation properties of a synthesized composite PDMS/PA membrane. <i>Journal of Membrane Science</i> , <b>2009</b> , 342, 327-340	9.6	74
128	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> , <b>2017</b> , 535, 248-257	9.6	66
127	Neural network modeling of Pb <sup>2+</sup> removal from wastewater using electro dialysis. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2009</b> , 48, 1371-1381	3.7	66
126	Synthesis and characterization of polyethersulfone membranes. <i>Journal of Polymer Research</i> , <b>2010</b> , 17, 363-377	2.7	60
125	Separation of different ions from wastewater at various operating conditions using electro dialysis. <i>Separation and Purification Technology</i> , <b>2007</b> , 54, 147-156	8.3	57
124	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> , <b>2019</b> , 582, 402-413	9.6	55
123	Treatment of oil sands produced water using combined electrocoagulation and chemical coagulation techniques. <i>Science of the Total Environment</i> , <b>2018</b> , 645, 560-572	10.2	54
122	CO <sub>2</sub> and CH <sub>4</sub> permeation through T-type zeolite membranes: Effect of synthesis parameters and feed pressure. <i>Separation and Purification Technology</i> , <b>2008</b> , 61, 317-323	8.3	54
121	Developing high throughput thin film composite polyamide membranes for forward osmosis treatment of SAGD produced water. <i>Journal of Membrane Science</i> , <b>2016</b> , 511, 29-39	9.6	54
120	Synthesis of thin film composite polyamide membranes: Effect of monohydric and polyhydric alcohol additives in aqueous solution. <i>Journal of Membrane Science</i> , <b>2017</b> , 523, 336-345	9.6	48
119	Clay-based electrospun nanofibrous membranes for colored wastewater treatment. <i>Applied Clay Science</i> , <b>2019</b> , 168, 77-86	5.2	46
118	Portable Nanofiber-Light Addressable Potentiometric Sensor for Rapid Escherichia coli Detection in Orange Juice. <i>ACS Sensors</i> , <b>2018</b> , 3, 815-822	9.2	44
117	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> , <b>2015</b> , 141, 339-353	8.3	42
116	Carbon-based polymer nanocomposite membranes for oily wastewater treatment. <i>Npj Clean Water</i> , <b>2019</b> , 2,	11.2	41
115	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> , <b>2020</b> , 611, 118352	9.6	41
114	Ternary gas permeation through a synthesized PDMS membrane: Experimental and modeling. <i>Journal of Membrane Science</i> , <b>2009</b> , 344, 225-236	9.6	41

113	Thermally stable thin film composite polymeric membranes for water treatment: A review. <i>Journal of Cleaner Production</i> , <b>2020</b> , 250, 119447	10.3	40
112	C3H8 separation from CH4 and H2 using a synthesized PDMS membrane: Experimental and neural network modeling. <i>Journal of Membrane Science</i> , <b>2010</b> , 346, 59-70	9.6	38
111	Mathematical modeling of desalination by electrodialysis. <i>Desalination</i> , <b>2007</b> , 206, 538-546	10.3	38
110	Separation of monovalent, divalent and trivalent ions from wastewater at various operating conditions using electrodialysis. <i>Desalination</i> , <b>2007</b> , 205, 53-61	10.3	35
109	Effect of synthesis parameters on single gas permeation through T-type zeolite membranes. <i>International Journal of Greenhouse Gas Control</i> , <b>2008</b> , 2, 531-538	4.2	35
108	Mathematical modeling of mass transfer in multicomponent gas mixture across the synthesized composite polymeric membrane. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2013</b> , 19, 870-885	6.3	34
107	Modeling of unsteady-state permeation of gas mixture through a self-synthesized PDMS membranes. <i>Separation and Purification Technology</i> , <b>2011</b> , 76, 385-399	8.3	34
106	Thermally resistant and electrically conductive PES/ITO nanocomposite membrane. <i>Journal of Membrane Science</i> , <b>2016</b> , 500, 151-160	9.6	32
105	Preparation and characterization of a composite PDMS membrane on CA support. <i>Polymers for Advanced Technologies</i> , <b>2009</b> , 21, n/a-n/a	3.2	32
