

Matthias Wessling

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6163831/publications.pdf>

Version: 2024-02-01

596
papers

30,446
citations

4658

85
h-index

10445

139
g-index

608
all docs

608
docs citations

608
times ranked

21717
citing authors

#	ARTICLE	IF	CITATIONS
1	Anion exchange membranes for alkaline fuel cells: A review. Journal of Membrane Science, 2011, 377, 1-35.	8.2	1,486
2	Selectivity of ion exchange membranes: A review. Journal of Membrane Science, 2018, 555, 429-454.	8.2	722
3	CO ₂ -induced plasticization phenomena in glassy polymers. Journal of Membrane Science, 1999, 155, 67-78.	8.2	464
4	Current status of ion exchange membranes for power generation from salinity gradients. Journal of Membrane Science, 2008, 319, 214-222.	8.2	451
5	Membranes and microfluidics: a review. Lab on A Chip, 2006, 6, 1125.	6.0	414
6	Medical applications of membranes: Drug delivery, artificial organs and tissue engineering. Journal of Membrane Science, 2008, 308, 1-34.	8.2	401
7	An algorithm-based topographical biomaterials library to instruct cell fate. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16565-16570.	7.1	355
8	Practical Potential of Reverse Electrodialysis As Process for Sustainable Energy Generation. Environmental Science & Technology, 2009, 43, 6888-6894.	10.0	308
9	On the resistances of membrane, diffusion boundary layer and double layer in ion exchange membrane transport. Journal of Membrane Science, 2010, 349, 369-379.	8.2	296
10	Concentration polarization with monopolar ion exchange membranes: current-voltage curves and water dissociation. Journal of Membrane Science, 1999, 162, 145-154.	8.2	290
11	Transport limitations in ion exchange membranes at low salt concentrations. Journal of Membrane Science, 2010, 346, 163-171.	8.2	283
12	Flue gas dehydration using polymer membranes. Journal of Membrane Science, 2008, 313, 263-276.	8.2	279
13	Plasticization-resistant glassy polyimide membranes for CO ₂ /CO ₄ separations. Separation and Purification Technology, 1998, 14, 27-39.	7.9	271
14	Direct Observation of a Nonequilibrium Electro-Osmotic Instability. Physical Review Letters, 2008, 101, 236101.	7.8	260
15	Poly(ethylene glycol) and poly(dimethyl siloxane): Combining their advantages into efficient CO ₂ gas separation membranes. Journal of Membrane Science, 2010, 352, 126-135.	8.2	247
16	Transforming biogas into biomethane using membrane technology. Renewable and Sustainable Energy Reviews, 2013, 17, 199-212.	16.4	225
17	Anion-exchange membranes containing diamines: preparation and stability in alkaline solution. Journal of Membrane Science, 2004, 244, 25-34.	8.2	220
18	Transport of water vapor and inert gas mixtures through highly selective and highly permeable polymer membranes. Journal of Membrane Science, 2005, 251, 29-41.	8.2	218

#	ARTICLE	IF	CITATIONS
19	Layer-by-Layer Modification of Cation Exchange Membranes Controls Ion Selectivity and Water Splitting. ACS Applied Materials & Interfaces, 2014, 6, 1843-1854.	8.0	207
20	Membrane processes in biorefinery applications. Journal of Membrane Science, 2013, 444, 285-317.	8.2	198
21	Bioactive Gyroid Scaffolds Formed by Sacrificial Templating of Nanocellulose and Nanochitin Hydrogels as Instructive Platforms for Biomimetic Tissue Engineering. Advanced Materials, 2015, 27, 2989-2995.	21.0	195
22	Evaporation-Triggered Wetting Transition for Water Droplets upon Hydrophobic Microstructures. Physical Review Letters, 2010, 104, 116102.	7.8	187
23	Microcellular Foaming of Amorphous High-Tg Polymers Using Carbon Dioxide. Macromolecules, 2001, 34, 874-884.	4.8	181
24	Chronopotentiometry and overlimiting ion transport through monopolar ion exchange membranes. Journal of Membrane Science, 1999, 162, 155-164.	8.2	178
25	Morphology and Microtopology of Cation-Exchange Polymers and the Origin of the Overlimiting Current. Journal of Physical Chemistry B, 2007, 111, 2152-2165.	2.6	174
26	Ion conductive spacers for increased power generation in reverse electrodialysis. Journal of Membrane Science, 2010, 347, 101-107.	8.2	174
27	Open Nanoporous Morphologies from Polymeric Blends by Carbon Dioxide Foaming. Macromolecules, 2002, 35, 1738-1745.	4.8	171
28	Bicontinuous Nanoporous Polymers by Carbon Dioxide Foaming. Macromolecules, 2001, 34, 8792-8801.	4.8	169
29	Materials dependence of mixed gas plasticization behavior in asymmetric membranes. Journal of Membrane Science, 2007, 306, 16-28.	8.2	166
30	Ultralow-k Dielectrics Made by Supercritical Foaming of Thin Polymer Films. Advanced Materials, 2002, 14, 1041.	21.0	164
31	Quantifying effective slip length over micropatterned hydrophobic surfaces. Physics of Fluids, 2009, 21, .	4.0	162
32	Beyond the catalyst: How electrode and reactor design determine the product spectrum during electrochemical CO ₂ reduction. Chemical Engineering Journal, 2019, 364, 89-101.	12.7	160
33	Suppression of gas separation membrane plasticization by homogeneous polymer blending. AIChE Journal, 2001, 47, 1088-1093.	3.6	159
34	Plasticization of gas separation membranes. Separation and Purification Technology, 1991, 5, 222-228.	0.3	156
35	Gas-Permeation Properties of Poly(ethylene oxide) Poly(butylene terephthalate) Block Copolymers. Macromolecules, 2004, 37, 4590-4597.	4.8	154
36	Effect of PDMS cross-linking degree on the permeation performance of PAN/PDMS composite nanofiltration membranes. Separation and Purification Technology, 2005, 45, 220-231.	7.9	150

#	ARTICLE	IF	CITATIONS
37	Spontaneous Breakdown of Superhydrophobicity. <i>Physical Review Letters</i> , 2007, 99, 156001.	7.8	142
38	Preparation and characterisation of monovalent ion selective cation exchange membranes based on sulphonated poly(ether ether ketone). <i>Journal of Membrane Science</i> , 2005, 263, 137-145.	8.2	140
39	On the subtle balance between competitive sorption and plasticization effects in asymmetric hollow fiber gas separation membranes. <i>Journal of Membrane Science</i> , 2005, 252, 265-277.	8.2	138
40	One-step fabrication of porous micropatterned scaffolds to control cell behavior. <i>Biomaterials</i> , 2007, 28, 1998-2009.	11.4	138
41	Batch mode and continuous desalination of water using flowing carbon deionization (FCDI) technology. <i>Electrochemistry Communications</i> , 2014, 46, 152-156.	4.7	137
42	Porous poly(benzimidazole) membrane for all vanadium redox flow battery. <i>Journal of Power Sources</i> , 2016, 312, 45-54.	7.8	135
43	Cation permeable membranes from blends of sulfonated poly(ether ether ketone) and poly(ether) Tj ETQq1 1 0.784314 rgBT /Overload	8.2	133
44	An improved flux-step method to determine the critical flux and the critical flux for irreversibility in a membrane bioreactor. <i>Journal of Membrane Science</i> , 2009, 332, 24-29.	8.2	133
45	Influence of membrane properties on fouling in submerged membrane bioreactors. <i>Journal of Membrane Science</i> , 2010, 348, 66-74.	8.2	133
46	Galvanic deposition of Rh and Ru on randomly structured Ti felts for the electrochemical NH ₃ synthesis. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3768-3782.	2.8	131
47	In situ ellipsometry studies on swelling of thin polymer films: A review. <i>Progress in Polymer Science</i> , 2015, 42, 42-78.	24.7	127
48	Coupled transport phenomena in overlimiting current electrodialysis. <i>Separation and Purification Technology</i> , 1998, 14, 255-267.	7.9	125
49	Gas-liquid membrane contactors for CO ₂ removal. <i>Journal of Membrane Science</i> , 2009, 340, 214-220.	8.2	124
50	Effect of pH on the performance of polyamide/polyacrylonitrile based thin film composite membranes. <i>Journal of Membrane Science</i> , 2011, 372, 228-238.	8.2	124
51	Mixed matrix hollow fiber membranes for removal of protein-bound toxins from human plasma. <i>Biomaterials</i> , 2013, 34, 7819-7828.	11.4	124
52	Print your own membrane: direct rapid prototyping of polydimethylsiloxane. <i>Lab on A Chip</i> , 2014, 14, 2610.	6.0	124
53	Preparation of composite hollow fiber membranes: co-extrusion of hydrophilic coatings onto porous hydrophobic support structures. <i>Journal of Membrane Science</i> , 2002, 207, 143-156.	8.2	123
54	Insight into the transport of hexane-solute systems through tailor-made composite membranes. <i>Journal of Membrane Science</i> , 2004, 228, 103-116.	8.2	123

#	ARTICLE	IF	CITATIONS
55	Ultra-High Proton/ Vanadium Selectivity for Hydrophobic Polymer Membranes with Intrinsic Nanopores for Redox Flow Battery. <i>Advanced Energy Materials</i> , 2016, 6, 1600517.	19.5	123
56	On the Dynamical Regimes of Pattern-Accelerated Electroconvection. <i>Scientific Reports</i> , 2016, 6, 22505.	3.3	120
57	Mixed water vapor/gas transport through the rubbery polymer PEBAX® 1074. <i>Journal of Membrane Science</i> , 2009, 338, 11-16.	8.2	119
58	Suppression of CO ₂ -plasticization by semi-interpenetrating polymer network formation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 1547-1556.	2.1	118
59	Phase Separation Micromolding of PS ^{1/4} M. <i>Advanced Materials</i> , 2003, 15, 1385-1389.	21.0	118
60	Intermediate polymer to carbon gas separation membranes based on Matrimid PI. <i>Journal of Membrane Science</i> , 2004, 238, 93-102.	8.2	118
61	Phase Separation Micromolding: A New Generic Approach for Microstructuring Various Materials. <i>Small</i> , 2005, 1, 645-655.	10.0	118
62	Single module flow-electrode capacitive deionization for continuous water desalination. <i>Electrochemistry Communications</i> , 2015, 60, 34-37.	4.7	117
63	Electrochemical depolymerisation of lignin in a deep eutectic solvent. <i>Green Chemistry</i> , 2016, 18, 6021-6028.	9.0	116
64	Preparation and characterization of nanofiltration membranes by coating polyethersulfone hollow fibers with sulfonated poly(ether ether ketone) (SPEEK). <i>Journal of Membrane Science</i> , 2008, 307, 62-72.	8.2	115
65	Role of membrane surface in concentration polarization at cation exchange membranes. <i>Journal of Membrane Science</i> , 2004, 239, 119-128.	8.2	112
66	Multi-layer spacer geometries with improved mass transport. <i>Journal of Membrane Science</i> , 2006, 282, 351-361.	8.2	110
67	A novel approach for blood purification: Mixed-matrix membranes combining diffusion and adsorption in one step. <i>Acta Biomaterialia</i> , 2012, 8, 2279-2287.	8.3	108
68	Temperature-Modulated Water Filtration Using Microgel-Functionalized Hollow-Fiber Membranes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5706-5710.	13.8	106
69	Nutrient removal by NF and RO membranes in a decentralized sanitation system. <i>Water Research</i> , 2005, 39, 3657-3667.	11.3	104
70	Preparation of mixed matrix adsorber membranes for protein recovery. <i>Journal of Membrane Science</i> , 2003, 218, 219-233.	8.2	103
71	Estimation of the structure dependent performance of 3-D rapid prototyped membranes. <i>Chemical Engineering Journal</i> , 2015, 273, 438-445.	12.7	102
72	Accelerated plasticization of thin-film composite membranes used in gas separation. <i>Separation and Purification Technology</i> , 2001, 24, 223-233.	7.9	101

#	ARTICLE	IF	CITATIONS
73	New cross-linked PVA based polymer electrolyte membranes for alkaline fuel cells. Journal of Membrane Science, 2012, 409-410, 191-199.	8.2	101
74	High-Throughput Generation of Emulsions and Microgels in Parallelized Microfluidic Drop-Makers Prepared by Rapid Prototyping. ACS Applied Materials & Interfaces, 2015, 7, 12635-12638.	8.0	99
75	Thermoforming of Film-Based Biomedical Microdevices. Advanced Materials, 2011, 23, 1311-1329.	21.0	98
76	Hollow fiber dead-end ultrafiltration: Influence of ionic environment on filtration of alginates. Journal of Membrane Science, 2008, 308, 218-229.	8.2	97
77	Development and analysis of multi-layer scaffolds for tissue engineering. Biomaterials, 2009, 30, 6228-6239.	11.4	97
78	Pushing the limits of block copolymer membranes for CO2 separation. Journal of Membrane Science, 2011, 378, 479-484.	8.2	97
79	On the effects of plasticization in CO2/light gas separation using polymeric solubility selective membranes. Journal of Membrane Science, 2011, 367, 33-44.	8.2	97
80	Tubular carbon nanotube-based gas diffusion electrode removes persistent organic pollutants by a cyclic adsorption " Electro-Fenton process. Journal of Hazardous Materials, 2016, 307, 1-6.	12.4	97
81	Solar driven membrane pervaporation for desalination processes. Journal of Membrane Science, 2005, 250, 235-246.	8.2	96
82	Challenges and advances in the field of self-assembled membranes. Chemical Society Reviews, 2013, 42, 6578.	38.1	96
83	Preparation and characterization of highly selective dense and hollow fiber asymmetric membranes based on BTDA-TDI/MDI co-polyimide. Journal of Membrane Science, 2003, 216, 195-205.	8.2	95
84	High permeable PTMSP/PAN composite membranes for solvent nanofiltration. Journal of Membrane Science, 2009, 333, 88-93.	8.2	95
85	Insights into the role of material surface topography and wettability on cell-material interactions. Soft Matter, 2010, 6, 4377.	2.7	90
86	Print your membrane: Rapid prototyping of complex 3D-PDMS membranes via a sacrificial resist. Journal of Membrane Science, 2015, 478, 12-18.	8.2	90
87	In situ product recovery: Submerged membranes vs. external loop membranes. Journal of Membrane Science, 2012, 394-395, 1-36.	8.2	89
88	High capacity polyethylenimine impregnated microtubes made of carbon nanotubes for CO2 capture. Carbon, 2018, 126, 338-345.	10.3	89
89	Techno-economic Analysis of Hybrid Processes for Biogas Upgrading. Industrial & Engineering Chemistry Research, 2013, 52, 16929-16938.	3.7	85
90	Structural optimization of membrane-based biogas upgrading processes. Journal of Membrane Science, 2015, 474, 1-10.	8.2	85

#	ARTICLE	IF	CITATIONS
91	Superhydrophobic Surfaces Having Two-Fold Adjustable Roughness Prepared in a Single Step. <i>Langmuir</i> , 2006, 22, 3125-3130.	3.5	84
92	Membrane with integrated spacer. <i>Journal of Membrane Science</i> , 2010, 360, 185-189.	8.2	84
93	Supported liquid membranes modification with sulphonated poly(ether ether ketone). <i>Journal of Membrane Science</i> , 1998, 147, 117-130.	8.2	83
94	Highly hydrophilic, rubbery membranes for CO ₂ capture and dehydration of flue gas. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 26-36.	4.6	83
95	Optimisation strategies for the preparation of bipolar membranes with reduced salt ion leakage in acid-base electrodialysis. <i>Journal of Membrane Science</i> , 2001, 182, 13-28.	8.2	81
96	Cassie-Baxter to Wenzel state wetting transition: Scaling of the front velocity. <i>European Physical Journal E</i> , 2009, 29, 391-397.	1.6	81
97	Energy Recovery and Process Design in Continuous Flow Electrode Capacitive Deionization Processes. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13007-13015.	6.7	81
98	How do polymerized room-temperature ionic liquid membranes plasticize during high pressure CO ₂ permeation?. <i>Journal of Membrane Science</i> , 2010, 360, 202-209.	8.2	79
99	Sulfonated poly(ether ether ketone) based composite membranes for nanofiltration of acidic and alkaline media. <i>Journal of Membrane Science</i> , 2011, 381, 81-89.	8.2	79
100	Free energy calculations of small molecules in dense amorphous polymers. Effect of the initial guess configuration in molecular dynamics studies. <i>Journal of Chemical Physics</i> , 1996, 105, 8849-8857.	3.0	78
101	Polymeric microsieves produced by phase separation micromolding. <i>Journal of Membrane Science</i> , 2006, 283, 411-424.	8.2	78
102	CO ₂ permeation properties of poly(ethylene oxide)-based segmented block copolymers. <i>Journal of Membrane Science</i> , 2010, 346, 194-201.	8.2	78
103	Microstructured hollow fibers for ultrafiltration. <i>Journal of Membrane Science</i> , 2010, 347, 32-41.	8.2	78
104	Mixed-matrix membrane adsorbers for protein separation. <i>Journal of Chromatography A</i> , 2003, 1006, 171-183.	3.7	77
105	Mixed gas water vapor/N transport in poly(ethylene oxide) poly(butylene terephthalate) block copolymers. <i>Journal of Membrane Science</i> , 2005, 266, 51-61.	8.2	76
106	Gas foaming of segmented poly(ester amide) films. <i>Polymer</i> , 2005, 46, 9396-9403.	3.8	76
107	When Do Sorption-Induced Relaxations in Glassy Polymers Set In?. <i>Macromolecules</i> , 2007, 40, 4992-5000.	4.8	76
108	Hybrid membrane with TiO ₂ based bio-catalytic nanoparticle suspension system for the degradation of bisphenol-A. <i>Bioresource Technology</i> , 2014, 169, 475-483.	9.6	73

#	ARTICLE	IF	CITATIONS
109	Kinetics of CO ₂ Absorption in Aqueous Sarcosine Salt Solutions: Influence of Concentration, Temperature, and CO ₂ Loading. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 9693-9702.	3.7	72
110	Chronopotentiometry for the advanced current-voltage characterisation of bipolar membranes. <i>Journal of Electroanalytical Chemistry</i> , 2001, 502, 152-166.	3.8	71
111	Porous stainless steel hollow fiber membranes via dry-wet spinning. <i>Journal of Membrane Science</i> , 2011, 370, 124-130.	8.2	71
112	Unraveling charge transport in carbon flow-electrodes: Performance prediction for desalination applications. <i>Carbon</i> , 2019, 145, 507-520.	10.3	71
113	Early-stage evaluation of emerging CO ₂ utilization technologies at low technology readiness levels. <i>Green Chemistry</i> , 2020, 22, 3842-3859.	9.0	71
114	Carbon molecular sieve membranes prepared from porous fiber precursor. <i>Journal of Membrane Science</i> , 2002, 205, 239-246.	8.2	70
115	CO ₂ Plasticization of polyethersulfone/polyimide gas-separation membranes. <i>AIChE Journal</i> , 2003, 49, 1702-1711.	3.6	70
116	Towards single step production of multi-layer inorganic hollow fibers. <i>Journal of Membrane Science</i> , 2004, 239, 265-269.	8.2	70
117	The development of electro-membrane filtration for the isolation of bioactive peptides: the effect of membrane selection and operating parameters on the transport rate. <i>Desalination</i> , 2002, 149, 369-374.	8.2	69
118	Electro-catalytic membrane reactors and the development of bipolar membrane technology. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004, 43, 1115-1127.	3.6	69
119	Fouling mitigation in tubular membranes by 3D-printed turbulence promoters. <i>Journal of Membrane Science</i> , 2018, 554, 156-163.	8.2	68
120	The electrolyte matters: Stable systems for high rate electrochemical CO ₂ reduction. <i>Journal of CO₂ Utilization</i> , 2019, 32, 202-213.	6.8	68
121	Regenerable polymer/ceramic hybrid nanofiltration membrane based on polyelectrolyte assembly by layer-by-layer technique. <i>Journal of Membrane Science</i> , 2016, 520, 924-932.	8.2	67
122	Precise tuning of salt retention of backwashable polyelectrolyte multilayer hollow fiber nanofiltration membranes. <i>Journal of Membrane Science</i> , 2016, 499, 396-405.	8.2	67
123	Functionalized Carbon Molecular Sieve membranes containing Ag-nanoclusters. <i>Journal of Membrane Science</i> , 2003, 219, 47-57.	8.2	66
124	Enzyme capturing and concentration with mixed matrix membrane adsorbers. <i>Journal of Membrane Science</i> , 2006, 280, 406-417.	8.2	66
125	Tuning of mass transport properties of multi-block copolymers for CO ₂ capture applications. <i>Journal of Membrane Science</i> , 2010, 359, 54-63.	8.2	66
126	Behaviour of bipolar membranes at high current density Water diffusion limitation. <i>Separation and Purification Technology</i> , 1998, 14, 41-52.	7.9	65