104	In Situ Ag-MOF Growth on Pre-Grafted Zwitterions Imparts Outstanding Antifouling Properties to Forward Osmosis Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 36287-36300	9.5	32
103	Effect of operating parameters on concentration of citric acid using electrodialysis. <i>Journal of Food Engineering</i> , <b>2007</b> , 83, 596-604	6	30
102	Mathematical modeling of flux decline in ultrafiltration. <i>Desalination</i> , <b>2005</b> , 184, 367-375	10.3	30
101	Development of underwater superoleophobic polyamide-imide (PAI) microfiltration membranes for oil/water emulsion separation. <i>Separation and Purification Technology</i> , <b>2020</b> , 238, 116451	8.3	30
100	Novel nanocomposite polyethersulfone- antimony tin oxide membrane with enhanced thermal, electrical and antifouling properties. <i>Polymer</i> , <b>2019</b> , 163, 48-56	3.9	30
99	Treatment of an in situ oil sands produced water by polymeric membranes. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 14869-14887		29
98	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> , <b>2020</b> , 711, 134951	10.2	29
97	Toward Sustainable Tackling of Biofouling Implications and Improved Performance of TFC FO Membranes Modified by Ag-MOF Nanorods. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 38285-38298	9.5	29
96	Surface grafting of FAU/EMT zeolite with (3-aminopropyl)methyldiethoxysilane optimized using Taguchi experimental design. <i>Chemical Engineering Research and Design</i> , <b>2012</b> , 90, 1313-1321	5.5	28

95	Coupling a mathematical and a fuzzy logic-based model for prediction of zinc ions separation from wastewater using electrodialysis. <i>Chemical Engineering Journal</i> , <b>2009</b> , 151, 262-274	14.7	28
94	Microfiltration of oily wastewater using PP hydrophobic membrane. <i>Desalination</i> , <b>2006</b> , 200, 319-321	10.3	28
93	Methods for the Preparation of Organic/Inorganic Nanocomposite Polymer Electrolyte Membranes for Fuel Cells <b>2017</b> , 311-325		27
92	Characterization of Boiler Blowdown Water from Steam-Assisted Gravity Drainage and Silica/Organic Coprecipitation during Acidification and Ultrafiltration. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 5604-5612	4.1	27
91	Fabrication of Highly Permeable and Thermally Stable Reverse Osmosis Thin Film Composite Polyamide Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2916-2925	9.5	25
90	Industrial waste lignin as an antifouling coating for the treatment of oily wastewater: Creating wealth from waste. <i>Journal of Cleaner Production</i> , <b>2020</b> , 256, 120304	10.3	25
89	Pure and mixed gas permeation through a composite polydimethylsiloxane membrane. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 586-597	3.2	24
88	Substantially improved antifouling properties in electro-oxidative graphene laminate forward osmosis membrane. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 141, 413-424	5.5	24
87	New insights into the impact of nanoscale surface heterogeneity on the wettability of polymeric membranes. <i>Journal of Membrane Science</i> , <b>2019</b> , 590, 117270	9.6	23
86	Analytical solution for transient electroosmotic flow in a rotating microchannel. <i>RSC Advances</i> , <b>2016</b> , 6, 17632-17641	3.7	21
85	Efficient treatment of oil sands produced water: Process integration using ion exchange regeneration wastewater as a chemical coagulant. <i>Separation and Purification Technology</i> , <b>2019</b> , 221, 166-174	8.3	18
84	Colloidal fouling of nanofiltration membranes: A novel transient electrokinetic model and experimental study. <i>Chemical Engineering Science</i> , <b>2015</b> , 138, 153-163	4.4	18
83	Robust Polymer Nanocomposite Membranes Incorporating Discrete TiO Nanotubes for Water Treatment. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	18
82	Improvement in gas separation properties of a polymeric membrane through the incorporation of inorganic nano-particles. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 1101-1111	3.2	17