#	ARTICLE	IF	CITATIONS
127	Adsorptive membranes for bilirubin removal. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 803, 215-223.	2.3	64
128	Microcontact Printing of Dendrimers, Proteins, and Nanoparticles by Porous Stamps. <i>Journal of the American Chemical Society</i> , 2009, 131, 797-803.	13.7	63
129	An integrated electrochemical process to convert lignin to value-added products under mild conditions. <i>Green Chemistry</i> , 2016, 18, 4999-5007.	9.0	63
130	Optimization of membrane based nitrogen removal from natural gas. <i>Journal of Membrane Science</i> , 2016, 498, 291-301.	8.2	63
131	Capillary hollow fiber nanofiltration membranes. <i>Separation and Purification Technology</i> , 2001, 22-23, 499-506.	7.9	62
132	Controlled depolymerization of lignin in an electrochemical membrane reactor. <i>Electrochemistry Communications</i> , 2015, 61, 49-52.	4.7	62
133	A comprehensive mathematical model of water splitting in bipolar membranes: Impact of the spatial distribution of fixed charges and catalyst at bipolar junction. <i>Journal of Membrane Science</i> , 2020, 603, 118010.	8.2	62
134	The sorption induced glass transition in amorphous glassy polymers. <i>Journal of Chemical Physics</i> , 1999, 110, 11061-11069.	3.0	61
135	Porous Photocatalytic Membrane Microreactor (P2M2): A new reactor concept for photochemistry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 225, 36-41.	3.9	61
136	Helically microstructured spacers improve mass transfer and fractionation selectivity in ultrafiltration. <i>Journal of Membrane Science</i> , 2014, 463, 41-48.	8.2	61
137	From Batch to Continuous Precipitation Polymerization of Thermoresponsive Microgels. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24799-24806.	8.0	61
138	Effect of spinning conditions on the structure and the gas permeation properties of high flux polyethersulfone/polyimide blend hollow fibers. <i>Desalination</i> , 2002, 144, 121-125.	8.2	60
139	Super selective membranes in gas-liquid membrane contactors for olefin/paraffin separation. <i>Journal of Membrane Science</i> , 2004, 232, 107-114.	8.2	60
140	Silicon for the perfect membrane. <i>Nature</i> , 2007, 445, 726-726.	27.8	60
141	Fouling Behavior of Microstructured Hollow Fiber Membranes in Dead-End Filtrations: Critical Flux Determination and NMR Imaging of Particle Deposition. <i>Langmuir</i> , 2011, 27, 1643-1652.	3.5	60
142	Modeling continuous flow-electrode capacitive deionization processes with ion-exchange membranes. <i>Journal of Membrane Science</i> , 2018, 546, 188-196.	8.2	60
143	A method for characterizing membranes during nanofiltration at extreme pH. <i>Journal of Membrane Science</i> , 2010, 363, 188-194.	8.2	59
144	Modeling Gas Permeation by Linking Nonideal Effects. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 1079-1088.	3.7	59

#	ARTICLE	IF	CITATIONS
145	Asymmetric bipolar membrane: A tool to improve product purity. <i>Journal of Membrane Science</i> , 2007, 287, 246-256.	8.2	58
146	CO ₂ sorption and transport behavior of OPA-based polyetherimide polymer films. <i>Polymer</i> , 2010, 51, 3907-3917.	3.8	58
147	Methanol production via direct carbon dioxide hydrogenation using hydrogen from photocatalytic water splitting: Process development and techno-economic analysis. <i>Journal of Cleaner Production</i> , 2019, 208, 1446-1458.	9.3	58
148	Tailoring the interface layer of the bipolar membrane. <i>Journal of Membrane Science</i> , 2010, 365, 389-398.	8.2	57
149	On negative retentions in organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2013, 447, 57-65.	8.2	57
150	Ion transport through electrolyte/polyelectrolyte multi-layers. <i>Scientific Reports</i> , 2015, 5, 11583.	3.3	57
151	Catalytic Polyelectrolyte Multilayers at the Bipolar Membrane Interface. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10445-10455.	8.0	56
152	Sieving of Hot Gases by Hyper-Cross-Linked Nanoscale-Hybrid Membranes. <i>Journal of the American Chemical Society</i> , 2014, 136, 330-335.	13.7	56
153	Towards a carbon independent and CO ₂ -free electrochemical membrane process for NH ₃ synthesis. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6129-6138.	2.8	56
154	Dual-Charged Hollow Fiber Membranes for Low-Pressure Nanofiltration Based on Polyelectrolyte Complexes: One-Step Fabrication with Tailored Functionalities. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19145-19157.	8.0	56
155	Pervaporation of aromatic C ₈ -isomers. <i>Journal of Membrane Science</i> , 1991, 57, 257-270.	8.2	55
156	Novel open-cellular polysulfone morphologies produced with trace concentrations of solvents as pore opener. <i>Journal of Membrane Science</i> , 2001, 187, 181-192.	8.2	55
157	Observations on the permeation performance of solvent resistant nanofiltration membranes. <i>Journal of Membrane Science</i> , 2006, 279, 424-433.	8.2	55
158	Microstructured spacers for submerged membrane filtration systems. <i>Journal of Membrane Science</i> , 2013, 446, 189-200.	8.2	55
159	Tunable permeability and selectivity: Heatable inorganic porous hollow fiber membrane with a thermo-responsive microgel coating. <i>Journal of Membrane Science</i> , 2017, 539, 451-457.	8.2	55
160	3D nanofabrication inside rapid prototyped microfluidic channels showcased by wet-spinning of single micrometre fibres. <i>Lab on A Chip</i> , 2018, 18, 1341-1348.	6.0	55
161	Asymmetric Bipolar Membranes in Acid-Base Electrodialysis. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 579-586.	3.7	54
162	A polyelectrolyte membrane-based vanadium/air redox flow battery. <i>Electrochemistry Communications</i> , 2011, 13, 751-754.	4.7	54

#	ARTICLE	IF	CITATIONS
163	Membrane-based recovery of glucose from enzymatic hydrolysis of ionic liquid pretreated cellulose. <i>Bioresource Technology</i> , 2013, 149, 58-64.	9.6	54
164	The effect of NaCl and glucose concentration on retentions for nanofiltration membranes processing concentrated solutions. <i>Separation and Purification Technology</i> , 2014, 134, 46-57.	7.9	54
165	Dimensionally stable Nafion®/polyethylene composite membranes for direct methanol fuel cell applications. <i>Journal of Membrane Science</i> , 2008, 321, 364-372.	8.2	53
166	Integration of biohydrogen fermentation and gas separation processes to recover and enrich hydrogen. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1490-1495.	7.1	52
167	Multiple time scale dynamics in the breakdown of superhydrophobicity. <i>Europhysics Letters</i> , 2008, 81, 66002.	2.0	52
168	NMR imaging of local cumulative permeate flux and local cake growth in submerged microfiltration processes. <i>Journal of Membrane Science</i> , 2011, 371, 52-64.	8.2	52
169	Ultra-thin hybrid polyhedral silsesquioxane®/polyamide films with potentially unlimited 2D dimensions. <i>Journal of Materials Chemistry</i> , 2012, 22, 14835.	6.7	52
170	Emulsion electro-oxidation of kraft lignin. <i>Green Chemistry</i> , 2017, 19, 4778-4784.	9.0	52
171	From beech wood to itaconic acid: case study on biorefinery process integration. <i>Biotechnology for Biofuels</i> , 2018, 11, 279.	6.2	52
172	Composite hollow fiber gas®/liquid membrane contactors for olefin/paraffin separation. <i>Separation and Purification Technology</i> , 2004, 37, 209-220.	7.9	51
173	Particle-loaded hollow-fiber membrane adsorbers for lysozyme separation. <i>Journal of Membrane Science</i> , 2008, 322, 306-313.	8.2	51
174	Subambient Temperature CO ₂ and Light Gas Permeation Through Segmented Block Copolymers with Tailored Soft Phase. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 551-560.	8.0	51
175	Improved phosphoric acid recovery from sewage sludge ash using layer-by-layer modified membranes. <i>Journal of Membrane Science</i> , 2019, 587, 117162.	8.2	51
176	Hollow fiber ultrafiltration membranes with microstructured inner skin. <i>Journal of Membrane Science</i> , 2011, 369, 221-227.	8.2	50
177	Composite capillary membrane for solvent resistant nanofiltration. <i>Journal of Membrane Science</i> , 2011, 372, 182-190.	8.2	50
178	Spectroscopic Ellipsometry Analysis of a Thin Film Composite Membrane Consisting of Polysulfone on a Porous γ -Alumina Support. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 935-943.	8.0	50
179	Coupling between Buoyancy Forces and Electroconvective Instability near Ion-Selective Surfaces. <i>Physical Review Letters</i> , 2016, 116, 194501.	7.8	50
180	Microfluidic colloid filtration. <i>Scientific Reports</i> , 2016, 6, 22376.	3.3	50

#	ARTICLE	IF	CITATIONS
181	Dilation kinetics of glassy, aromatic polyimides induced by carbon dioxide sorption. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 1371-1384.	2.1	49
182	Poly[1-(trimethylsilyl)-1-propyne] as a solvent resistance nanofiltration membrane material. <i>Journal of Membrane Science</i> , 2006, 281, 351-357.	8.2	49
183	Highly permeable and mechanically robust silicon carbide hollow fiber membranes. <i>Journal of Membrane Science</i> , 2015, 475, 480-487.	8.2	49
184	Ion mobility and partition determine the counter-ion selectivity of ion exchange membranes. <i>Journal of Membrane Science</i> , 2020, 597, 117645.	8.2	49
185	Ion Adsorption Parameters Determined from Zeta Potential and Titration Data for a γ -Alumina Nanofiltration Membrane. <i>Langmuir</i> , 2003, 19, 5861-5868.	3.5	48
186	Mixed matrix microporous hollow fibers with ion-exchange functionality. <i>Journal of Membrane Science</i> , 2004, 231, 109-115.	8.2	48
187	Porous ceramic mesoreactors: A new approach for gas-liquid contacting in multiphase microreaction technology. <i>Chemical Engineering Journal</i> , 2011, 169, 239-246.	12.7	48
188	Integration of hollow fiber membranes improves nutrient supply in three-dimensional tissue constructs. <i>Acta Biomaterialia</i> , 2011, 7, 3312-3324.	8.3	48
189	Continuous production and recovery of itaconic acid in a membrane bioreactor. <i>Bioresource Technology</i> , 2013, 137, 179-187.	9.6	48
190	New crosslinking method of polyamide-imide membranes for potential application in harsh polar aprotic solvents. <i>Separation and Purification Technology</i> , 2013, 102, 142-146.	7.9	48
191	Fouling behavior of microstructured hollow fibers in cross-flow filtrations: Critical flux determination and direct visual observation of particle deposition. <i>Journal of Membrane Science</i> , 2011, 372, 210-218.	8.2	47
192	Nanofiltration for the recovery of phosphorus – Development of a mass transport model. <i>Desalination</i> , 2014, 346, 70-78.	8.2	47
193	Closing the cycle: Phosphorus removal and recovery from diluted effluents using acid resistive membranes. <i>Chemical Engineering Journal</i> , 2018, 346, 640-648.	12.7	47
194	Effect of the 3D Swelling of Microgels on Their 2D Phase Behavior at the Liquid-Liquid Interface. <i>Langmuir</i> , 2019, 35, 16780-16792.	3.5	47
195	Preparation and characterization of gas separation hollow fiber membranes based on polyethersulfone-polyimide miscible blends. <i>Desalination</i> , 2002, 145, 353-357.	8.2	46
196	Characterization of polyethersulfone-polyimide hollow fiber membranes by atomic force microscopy and contact angle goniometry. <i>Journal of Membrane Science</i> , 2003, 226, 63-73.	8.2	46
197	Functionalised ethylene vinyl alcohol copolymer (EVAL) membranes for affinity protein separation. <i>Journal of Membrane Science</i> , 2003, 216, 177-193.	8.2	46
198	Interfacial aspects of water drop formation at micro-engineered orifices. <i>Journal of Colloid and Interface Science</i> , 2007, 312, 460-469.	9.4	46