81	Characterization and Comparison of Dissolved Organic Matter Signatures in Steam-Assisted Gravity Drainage Process Water Samples from Athabasca Oil Sands. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 8363-8373	4.1	16
80	Preparation and C <sub>3</sub> H <sub>8</sub> /Gas Separation Properties of a Synthesized Single Layer PDMS Membrane. <i>Separation Science and Technology</i> , <b>2010</b> , 45, 592-603	2.5	16
79	Nanodiamond-Enabled Thin-Film Nanocomposite Polyamide Membranes for High-Temperature Water Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 53274-53285	9.5	16
78	Nonlinear deformation and localized failure of bacterial streamers in creeping flows. <i>Scientific Reports</i> , <b>2016</b> , 6, 32204	4.9	16

77	Development of antifouling membranes using agro-industrial waste lignin for the treatment of Canada's oil sands produced water. <i>Journal of Membrane Science</i> , <b>2020</b> , 611, 118326	9.6	15
76	Nickel-Based Metal-Organic Frameworks to Improve the CO <sub>2</sub> /CH <sub>4</sub> Separation Capability of Thin-Film Pebax Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 12834-12844	3.9	15
75	Compact micro/nano electrohydrodynamic patterning: using a thin conductive film and a patterned template. <i>Soft Matter</i> , <b>2016</b> , 12, 1074-84	3.6	15
74	Fundamentals and Measurement Techniques for Gas Transport in Polymers <b>2018</b> , 391-423		15
73	Electrohydrodynamic patterning of ultra-thin ionic liquid films. <i>Soft Matter</i> , <b>2015</b> , 11, 2193-202	3.6	15
72	Graphene-based electro-conductive anti-fouling membranes for the treatment of oil sands produced water. <i>Science of the Total Environment</i> , <b>2020</b> , 704, 135365	10.2	15
71	Thermo-Electrohydrodynamic Patterning in Nanofilms. <i>Langmuir</i> , <b>2016</b> , 32, 5776-86	4	15
70	Removal of trace organic contaminants by melamine-tuned highly cross-linked polyamide TFC membranes. <i>Chemosphere</i> , <b>2020</b> , 238, 124691	8.4	15
69	Forward osmosis for treatment of oil sands produced water: systematic study of influential parameters. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 22980-22993		14
68	Investigating fouling at the pore-scale using a microfluidic membrane mimic filtration system. <i>Scientific Reports</i> , <b>2019</b> , 9, 10587	4.9	14
67	Colloidal Fouling of Nanofiltration Membranes: Development of a Standard Operating Procedure. <i>Membranes</i> , <b>2017</b> , 7,	3.8	14
66	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> , <b>2010</b> , 360, 509-521	9.6	14
65	Gravity assisted super high flux microfiltration polyamide-imide membranes for oil/water emulsion separation. <i>Journal of Membrane Science</i> , <b>2021</b> , 621, 119019	9.6	14
64	Overview of membrane technology <b>2020</b> , 1-28		13
63	Dielectric behavior of oil/water emulsions during phase separation probed by electrical impedance spectroscopy. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 243, 460-464	8.5	13
62	Thermally stable core-shell star-shaped block copolymers for antifouling enhancement of water purification membranes. <i>Journal of Membrane Science</i> , <b>2020</b> , 598, 117686	9.6	13
61	Effective strategy for UV-mediated grafting of biocidal Ag-MOFs on polymeric membranes aimed at enhanced water ultrafiltration. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 130704	14.7	13
60	Abiotic streamers in a microfluidic system. <i>Soft Matter</i> , <b>2017</b> , 13, 8698-8705	3.6	12

59	Separation via Pervaporation Techniques Through Polymeric Membranes <b>2018</b> , 243-263		12
58	Synthesis and gas permeation properties of a single layer PDMS membrane. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 117, NA-NA	2.9	12
57	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> , <b>2018</b> , 40, 1003-1013	8.9	11
56	Aggregation and deposition of colloidal particles: Effect of surface properties of collector beads. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 530, 46-52	5.1	11
55	Hydrogen Separation by Natural Zeolite Composite Membranes: Single and Multicomponent Gas Transport. <i>Materials</i> , <b>2017</b> , 10,	3.5	11