#	ARTICLE	IF	CITATIONS
199	CFD simulation of single- and multi-phase flows through submerged membrane units with irregular fiber arrangement. <i>Journal of Membrane Science</i> , 2011, 384, 184-197.	8.2	46
200	Silt Density Index and Modified Fouling Index relation, and effect of pressure, temperature and membrane resistance. <i>Desalination</i> , 2011, 273, 48-56.	8.2	46
201	Development of poly(l-lactic acid) hollow fiber membranes for artificial vasculature in tissue engineering scaffolds. <i>Journal of Membrane Science</i> , 2011, 371, 117-126.	8.2	46
202	Rational design of ion separation membranes. <i>Journal of Membrane Science</i> , 2019, 569, 209-219.	8.2	46
203	Time-dependent permeation of carbon dioxide through a polyimide membrane above the plasticization pressure. <i>Journal of Applied Polymer Science</i> , 1995, 58, 1959-1966.	2.6	45
204	Analysis of the Complexation Reaction between Ag ⁺ and Ethylene. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 2627-2635.	3.7	45
205	Fullerene-Modified Poly(2,6-dimethyl-1,4-phenylene oxide) Gas Separation Membranes: Why Binding Is Better than Dispersing. <i>Macromolecules</i> , 2006, 39, 9234-9242.	4.8	45
206	Temperature-induced transition of the diffusion mechanism of n-hexane in ultra-thin polystyrene films, resolved by in-situ Spectroscopic Ellipsometry. <i>Polymer</i> , 2013, 54, 341-348.	3.8	45
207	What are the microscopic events of colloidal membrane fouling?. <i>Journal of Membrane Science</i> , 2018, 553, 90-98.	8.2	45
208	Preparation of ethylene vinylalcohol copolymer membranes suitable for ligand coupling in affinity separation. <i>Journal of Membrane Science</i> , 2002, 210, 155-173.	8.2	44
209	3D-printed conductive static mixers enable all-vanadium redox flow battery using slurry electrodes. <i>Journal of Power Sources</i> , 2018, 379, 228-233.	7.8	44
210	On the organic solvent free preparation of ultrafiltration and nanofiltration membranes using polyelectrolyte complexation in an all aqueous phase inversion process. <i>Journal of Membrane Science</i> , 2021, 618, 118632.	8.2	44
211	Preparation of porous hollow fiber membranes with a triple-orifice spinneret. <i>Journal of Applied Polymer Science</i> , 2003, 87, 2151-2157.	2.6	43
212	Chromic acid recovery by electro-electrodialysis. Evaluation of anion-exchange membrane. <i>Journal of Membrane Science</i> , 2005, 261, 49-57.	8.2	43
213	Micropatterned Polymer Films by Vapor-Induced Phase Separation Using Permeable Molds. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2856-2861.	8.0	43
214	Nanometer-thick lateral polyelectrolyte micropatterns induce macroscopic electro-osmotic chaotic fluid instabilities. <i>Scientific Reports</i> , 2014, 4, 4294.	3.3	43
215	Ag-Functionalized Carbon Molecular-Sieve Membranes Based on Polyelectrolyte/Polyimide Blend Precursors. <i>Advanced Functional Materials</i> , 2005, 15, 69-75.	14.9	42
216	New replication technique for the fabrication of thin polymeric microfluidic devices with tunable porosity. <i>Lab on A Chip</i> , 2005, 5, 1240.	6.0	42

#	ARTICLE	IF	CITATIONS
217	Towards spacer free electrodialysis. <i>Journal of Membrane Science</i> , 2009, 341, 131-138.	8.2	42
218	Chemistry in a spinneret—On the interplay of crosslinking and phase inversion during spinning of novel hollow fiber membranes. <i>Journal of Membrane Science</i> , 2011, 369, 308-318.	8.2	42
219	Simple purification of ionic liquid solvents by nanofiltration in biorefining of lignocellulosic substrates. <i>Journal of Membrane Science</i> , 2012, 405-406, 1-10.	8.2	42
220	Overcoming lignin heterogeneity: reliably characterizing the cleavage of technical lignin. <i>Green Chemistry</i> , 2016, 18, 531-540.	9.0	42
221	Water recycling from mixed chromic acid waste effluents by membrane technology. <i>Separation and Purification Technology</i> , 2006, 49, 76-83.	7.9	41
222	Boltorn-Modified Poly(2,6-dimethyl-1,4-phenylene oxide) Gas Separation Membranes. <i>Macromolecules</i> , 2007, 40, 5400-5410.	4.8	41
223	Use of Particle Imaging Velocimetry to measure liquid velocity profiles in liquid and liquid/gas flows through spacer filled channels. <i>Journal of Membrane Science</i> , 2010, 362, 143-153.	8.2	41
224	Geometrical influence on mixing in helical porous membrane microcontactors. <i>Journal of Membrane Science</i> , 2011, 378, 351-358.	8.2	41
225	An Adaptive Self-Healing Ionic Liquid Nanocomposite Membrane for Olefin-Paraffin Separations. <i>Advanced Materials</i> , 2012, 24, 4306-4310.	21.0	41
226	Towards a generic method for inorganic porous hollow fibers preparation with shrinkage-controlled small radial dimensions, applied to Al ₂ O ₃ , Ni, SiC, stainless steel, and YSZ. <i>Journal of Membrane Science</i> , 2012, 407-408, 155-163.	8.2	41
227	Hollow fiber membrane contactors—A means to study the reaction kinetics of humic substance ozonation. <i>Journal of Membrane Science</i> , 2005, 257, 48-59.	8.2	40
228	The role of wetting on the water flux performance of microsieve membranes. <i>Journal of Membrane Science</i> , 2005, 259, 55-64.	8.2	40
229	The influence of membrane properties on the Silt Density Index. <i>Journal of Membrane Science</i> , 2011, 384, 205-218.	8.2	40
230	Fabrication of cell container arrays with overlaid surface topographies. <i>Biomedical Microdevices</i> , 2012, 14, 95-107.	2.8	40
231	n-Hexane induced swelling of thin PDMS films under non-equilibrium nanofiltration permeation conditions, resolved by spectroscopic ellipsometry. <i>Journal of Membrane Science</i> , 2013, 437, 313-323.	8.2	40
232	3D-Printed Electrodes with Improved Mass Transport Properties. <i>ChemElectroChem</i> , 2017, 4, 3309-3313.	3.4	40
233	Helium recovery using membrane processes. <i>Separation and Purification Technology</i> , 2017, 189, 433-440.	7.9	40
234	Phosphorus recovery in an acidic environment using layer-by-layer modified membranes. <i>Journal of Membrane Science</i> , 2019, 582, 254-263.	8.2	40

#	ARTICLE	IF	CITATIONS
235	Carbon nanotube silica composite hollow fibers impregnated with polyethylenimine for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2019, 359, 476-484.	12.7	40
236	2D Patterned Ion-Exchange Membranes Induce Electroconvection. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801309.	3.7	40
237	Electrochemical acidification of milk by whey desalination. <i>Journal of Membrane Science</i> , 2007, 303, 213-220.	8.2	39
238	On the isolation of single acidic amino acids for biorefinery applications using electrodialysis. <i>Journal of Membrane Science</i> , 2011, 384, 166-175.	8.2	39
239	Flow-Electrode Capacitive Deionization for Double Displacement Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3906-3912.	6.7	39
240	Continuous hyperpolarization with parahydrogen in a membrane reactor. <i>Journal of Magnetic Resonance</i> , 2018, 291, 8-13.	2.1	39
241	3D-printed rotating spinnerets create membranes with a twist. <i>Journal of Membrane Science</i> , 2018, 555, 7-19.	8.2	39
242	Cell Encapsulation in Soft, Anisometric Poly(ethylene) Glycol Microgels Using a Novel Radical-Free Microfluidic System. <i>Small</i> , 2019, 15, e1900692.	10.0	39
243	Dynamic behavior of adsorber membranes for protein recovery. <i>Biotechnology and Bioengineering</i> , 2003, 84, 564-572.	3.3	38
244	Regeneration of mixed solvent by electrodialysis: selective removal of chloride and sulfate. <i>Journal of Membrane Science</i> , 2005, 250, 113-133.	8.2	38
245	Chemistry in a spinneret to fabricate hollow fibers for organic solvent filtration. <i>Separation and Purification Technology</i> , 2012, 86, 183-189.	7.9	38
246	Carboxylic Acids Production via Electrochemical Depolymerization of Lignin. <i>ChemElectroChem</i> , 2019, 6, 1434-1442.	3.4	38
247	Multi-scale membrane process optimization with high-fidelity ion transport models through machine learning. <i>Journal of Membrane Science</i> , 2020, 608, 118208.	8.2	38
248	Auto and mutual plasticization in single and mixed gas C ₃ transport through Matrimid-based hollow fiber membranes. <i>Journal of Membrane Science</i> , 2008, 312, 84-96.	8.2	37
249	Particle deposition and biofilm formation on microstructured membranes. <i>Journal of Membrane Science</i> , 2010, 364, 43-51.	8.2	37
250	Fouling behavior of microstructured hollow fiber membranes in submerged and aerated filtrations. <i>Water Research</i> , 2011, 45, 1865-1871.	11.3	37
251	Flow-electrode capacitive deionization enables continuous and energy-efficient brine concentration. <i>Desalination</i> , 2020, 490, 114453.	8.2	37
252	Carbon dioxide foaming of glassy polymers. <i>Journal of Applied Polymer Science</i> , 1994, 53, 1497-1512.	2.6	36

#	ARTICLE	IF	CITATIONS
253	High performance micro-engineered hollow fiber membranes by smart spinneret design. <i>Journal of Membrane Science</i> , 2005, 256, 209-209.	8.2	36
254	Designing porosity and topography of poly(1,3-trimethylene carbonate) scaffolds. <i>Acta Biomaterialia</i> , 2009, 5, 3281-3294.	8.3	36
255	Sorption induced relaxations during water diffusion in S-PEEK. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 298-308.	2.8	36
256	A microfluidic membrane chip for in situ fouling characterization. <i>Journal of Membrane Science</i> , 2010, 346, 202-207.	8.2	36
257	Important factors influencing molecular weight cut-off determination of membranes in organic solvents. <i>Journal of Membrane Science</i> , 2012, 390-391, 211-217.	8.2	36
258	Tubular macro-porous titanium membranes. <i>Journal of Membrane Science</i> , 2014, 461, 139-145.	8.2	36
259	On the permselectivity of cation-exchange membranes bearing an ion selective coating. <i>Journal of Membrane Science</i> , 2020, 600, 117854.	8.2	36
260	Composite hollow fiber membranes for organic solvent-based liquid-liquid extraction. <i>Journal of Membrane Science</i> , 2004, 234, 1-10.	8.2	35
261	Micro-patterned Nafion membranes for direct methanol fuel cell applications. <i>Journal of Membrane Science</i> , 2010, 349, 231-236.	8.2	35
262	Ionic liquid silver salt complexes for propene/propane separation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 725-731.	2.8	35
263	Optimizing hybrid membrane-pressure swing adsorption processes for biogenic hydrogen recovery. <i>Chemical Engineering Journal</i> , 2019, 364, 452-461.	12.7	35
264	Heme-Protein Active Site Models via Self-Assembly in Water. <i>Organic Letters</i> , 2003, 5, 3367-3370.	4.6	34
265	Tailoring surface properties for controlling droplet formation at microsieve membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 292, 224-235.	4.7	34
266	A sacrificial-layer approach to prepare microfiltration membranes. <i>Journal of Membrane Science</i> , 2008, 320, 1-7.	8.2	34
267	Bubbles in spacers: Direct observation of bubble behavior in spacer filled membrane channels. <i>Journal of Membrane Science</i> , 2009, 333, 38-44.	8.2	34
268	Polymeric microsieves via phase separation microfabrication: Process and design optimization. <i>Journal of Membrane Science</i> , 2010, 347, 93-100.	8.2	34
269	Hierarchically Structured Assembly of Polymer Microsieves, made by a Combination of Phase Separation Micromolding and Float-Casting. <i>Advanced Materials</i> , 2012, 24, 1551-1557.	21.0	34
270	Proton-exchange membranes based on sulfonated poly(ether ether ketone)/polyaniline blends for all- and air-vanadium redox flow battery applications. <i>Journal of Energy Storage</i> , 2015, 1, 65-71.	8.1	34

#	ARTICLE	IF	CITATIONS
271	Water vapor permeance: The interplay of feed and permeate activity. <i>Journal of Membrane Science</i> , 2015, 485, 69-78.	8.2	34
272	Additive Manufacturing in Fluid Process Engineering. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 535-552.	0.8	34
273	Tuning the ion selectivity of porous poly(2,5-benzimidazole) membranes by phase separation for all vanadium redox flow batteries. <i>Journal of Membrane Science</i> , 2018, 556, 164-177.	8.2	34
274	On charge percolation in slurry electrodes used in vanadium redox flow batteries. <i>Electrochemistry Communications</i> , 2019, 101, 104-108.	4.7	34
275	Soft temperature-responsive microgels of complex shape in stop-flow lithography. <i>Lab on A Chip</i> , 2020, 20, 285-295.	6.0	34
276	Comparison of bipolar membranes by means of chronopotentiometry. <i>Journal of Membrane Science</i> , 2002, 199, 177-190.	8.2	33
277	Effect of testing conditions and filtration mechanisms on SDI. <i>Journal of Membrane Science</i> , 2011, 381, 142-151.	8.2	33
278	Siloxane removal using silicone-rubber membranes. <i>Separation and Purification Technology</i> , 2012, 89, 234-244.	7.9	33
279	Mixed Matrix Membranes: A New Asset for Blood Purification Therapies. <i>Blood Purification</i> , 2014, 37, 1-3.	1.8	33
280	Monolayer microgel composite membranes with tunable permeability. <i>Journal of Membrane Science</i> , 2018, 555, 473-482.	8.2	33
281	Stimuli-Responsive Zwitterionic Core-Shell Microgels for Antifouling Surface Coatings. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 58223-58238.	8.0	33
282	Unraveling the effect of charge distribution in a polyelectrolyte multilayer nanofiltration membrane on its ion transport properties. <i>Journal of Membrane Science</i> , 2020, 611, 118045.	8.2	33
283	Protein aggregate deposition and fouling reduction strategies with high-flux silicon nitride microsieves. <i>Journal of Membrane Science</i> , 2006, 273, 68-76.	8.2	32
284	Vibrating polymeric microsieves: Antifouling strategies for microfiltration. <i>Journal of Membrane Science</i> , 2006, 285, 323-333.	8.2	32
285	A membrane electrode assembly for the electrochemical synthesis of hydrocarbons from CO ₂ (g) and H ₂ O(g). <i>Electrochemistry Communications</i> , 2015, 50, 64-68.	4.7	32
286	Basement Membrane Mimics of Biofunctionalized Nanofibers for a Bipolar-Cultured Human Primary Alveolar-Capillary Barrier Model. <i>Biomacromolecules</i> , 2017, 18, 719-727.	5.4	32
287	Corrosion of metal electrodes in deep eutectic solvents. <i>Electrochemistry Communications</i> , 2018, 90, 101-105.	4.7	32
288	Catalytically Active Hollow Fiber Membranes with Enzyme-Embedded Metal-Organic Framework Coating. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16047-16053.	13.8	32

#	ARTICLE	IF	CITATIONS
289	Using SDI, SDI+ and MFI to evaluate fouling in a UF/RO desalination pilot plant. <i>Desalination</i> , 2012, 285, 153-162.	8.2	31
290	Rational Design of Ion Exchange Membrane Material Properties Limits the Crossover of CO ₂ Reduction Products in Artificial Photosynthesis Devices. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12030-12042.	8.0	31
291	Comparing flat and micro-patterned surfaces: Gas permeation and tensile stress measurements. <i>Journal of Membrane Science</i> , 2008, 320, 173-178.	8.2	30
292	A facile method to fabricate poly(l-lactide) nano-fibrous morphologies by phase inversion. <i>Acta Biomaterialia</i> , 2010, 6, 2477-2483.	8.3	30
293	Solvent dependent solute solubility governs retention in silicone based organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2016, 497, 47-54.	8.2	30
294	Monte Carlo Simulation of Partially Confined Flexible Polymers. <i>Macromolecules</i> , 2002, 35, 5267-5272.	4.8	29
295	Water vapor and gas transport through a poly(butylene terephthalate) poly(ethylene oxide) block copolymer. <i>Desalination</i> , 2002, 148, 303-307.	8.2	29
296	Shrinkage effects during polymer phase separation on microfabricated molds. <i>Journal of Membrane Science</i> , 2010, 347, 141-149.	8.2	29
297	Liquid/liquid extraction of biomass-derived lignin from lignocellulosic pretreatments. <i>Green Chemistry</i> , 2017, 19, 93-97.	9.0	29
298	Unravelling Electrochemical Lignin Depolymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7565-7573.	6.7	29
299	Interplay between physical cleaning, membrane pore size and fluid rheology during the evolution of fouling in membrane bioreactors. <i>Water Research</i> , 2018, 147, 393-402.	11.3	29
300	Adsorption of carbon dioxide on solid amine-functionalized sorbents: A dual kinetic model. <i>Separation and Purification Technology</i> , 2018, 204, 13-20.	7.9	29
301	Electrical swing adsorption on functionalized hollow fibers. <i>Chemical Engineering Journal</i> , 2019, 371, 107-117.	12.7	29
302	Simultaneous rational design of ion separation membranes and processes. <i>Journal of Membrane Science</i> , 2020, 600, 117860.	8.2	29
303	Efficient Electrocatalytic N ₂ Reduction on Three-Phase Interface Coupled in a Three-Compartment Flow Reactor for the Ambient NH ₃ Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21411-21425.	8.0	29
304	Selection of top layer materials for gas-liquid membrane contactors. <i>Journal of Applied Polymer Science</i> , 2004, 92, 323-334.	2.6	28
305	Chemical and Thermal Stability of Alkylsilane Based Coatings for Membrane Emulsification. <i>Advanced Engineering Materials</i> , 2004, 6, 749-754.	3.5	28
306	Novel Gas Separation Membranes Containing Covalently Bonded Fullerenes. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1674-1678.	3.9	28

#	ARTICLE	IF	CITATIONS
307	Micro-fabricated metal nozzle plates used for water-in-oil and oil-in-water emulsification. <i>Journal of Membrane Science</i> , 2008, 310, 374-383.	8.2	28
308	On image pre-processing for PIV of single- and two-phase flows over reflecting objects. <i>Experiments in Fluids</i> , 2010, 49, 525-530.	2.4	28
309	CO ₂ Nucleation in Membrane Spacer Channels Remove Biofilms and Fouling Deposits. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 10034-10039.	3.7	28
310	Hybrid Polyhedral Oligomeric Silsesquioxanes-Imides with Tailored Intercage Spacing for Sieving of Hot Gases. <i>Chemistry of Materials</i> , 2014, 26, 3660-3664.	6.7	28
311	Characterization of hollow fiber membranes by impedance spectroscopy. <i>Journal of Membrane Science</i> , 2015, 473, 318-326.	8.2	28
312	Mechanistic modeling of the dielectric impedance of layered membrane architectures. <i>Journal of Membrane Science</i> , 2016, 520, 29-36.	8.2	28
313	Sinusoidal shaped hollow fibers for enhanced mass transfer. <i>Journal of Membrane Science</i> , 2017, 533, 302-308.	8.2	28
314	Can the variance in membrane performance influence the design of organic solvent nanofiltration processes?. <i>Journal of Membrane Science</i> , 2019, 575, 217-228.	8.2	28
315	Fouling minimization at membranes having a 3D surface topology with microgels as soft model colloids. <i>Journal of Membrane Science</i> , 2019, 569, 7-16.	8.2	28
316	Thermodynamics of Water Vapor Sorption in Poly(ethylene oxide) Poly(butylene terephthalate) Block Copolymers. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13629-13635.	2.6	27
317	Nafion®/H-ZSM-5 composite membranes with superior performance for direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2009, 338, 75-83.	8.2	27
318	Carbon nanofibers in catalytic membrane microreactors. <i>Journal of Membrane Science</i> , 2011, 381, 244-250.	8.2	27
319	Porous stainless steel hollow fibers with shrinkage-controlled small radial dimensions. <i>Scripta Materialia</i> , 2011, 65, 25-28.	5.2	27
320	A microtubular all CNT gas diffusion electrode. <i>Electrochemistry Communications</i> , 2014, 46, 44-47.	4.7	27
321	How Much Do Ultrathin Polymers with Intrinsic Microporosity Swell in Liquids?. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10403-10410.	2.6	27
322	On-line monitoring of cake layer structure during fouling on porous membranes by in situ electrical impedance analysis. <i>Journal of Membrane Science</i> , 2016, 503, 188-198.	8.2	27
323	Droplet-based liquid-liquid extraction inside a porous capillary. <i>Chemical Engineering Journal</i> , 2017, 307, 143-149.	12.7	27
324	Chemistry in a spinneret - Composite hollow fiber membranes in a single step process. <i>Journal of Membrane Science</i> , 2018, 554, 48-58.	8.2	27