54	Direct Micropatterning of Phase Separation Membranes Using Hydrogel Soft Lithography. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800384	6.8	10
53	Integrated Coagulation-Membrane Processes with Zero Liquid Discharge (ZLD) Configuration for the Treatment of Oil Sands Produced Water. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1348	3	10
52	Green Electrospun Membranes Based on Chitosan/Amino-Functionalized Nanoclay Composite Fibers for Cationic Dye Removal: Synthesis and Kinetic Studies. <i>ACS Omega</i> , <b>2021</b> , 6, 10816-10827	3.9	10
51	Prediction of surface charge properties on the basis of contact angle titration models. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 258, 123933	4.4	10
50	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> , <b>2021</b> , 640, 119755	9.6	10
49	An Unpowered Sensor Node for Real-Time Water Quality Assessment (Humic Acid Detection). <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 231	2.6	9
48	Impact of bacterial streamers on biofouling of microfluidic filtration systems. <i>Biomicrofluidics</i> , <b>2018</b> , 12, 044116	3.2	8
47	Modeling of Air-Gap Membrane Distillation and Comparative Study with Direct Contact Membrane Distillation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 21930-21947	3.9	8
46	Enhanced Electrically Induced Micropatterning of Confined Thin Liquid Films: Thermocapillary Role and Its Limitations. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 10678-10688	3.9	7
45	Thermally induced interfacial instabilities and pattern formation in confined liquid nanofilms. <i>Physical Review E</i> , <b>2018</b> , 98,	2.4	7
44	Microfluidic Mimic for Colloid Membrane Filtration: A Review. <i>Journal of the Indian Institute of Science</i> , <b>2018</b> , 98, 137-157	2.4	7
43	A numerical study for thermocapillary induced patterning of thin liquid films. <i>Physics of Fluids</i> , <b>2020</b> , 32, 024106	4.4	6
42	Ordered high aspect ratio nanopillar formation based on electrical and thermal reflowing of prepatterned thin films. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 530, 312-320	9.3	6



41	New insights into the prediction of adaptive wetting of a solid surface under a liquid medium. <i>Applied Surface Science</i> , <b>2020</b> , 532, 147444	6.7	6
40	Development of layer-by-layer assembled polyamide-imide membranes for oil sands produced water treatment. <i>Scientific Reports</i> , <b>2021</b> , 11, 8098	4.9	6
39	Osmotic dewatering accelerates inherent sluggish kinetics of electro-Fenton process: Toward sustainable removal of organic contaminants. <i>Chemical Engineering Journal</i> , <b>2020</b> , 394, 125043	14.7	6
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> , <b>2021</b> , 102524	14.3	6
37	New Insights into the Role of the Surrounding Medium Temperature in the Under-Liquid Wetting of Solid Surfaces. <i>Langmuir</i> , <b>2020</b> , 36, 8301-8310	4	5
36	Near wall void growth leads to disintegration of colloidal bacterial streamer. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 522, 249-255	9.3	5
35	Electrohydrodynamic Patterning of Polyethersulfone Membranes. <i>Langmuir</i> , <b>2019</b> , 35, 12139-12149	4	5
34	Numerical Investigation of the Entropy Generation Due to Natural Convection in a Partially Heated Square Cavity Filled With Nanofluids. <i>Heat Transfer Engineering</i> , <b>2017</b> , 38, 1506-1521	1.7	5
33	Effect of Operating Conditions on PV Performance of PVA Membranes: Experimental and Neural Network Modeling. <i>Separation Science and Technology</i> , <b>2012</b> , 47, 1472-1484	2.5	5
32	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> , <b>2020</b> , 588, 124332	5.1	5
31	Analysis of streaming potential flow and electroviscous effect in a shear-driven charged slit microchannel. <i>Scientific Reports</i> , <b>2020</b> , 10, 18317	4.9	5
30	An experimental and numerical study of droplet spreading and imbibition on microporous membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 615, 126191	5.1	5