#	ARTICLE	IF	CITATIONS
325	Outside-In Trimming of Humic Substances During Ozonation in a Membrane Contactor. <i>Environmental Science & Technology</i> , 2006, 40, 6460-6465.	10.0	26
326	Free Volume in C ₆₀ Modified PPO Polymer Membranes by Positron Annihilation Lifetime Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13914-13918.	2.6	26
327	Highly Selective Amino Acid Salt Solutions as Absorption Liquid for CO ₂ Capture in Gas-Liquid Membrane Contactors. <i>ChemSusChem</i> , 2010, 3, 939-947.	6.8	26
328	Multicomponent mass transport in organic solvent nanofiltration with solvent mixtures. <i>Journal of Membrane Science</i> , 2014, 466, 361-369.	8.2	26
329	Tracking homogeneous reactions during electro dialysis of organic acids via EIS. <i>Journal of Membrane Science</i> , 2020, 595, 117592.	8.2	26
330	Continuous gas-phase hydroformylation of but-1-ene in a membrane reactor by supported liquid-phase (SLP) catalysis. <i>Green Chemistry</i> , 2020, 22, 5691-5700.	9.0	26
331	The effect of WWTP effluent zeta-potential on direct nanofiltration performance. <i>Journal of Membrane Science</i> , 2005, 266, 80-93.	8.2	25
332	Ceramic microfluidic monoliths by ice templating. <i>Microporous and Mesoporous Materials</i> , 2010, 134, 216-219.	4.4	25
333	Human Co- and Triple-Culture Model of the Alveolar-Capillary Barrier on a Basement Membrane Mimic. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 495-503.	2.1	25
334	Membrane-electrode assemblies for flow-electrode capacitive deionization. <i>Journal of Membrane Science</i> , 2020, 605, 118095.	8.2	25
335	Tailoring the Properties of Asymmetric Cellulose Acetate Membranes by Gas Plasma Etching. <i>Journal of Colloid and Interface Science</i> , 2002, 245, 338-348.	9.4	24
336	Influence of geometrical and operational parameters on the performance of porous catalytic membrane reactors. <i>Chemical Engineering Journal</i> , 2012, 207-208, 814-821.	12.7	24
337	n-Hexane induced swelling of thin PDMS films under non-equilibrium nanofiltration permeation conditions, resolved by spectroscopic ellipsometry. <i>Journal of Membrane Science</i> , 2013, 431, 233-243.	8.2	24
338	Probing the Surface Swelling in Ultra-Thin Supported Polystyrene Films During Case II Diffusion of n-Hexane. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2480-2488.	2.2	24
339	Electrodialysis of itaconic acid: A short-cut model quantifying the electrical resistance in the overlimiting current density region. <i>Journal of Membrane Science</i> , 2014, 453, 275-281.	8.2	24
340	Enzymatically Active Ultrathin Pepsin Membranes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5910-5914.	13.8	24
341	Electrochemical impedance spectroscopy fingerprints the ion selectivity of microgel functionalized ion-exchange membranes. <i>Electrochemistry Communications</i> , 2016, 72, 113-117.	4.7	24
342	3D MRI velocimetry of non-transparent 3D-printed staggered herringbone mixers. <i>Chemical Engineering Journal</i> , 2018, 343, 54-60.	12.7	24

#	ARTICLE	IF	CITATIONS
343	Layer-by-layer membrane modification allows scandium recovery by nanofiltration. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1683-1688.	2.4	24
344	Two-Photon Vertical-Flow Lithography for Microtube Synthesis. <i>Small</i> , 2019, 15, e1901356.	10.0	24
345	Characterization of antibacterial polyethersulfone membranes using the respiration activity monitoring system (RAMOS). <i>Water Research</i> , 2012, 46, 5401-5409.	11.3	23
346	How to determine the correct sample volume by gravimetric sorption measurements. <i>Adsorption</i> , 2013, 19, 1117-1125.	3.0	23
347	Corrugated round fibers to improve cell adhesion and proliferation in tissue engineering scaffolds. <i>Acta Biomaterialia</i> , 2013, 9, 6928-6935.	8.3	23
348	Microtubes made of carbon nanotubes. <i>Carbon</i> , 2014, 68, 818-820.	10.3	23
349	Microfiltration of deformable microgels. <i>Soft Matter</i> , 2016, 12, 6512-6517.	2.7	23
350	Rope coiling spinning of curled and meandering hollow-fiber membranes. <i>Journal of Membrane Science</i> , 2016, 506, 86-94.	8.2	23
351	High-Pressure CO ₂ Sorption in Polymers of Intrinsic Microporosity under Ultrathin Film Confinement. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11369-11376.	8.0	23
352	Cell barrier characterization in transwell inserts by electrical impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112345.	10.1	23
353	Optical vs. direct sorption and swelling measurements for the study of stiff-chain polymer-penetrant interactions. <i>Journal of Membrane Science</i> , 1997, 130, 75-83.	8.2	22
354	Efficient gas-liquid contact using microfluidic membrane devices with staggered herringbone mixers. <i>Lab on A Chip</i> , 2015, 15, 3132-3137.	6.0	22
355	How Do Organic Vapors Swell Ultrathin Films of Polymer of Intrinsic Microporosity PIM-1?. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7210-7220.	2.6	22
356	Chemistry in a spinneret – Sinusoidal-shaped composite hollow fiber membranes. <i>Journal of Membrane Science</i> , 2019, 585, 115-125.	8.2	22
357	Diffusion through rubbery and glassy polymer membranes. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1991, 45, 237-257.	0.6	21
358	Flux stabilization of silicon nitride microsieves by backpulsing and surface modification with PEG moieties. <i>Journal of Colloid and Interface Science</i> , 2006, 299, 831-840.	9.4	21
359	Porous Microfluidic Devices – Fabrication and Applications. <i>Chemical Engineering and Technology</i> , 2007, 30, 309-315.	1.5	21
360	Impregnated membranes for direct methanol fuel cells at high methanol concentrations. <i>Journal of Membrane Science</i> , 2009, 328, 127-133.	8.2	21

#	ARTICLE	IF	CITATIONS
361	Polymer Relaxations in Thin Films in the Vicinity of a Penetrant- or Temperature-Induced Glass Transition. <i>Macromolecules</i> , 2014, 47, 3654-3660.	4.8	21
362	Spacer enhanced heat and mass transfer in membrane-based enthalpy exchangers. <i>Journal of Membrane Science</i> , 2016, 520, 566-573.	8.2	21
363	Rejection modeling of ceramic membranes in organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2016, 510, 191-200.	8.2	21
364	Microfluidic cell sorting: Towards improved biocompatibility of extracorporeal lung assist devices. <i>Scientific Reports</i> , 2018, 8, 8031.	3.3	21
365	Preparation and characterization of crosslinked poly(vinylimidazolium) anion exchange membranes for artificial photosynthesis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23818-23829.	10.3	21
366	Aqueous-Phase Temperature Swing Adsorption for Pesticide Removal. <i>Environmental Science & Technology</i> , 2019, 53, 919-927.	10.0	21
367	Aerating static mixers prevent fouling. <i>Journal of Membrane Science</i> , 2019, 570-571, 537-546.	8.2	21
368	Wetâ€‘Spinning of Biocompatible Coreâ€‘Shell Polyelectrolyte Complex Fibers for Tissue Engineering. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000849.	3.7	21
369	What are the microscopic events during membrane backwashing?. <i>Journal of Membrane Science</i> , 2020, 602, 117886.	8.2	21
370	A nonequilibrium simulation method for calculating tracer diffusion coefficients of small solutes in n-alkane liquids and polymers. <i>Journal of Chemical Physics</i> , 1998, 108, 9558-9565.	3.0	20
371	New ways to produce porous polymeric membranes by carbon dioxide foaming. <i>Desalination</i> , 2002, 144, 5-7.	8.2	20
372	Generation of Local Concentration Gradients by Gasâ€‘Liquid Contacting. <i>Analytical Chemistry</i> , 2008, 80, 3190-3197.	6.5	20
373	Sorption Behavior of Compressed CO ₂ and CH ₄ on Ultrathin Hybrid Poly(POSS-imide) Layers. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26977-26988.	8.0	20
374	Direct Observation of Deformation in Microgel Filtration. <i>Scientific Reports</i> , 2019, 9, 18998.	3.3	20
375	Indirect 3D Printed Electrode Mixers. <i>ChemElectroChem</i> , 2019, 6, 378-382.	3.4	20
376	Tubular hollow fibre electrodes for CO ₂ reduction made from copper aluminum alloy with drastically increased intrinsic porosity. <i>Electrochemistry Communications</i> , 2020, 111, 106645.	4.7	20
377	CNT Microtubes with Entrapped Fe ₃ O ₄ Nanoparticles Remove Micropollutants through a Heterogeneous Electroâ€‘Fenton Process at Neutral pH. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100001.	5.3	20
378	Unraveling ultrafiltration of polysaccharides with flow field flow fractionation. <i>Journal of Membrane Science</i> , 2009, 338, 67-74.	8.2	19

#	ARTICLE	IF	CITATIONS
379	Development of thin palladium membranes supported on large porous 310L tubes for a steam reformer operated with gas-to-liquid fuel. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 81, 13-23.	3.6	19
380	On individual resistances of selective skin, porous support and diffusion boundary layer in water vapor permeation. <i>Journal of Membrane Science</i> , 2016, 507, 179-187.	8.2	19
381	Optimized Hollow Fiber Sorbents and Pressure Swing Adsorption Process for H ₂ Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5093-5105.	3.7	19
382	Metallized hollow fiber membranes for electrochemical fouling control. <i>Journal of Membrane Science</i> , 2020, 594, 117397.	8.2	19
383	Steady-state electrochemical synthesis of HKUST-1 with polarity reversal. <i>Microporous and Mesoporous Materials</i> , 2020, 303, 110218.	4.4	19
384	Chemistry in a spinneret – Formation of hollow fiber membranes with a cross-linked polyelectrolyte separation layer. <i>Journal of Membrane Science</i> , 2020, 612, 118325.	8.2	19
385	Modular modeling of electrochemical reactors: Comparison of CO ₂ -electrolyzers. <i>Computers and Chemical Engineering</i> , 2020, 139, 106890.	3.8	19
386	Biocompatible Micron-Scale Silk Fibers Fabricated by Microfluidic Wet Spinning. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100898.	7.6	19
387	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 2002, 32, 455-465.	2.9	18
388	Affinity membranes for hormone removal from aqueous solutions. <i>Journal of Membrane Science</i> , 2005, 259, 91-102.	8.2	18
389	New membrane material for SRNF applications. <i>Desalination</i> , 2006, 199, 251-252.	8.2	18
390	Electrochemical reduction of dilute chromate solutions on carbon felt electrodes. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 323-332.	2.9	18
391	Hollow fiber ultrafiltration: The concept of partial backwashing. <i>Journal of Membrane Science</i> , 2008, 320, 319-324.	8.2	18
392	Boltorn-modified polyimide gas separation membranes. <i>Journal of Membrane Science</i> , 2008, 310, 512-521.	8.2	18
393	Reverse-flow diafiltration for continuous in situ product recovery. <i>Journal of Membrane Science</i> , 2012, 421-422, 39-50.	8.2	18
394	Effective medium approximations for penetrant sorption in glassy polymers accounting for excess free volume. <i>Polymer</i> , 2014, 55, 1737-1744.	3.8	18
395	Short and spaced twisted tapes to mitigate fouling in tubular membranes. <i>Journal of Membrane Science</i> , 2020, 595, 117426.	8.2	18
396	Designing tubular composite membranes of polyelectrolyte multilayer on ceramic supports with nanofiltration and reverse osmosis transport properties. <i>Journal of Membrane Science</i> , 2021, 620, 118851.	8.2	18

#	ARTICLE	IF	CITATIONS
397	Hydrogel membranes made from crosslinked microgel multilayers with tunable density. <i>Journal of Membrane Science</i> , 2021, 620, 118912.	8.2	18
398	Polyelectrolyte Complex Tubular Membranes via a Salt Dilution Induced Phase Inversion Process. <i>Advanced Engineering Materials</i> , 2021, 23, 2001401.	3.5	18
399	Two-dimensional stochastic modeling of membrane fouling. <i>Separation and Purification Technology</i> , 2001, 24, 375-387.	7.9	17
400	Olefin-Selective Membranes in Gas-Liquid Membrane Contactors for Olefin/Paraffin Separation. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 720-727.	3.7	17
401	Tailoring the surface charge of an ultrafiltration hollow fiber by addition of a polyanion to the coagulation bore liquid. <i>Journal of Membrane Science</i> , 2011, 369, 59-67.	8.2	17
402	On the Design of a 4-End Spiral-Wound L/L Extraction Membrane Module. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 1004-1014.	3.7	17
403	Microtubular Gas Diffusion Electrode Based on Ruthenium-Carbon Nanotubes for Ambient Electrochemical Nitrogen Reduction to Ammonia. <i>ChemElectroChem</i> , 2020, 7, 4679-4684.	3.4	17
404	Ultrafiltration of charge-stabilized dispersions at low salinity. <i>Soft Matter</i> , 2016, 12, 4638-4653.	2.7	16
405	Modeling heat and mass transfer in cross-counterflow enthalpy exchangers. <i>Journal of Membrane Science</i> , 2017, 525, 68-76.	8.2	16
406	Multi-walled carbon nanotube-based composite materials as catalyst support for water-gas shift and hydroformylation reactions. <i>RSC Advances</i> , 2019, 9, 27732-27742.	3.6	16
407	CO ₂ /CH ₄ Pure- and Mixed-Gas Dilation and Sorption in Thin (~450 nm) and Ultrathin (~45 nm) Polymers of Intrinsic Microporosity. <i>Macromolecules</i> , 2020, 53, 8765-8774.	4.8	16
408	Structure-dependent gas transfer performance of 3D-membranes for artificial membrane lungs. <i>Journal of Membrane Science</i> , 2021, 634, 119371.	8.2	16
409	Why device design is crucial for membrane adsorbers. <i>Journal of Chromatography Open</i> , 2022, 2, 100029.	2.2	16
410	Porous Monofilaments by Continuous Solid-State Foaming. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 1195-1204.	3.7	15
411	SDI normalization and alternatives. <i>Desalination</i> , 2011, 279, 390-403.	8.2	15
412	Visual characterization of fouling with bidisperse solution. <i>Journal of Membrane Science</i> , 2011, 368, 110-115.	8.2	15
413	Optimizing Argon Recovery: Membrane Separation of Carbon Monoxide at High Concentrations via the Water Gas Shift. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 12463-12470.	3.7	15
414	Flow and filtration imaging of single use sterile membrane filters. <i>Journal of Membrane Science</i> , 2018, 552, 274-285.	8.2	15

#	ARTICLE	IF	CITATIONS
415	Shell and lumen side flow and pressure communication during permeation and filtration in a multibore polymer membrane module. <i>Journal of Membrane Science</i> , 2019, 584, 254-267.	8.2	15
416	High-Throughput Production of Micrometer Sized Double Emulsions and Microgel Capsules in Parallelized 3D Printed Microfluidic Devices. <i>Polymers</i> , 2019, 11, 1887.	4.5	15
417	Combining Manning's theory and the ionic conductivity experimental approach to characterize selectivity of cation exchange membranes. <i>Journal of Membrane Science</i> , 2021, 629, 119263.	8.2	15
418	Charge distribution in polyelectrolyte multilayer nanofiltration membranes affects ion separation and scaling propensity. <i>Journal of Membrane Science</i> , 2021, 636, 119533.	8.2	15
419	Tuning the excess charge and inverting the salt rejection hierarchy of polyelectrolyte multilayer membranes. <i>Journal of Membrane Science</i> , 2021, 639, 119636.	8.2	15
420	Direct 3D observation and unraveling of electroconvection phenomena during concentration polarization at ion-exchange membranes. <i>Journal of Membrane Science</i> , 2021, 640, 119846.	8.2	15
421	Effects of time, temperature, and pressure in the vicinity of the glass transition of a swollen polymer. <i>Journal of Membrane Science</i> , 2014, 464, 80-85.	8.2	14
422	Mixed-Penetrant Sorption in Ultrathin Films of Polymer of Intrinsic Microporosity PIM-1. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10190-10197.	2.6	14
423	Parallel online determination of ethylene release rate by Shaken Parsley cell cultures using a modified RAMOS device. <i>BMC Plant Biology</i> , 2018, 18, 101.	3.6	14
424	Modelling the permeability of polymers: a neural network approach. <i>Journal of Membrane Science</i> , 1994, 86, 193-198.	8.2	13
425	Techno-economic Analysis of Membrane-Based Argon Recovery in a Silicon Carbide Process. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 10460-10466.	3.7	13
426	On the droplet formation in hollow-fiber emulsification. <i>Journal of Membrane Science</i> , 2014, 467, 109-115.	8.2	13
427	Systematic optimization of H ₂ recovery from water splitting process using membranes and N ₂ diluent. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6000-6011.	7.1	13
428	Towards a Biohybrid Lung: Endothelial Cells Promote Oxygen Transfer through Gas Permeable Membranes. <i>BioMed Research International</i> , 2017, 2017, 1-8.	1.9	13
429	Process model for high salinity flow-electrode capacitive deionization processes with ion-exchange membranes. <i>Journal of Membrane Science</i> , 2020, 616, 118614.	8.2	13
430	Freestanding PAC/CNT microtubes remove sulfamethoxazole from water through a temperature-assisted cyclic process. <i>Journal of Hazardous Materials</i> , 2020, 392, 122133.	12.4	13
431	A scalable bubble-free membrane aerator for biosurfactant production. <i>Biotechnology and Bioengineering</i> , 2021, 118, 3545-3558.	3.3	13
432	Porous PEDOT:PSS Particles and their Application as Tunable Cell Culture Substrate. <i>Advanced Materials Technologies</i> , 2022, 7, 2100836.	5.8	13

#	ARTICLE	IF	CITATIONS
433	Simulation-based guidance for improving CO ₂ reduction on silver gas diffusion electrodes. <i>Electrochemical Science Advances</i> , 2023, 3, .	2.8	13
434	Hollow fiber dead-end ultrafiltration: Axial transport variations during humic acid filtration. <i>Journal of Membrane Science</i> , 2008, 314, 112-122.	8.2	12
435	A microgrooved membrane based gas-liquid contactor. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 499-509.	2.2	12
436	Modeling of gas-liquid reactions in porous membrane microreactors. <i>Journal of Membrane Science</i> , 2012, 419-420, 57-64.	8.2	12
437	Relaxation induced optical anisotropy during dynamic overshoot swelling of zwitterionic polymer films. <i>Thin Solid Films</i> , 2013, 545, 320-326.	1.8	12
438	A membrane stirrer for product recovery and substrate feeding. <i>Biotechnology and Bioengineering</i> , 2015, 112, 331-338.	3.3	12
439	Dynamic process simulation and process control of biogas permeation processes. <i>Journal of Membrane Science</i> , 2015, 484, 107-118.	8.2	12
440	Effect of high salt concentration on phosphorus recovery from sewage sludge and dewatering properties. <i>Journal of Water Process Engineering</i> , 2017, 19, 277-282.	5.6	12
441	In-situ non-invasive imaging of liquid-immersed thin film composite membranes. <i>Journal of Membrane Science</i> , 2018, 546, 206-214.	8.2	12
442	Charged microgels adsorbed on porous membranes - A study of their mobility and molecular retention. <i>Journal of Membrane Science</i> , 2019, 588, 117190.	8.2	12
443	Assessment of Layer-By-Layer Modified Nanofiltration Membrane Stability in Phosphoric Acid. <i>Membranes</i> , 2020, 10, 61.	3.0	12
444	On the Resistances of a Slurry Electrode Vanadium Redox Flow Battery. <i>ChemElectroChem</i> , 2020, 7, 2165-2172.	3.4	12
445	A mini-module with built-in spacers for high-throughput ultrafiltration. <i>Journal of Membrane Science</i> , 2021, 637, 119602.	8.2	12
446	One-pot synthesized, Fe-incorporated self-standing carbons with a hierarchical porosity remove carbamazepine and sulfamethoxazole through heterogeneous electro-Fenton. <i>Chemical Engineering Journal</i> , 2022, 446, 137006.	12.7	12
447	Gas transport and sub-T _g relaxations in unmodified and nitrated polyarylethersulfones. <i>Journal of Membrane Science</i> , 1992, 74, 193-201.	8.2	11
448	Polymer-in-a-Silica-Crust Membranes: Macroporous Materials with Tunable Surface Functionality. <i>Langmuir</i> , 2006, 22, 5459-5468.	3.5	11
449	Modeling on swelling behavior of a confined polymer network. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 1589-1593.	2.1	11
450	Inovatividade, envolvimento, atitude e experiência na adoção da compra on-line. <i>RAE Revista De Administracao De Empresas</i> , 2011, 51, 568-584.	0.3	11

#	ARTICLE	IF	CITATIONS
451	Limitations for transferring lab-scale microfiltration results to large-scale membrane bioreactor (MBR) processes. <i>Separation and Purification Technology</i> , 2012, 95, 202-215.	7.9	11
452	Water hammer reduces fouling during natural water ultrafiltration. <i>Water Research</i> , 2012, 46, 1113-1120.	11.3	11
453	Limitations, improvements and alternatives of the silt density index. <i>Desalination and Water Treatment</i> , 2013, 51, 1104-1113.	1.0	11
454	Structure and gas separation properties of ultra-smooth PE-CVD silicon organic coated composite membranes. <i>Surface and Coatings Technology</i> , 2021, 421, 127338.	4.8	11
455	A Tubular Electrochemical Reactor for Slurry Electrodes. <i>ChemElectroChem</i> , 2020, 7, 2665-2671.	3.4	11
456	Chemistry in a spinneret—Polydopamine functionalized hollow fiber membranes. <i>Journal of Membrane Science</i> , 2022, 648, 120324.	8.2	11
457	Phase behavior of polymer–diluent systems characterized by temperature modulated differential scanning calorimetry. <i>Thermochimica Acta</i> , 2001, 378, 27-34.	2.7	10
458	Application of gas separation to recover biohydrogen produced by <i>Thiocapsa roseopersicina</i> . <i>Desalination</i> , 2004, 163, 261-265.	8.2	10
459	Frozen slurry catalytic reactor: A new structured catalyst for transient studies in liquid phase. <i>Applied Catalysis A: General</i> , 2008, 351, 159-165.	4.3	10
460	Development of multilayer constructs for tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 106-119.	2.7	10
461	Drying of supercritical carbon dioxide with membrane processes. <i>Journal of Supercritical Fluids</i> , 2015, 98, 137-146.	3.2	10
462	CO ₂ aided H ₂ recovery from water splitting processes. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 21793-21805.	7.1	10
463	On the rejection and reversibility of fouling in ultrafiltration as assessed by hydraulic impedance spectroscopy. <i>Journal of Membrane Science</i> , 2018, 564, 532-542.	8.2	10
464	Temperature Enhanced Backwash. <i>Water Research</i> , 2018, 142, 18-25.	11.3	10
465	Enhancing the separation properties of plasma polymerized membranes on polydimethylsiloxane substrates by adjusting the auxiliary gas in the PECVD processes. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 445301.	2.8	10
466	Platelet count reduction during in vitro membrane oxygenation affects platelet activation, neutrophil extracellular trap formation and clot stability, but does not prevent clotting. <i>Perfusion (United Kingdom)</i> , 2021, , 026765912198923.	1.0	10
467	Additive manufacturing of composite porosity mixer electrodes. <i>Electrochemistry Communications</i> , 2022, 134, 107176.	4.7	10
468	Fabrication, Flow Assembly, and Permeation of Microscopic Any-Shape Particles. <i>Small</i> , 2022, 18, e2107508.	10.0	10