29	Development of a self-sustained model to predict the performance of direct contact membrane distillation. <i>Separation and Purification Technology</i> , <b>2021</b> , 263, 118407	8.3	5
28	Deep learning-based energy management of a hybrid photovoltaic-reverse osmosis-pressure retarded osmosis system. <i>Applied Energy</i> , <b>2021</b> , 293, 116959	10.7	5
27	Nanodiamond-decorated thin film composite membranes with antifouling and antibacterial properties. <i>Desalination</i> , <b>2022</b> , 522, 115436	10.3	4
26	Unplugging Standalone Sand Control Screens with High-power Shock Waves: An Experimental Study <b>2020</b> ,		3
25	Durability and Recoverability of Soft Lithographically Patterned Hydrogel Molds for the Formation of Phase Separation Membranes. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	3
24	Micropatterned Thin-Film Composite Poly(piperazine-amide) Nanofiltration Membranes for Wastewater Treatment. <i>ACS Applied Polymer Materials</i> ,	4.3	3



23	Degradation of pharmaceutical contaminants in water by an advanced plasma treatment	139, 202-221	3
22	Prospects of nanocomposite membranes for water treatment by osmotic-driven membrane processes	2020, 257-297	3
21	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	3
20	Novel Lignin-Modified Forward Osmosis Membranes: Waste Materials for Wastewater Treatment.	<i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15768-15779	8.3 2
19	Microfluidic Membrane Filtration Systems to Study Biofouling	2018,	2
18	A Laboratory Workflow for Characterization of Scaling Deposits in Thermal Wells.	<i>Energies</i> , 2020, 13, 3184	3.1 1
17	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	9.3 1
16	Experimental Study on the Palatability Impacts of Potable Water as a Hydronic Medium.	<i>Water (Switzerland)</i> , 2018, 10, 218	3 1
15	Microscopic Characterization of IBM Star Polymers at High-Temperature for Water Membrane Applications.	<i>Microscopy and Microanalysis</i> , 2018, 24, 1080-1081	0.5 1
14	Functionalized Polyamide Membranes Yield Suppression of Biofilm and Planktonic Bacteria while Retaining Flux and Selectivity.	<i>Separation and Purification Technology</i> , 2021, 282, 119981	8.3 1
13	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	1.5 1
12	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	5.1 1
11	Development of nanocomposite membranes by biomimicking nanomaterials	2020, 219-236	1
10	Prospects of nanocomposite membranes for water treatment by membrane distillation	2020, 299-320	1
9	Effect of Internal and External Concentration Polarizations on the Performance of Forward Osmosis Process	2018,	1
8	Poly (methyl methacrylate) grafted wheat straw for economical and eco-friendly treatment of oily wastewater.	<i>Cellulose</i> , 2022, 29, 3351	5.5 1
7	Synergistic effect of thermal dehydrating on the emerging contaminants removal via Electro-Fenton.	<i>Journal of Cleaner Production</i> , 2022, 356, 131880	10.3 1
6	Novel data-driven energy management of a hybrid photovoltaic-reverse osmosis desalination system using deep reinforcement learning.	<i>Applied Energy</i> , 2022, 317, 119184	10.7 1

5	Synthesis, Characterization, and Typical Application of Nitrogen-Doped MoS <sub>2</sub> Nanosheets Based on Pulsed Laser Ablation in Liquid Nitrogen. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2100677	1.6	1
4	Fabrication of Joule Heating Coating Layers via Flame Spraying for Membrane Distillation. <i>Surface Innovations</i> , 1-16	1.9	0
3	Engineered graphene-based mixed matrix membranes to boost CO <sub>2</sub> separation performance: Latest developments and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 160, 112294	16.2	0
2	Thermocapillary patterning of non-Newtonian thin films. <i>Physics of Fluids</i> , <b>2022</b> , 34, 054110	4.4	0
1	Loose nanofiltration membranes functionalized with in situ-synthesized metal organic framework for water treatment. <i>Materials Today Chemistry</i> , <b>2022</b> , 24, 100909	6.2	