#	ARTICLE	IF	CITATIONS
469	The role of the salt electrolyte on the electrical conductive properties of a polymeric bipolar membrane. <i>Journal of Electroanalytical Chemistry</i> , 2001, 513, 36-44.	3.8	9
470	Polymer intrusion into narrow pores at the interface between a poor solvent and adsorbing and non-adsorbing surfaces. <i>Polymer</i> , 2004, 45, 3027-3036.	3.8	9
471	Adsorption behavior of cation-exchange resin-mixed polyethersulfone-based fibrous adsorbents with bovine serum albumin. <i>Desalination</i> , 2006, 192, 224-233.	8.2	9
472	Overcoming the drawbacks of microsieves with micromeshes for in situ product recovery. <i>Journal of Membrane Science</i> , 2013, 436, 16-27.	8.2	9
473	Temperaturgesteuerte Wasserfiltration mit Mikrogelmodifizierten Hohlfasermembranen. <i>Angewandte Chemie</i> , 2014, 126, 5814-5818.	2.0	9
474	Project house water: a novel interdisciplinary framework to assess the environmental and socioeconomic consequences of flood-related impacts. <i>Environmental Sciences Europe</i> , 2017, 29, 23.	5.5	9
475	Feed flow patterns of combined Rayleigh-Bénard convection and membrane permeation. <i>Journal of Membrane Science</i> , 2018, 549, 60-66.	8.2	9
476	Homogeneous Catalyst Recycling and Separation of a Multicomponent Mixture Using Organic Solvent Nanofiltration. <i>Chemical Engineering and Technology</i> , 2019, 42, 2187-2194.	1.5	9
477	Electrochemical Membrane Reactor Modeling for Lignin Depolymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2091-2099.	6.7	9
478	Unravelling colloid filter cake motions in membrane cleaning procedures. <i>Scientific Reports</i> , 2020, 10, 20043.	3.3	9
479	Ultra-low temperature water-gas shift reaction catalyzed by homogeneous Ru-complexes in a membrane reactor – membrane development and proof of concept. <i>Catalysis Science and Technology</i> , 2021, 11, 1558-1570.	4.1	9
480	Reconstruction of Ultra-thin Alveolar Capillary Basement Membrane Mimics. <i>Advanced Biology</i> , 2021, 5, e2000427.	2.5	9
481	Open and dense hollow fiber nanofiltration membranes through a streamlined polyelectrolyte-based spinning process. <i>Journal of Membrane Science</i> , 2022, 644, 120100.	8.2	9
482	Single-step chitosan functionalized membranes for heparinization. <i>Journal of Membrane Science</i> , 2022, 655, 120567.	8.2	9
483	Transport of gases through polymeric membranes. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1993, 70-71, 379-396.	0.6	8
484	Desalting a process cooling water using nanofiltration. <i>Separation and Purification Technology</i> , 2001, 22-23, 159-168.	7.9	8
485	Coiled fiber membrane chromatography. <i>Journal of Membrane Science</i> , 2010, 346, 327-334.	8.2	8
486	Block Copolymer Derived Membranes for Sustained Carbon Dioxide/Methane Separations. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 12051-12059.	3.7	8

#	ARTICLE	IF	CITATIONS
487	Solvent-resistant P84-based mixed matrix membrane adsorbers. Separation and Purification Technology, 2011, 80, 306-314.	7.9	8
488	Enzymatic Conversion in Ion-Exchange Mixed Matrix Hollow Fiber Membranes. Industrial & Engineering Chemistry Research, 2013, 52, 8635-8644.	3.7	8
489	In situ product recovery of single-chain antibodies in a membrane bioreactor. Biotechnology and Bioengineering, 2014, 111, 1566-1576.	3.3	8
490	Droplet formation and shrinking in aqueous two-phase systems using a membrane emulsification method. Biomicrofluidics, 2015, 9, 044122.	2.4	8
491	Membrane impedance porometry. Journal of Membrane Science, 2017, 542, 352-366.	8.2	8
492	Converting two wastes to value. Nature Energy, 2019, 4, 440-441.	39.5	8
493	The hydrothermal solution for self-sustaining drinking water purification at point of use. Water Research, 2020, 170, 115338.	11.3	8
494	How is mixed-gas permeation through poly(1-trimethylsilyl-1-propyne) membranes influenced by elevated temperatures?. Journal of Membrane Science, 2020, 615, 118430.	8.2	8
495	Can PDMS membranes separate aldehydes and alkenes at high temperatures?. Journal of Membrane Science, 2020, 615, 118334.	8.2	8
496	Modeling hindered diffusion of antibodies in agarose beads considering pore size reduction due to adsorption. Journal of Chromatography A, 2020, 1626, 461319.	3.7	8
497	Monolithic SiC supports with tailored hierarchical porosity for molecularly selective membranes and supported liquid-phase catalysis. Catalysis Today, 2022, 383, 44-54.	4.4	8
498	Towards synergistic oscillations in enzymatically active hydrogel spheres. Soft Matter, 2021, 17, 592-599.	2.7	8
499	Templating the morphology of soft microgel assemblies using a nanolithographic 3D-printed membrane. Scientific Reports, 2021, 11, 812.	3.3	8
500	Rotating microstructured spinnerets produce helical ridge membranes to overcome mass transfer limitations. Journal of Membrane Science, 2022, 643, 119988.	8.2	8
501	Limitations of the lifetime stabilization of supported liquid membrane by polyamides layers. Separation and Purification Technology, 1999, 17, 147-157.	7.9	7
502	Synthesis and properties of hydrophilic segmented block copolymers based on poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 1Q Tf 50 142	2.6	7
503	Double layer mixed matrix membrane adsorbers improving capacity and safety hemodialysis. IOP Conference Series: Materials Science and Engineering, 2018, 352, 012048.	0.6	7
504	Lithography: Two-Photon Vertical-Flow Lithography for Microtube Synthesis (Small 33/2019). Small, 2019, 15, 1970177.	10.0	7

#	ARTICLE	IF	CITATIONS
505	Influence of flow alterations on bacteria retention during microfiltration. Journal of Membrane Science, 2019, 575, 147-159.	8.2	7
506	Monodisperse Porous Microspheres with pH-Responsive Permeability and Reactivity. ACS Applied Polymer Materials, 2020, 2, 932-938.	4.4	7
507	3D-Printed Bioreactor with Integrated Impedance Spectroscopy for Cell Barrier Monitoring. Advanced Materials Technologies, 2021, 6, 2100009.	5.8	7
508	Wet-Spun PEDOT/CNT Composite Hollow Fibers as Flexible Electrodes for H ₂ O ₂ Production**. ChemElectroChem, 2021, 8, 1665-1673.	3.4	7
509	In-line Monitoring of Microgel Synthesis: Flow versus Batch Reactor. Organic Process Research and Development, 2021, 25, 2039-2051.	2.7	7
510	Rotation-in-a-Spinneret integrates static mixers inside hollow fiber membranes. Journal of Membrane Science, 2022, 656, 120599.	8.2	7
511	Analysis of the kinetics of vapor absorption/desorption in/from silicone rubber and cellulose acetate membranes in the presence of stagnant boundary layers. Journal of Membrane Science, 1997, 125, 165-175.	8.2	6
512	Correction for Unadkat et al., An algorithm-based topographical biomaterials library to instruct cell fate. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5905-5905.	7.1	6
513	Gas-Gas Separation by Membranes. , 2015, , 557-584.		6
514	Laserless Additive Manufacturing of Membrane Electrode Assemblies. ChemElectroChem, 2017, 4, 2760-2763.	3.4	6
515	Membrane based direct pH parametric pumping. Journal of Membrane Science, 2018, 558, 78-85.	8.2	6
516	Chilled membranes-Efficient gas permeation at sub-ambient temperatures. Journal of Membrane Science, 2019, 576, 171-181.	8.2	6
517	Lewis acidic water as a new carrier for facilitating CO ₂ transport. Journal of Materials Chemistry A, 2019, 7, 5190-5194.	10.3	6
518	Catalytically Active Hollow Fiber Membranes with Enzyme-Embedded Metal-Organic Framework Coating. Angewandte Chemie, 2020, 132, 16181-16187.	2.0	6
519	Atomic layer deposition for efficient oxygen evolution reaction at Pt/Ir catalyst layers. Beilstein Journal of Nanotechnology, 2020, 11, 952-959.	2.8	6
520	Combining electrochemical hydrogen separation and temperature vacuum swing adsorption for the separation of N ₂ , H ₂ and CO ₂ . International Journal of Hydrogen Energy, 2020, 45, 9811-9820.	7.1	6
521	Mitigating Water Crossover by Crosslinked Coating of Cation-Exchange Membranes for Brine Concentration. Advanced Materials Technologies, 2021, 6, 2100202.	5.8	6
522	Porous PVDF Monoliths with Templated Geometry. Advanced Materials Technologies, 0, , 2100325.	5.8	6

#	ARTICLE	IF	CITATIONS
523	Three-dimensional membranes for artificial lungs: Comparison of flow-induced hemolysis. <i>Artificial Organs</i> , 2022, 46, 412-426.	1.9	6
524	Linking the effect of temperature on adsorption from aqueous solution with solute dissociation. <i>Journal of Hazardous Materials</i> , 2022, 429, 128291.	12.4	6
525	Monte Carlo Calculations of Polymer Adsorption at the Entrance of Cylindrical Pores in Flat Adsorbing Surfaces. <i>Soft Materials</i> , 2003, 1, 295-312.	1.7	5
526	Hydraulic impedance spectroscopy tracks colloidal matter accumulation during ultrafiltration. <i>Journal of Membrane Science</i> , 2017, 535, 294-300.	8.2	5
527	Direct membrane heating for temperature induced fouling prevention. <i>Journal of Membrane Science</i> , 2020, 612, 118431.	8.2	5
528	Hydrotropic Solutions Enable Homogeneous Fenton Treatment of Lignin. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 4229-4238.	3.7	5
529	Particle movements provoke avalanche-like compaction in soft colloid filter cakes. <i>Scientific Reports</i> , 2021, 11, 12836.	3.3	5
530	Metal Recovery from Multi-elementary Electroplating Wastewater Using Passion Fruit Powder. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 1091-1101.	2.3	5
531	How does porosity heterogeneity affect the transport properties of multibore filtration membranes?. <i>Journal of Membrane Science</i> , 2021, 636, 119520.	8.2	5
532	Surface Charge Affecting Fluid-Fluid Displacement at Pore Scale. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	5
533	Coupled Ionic-Electronic Charge Transport in Organic Neuromorphic Devices. <i>Advanced Theory and Simulations</i> , 0, , 2100492.	2.8	5
534	TPMS-based membrane lung with locally-modified permeabilities for optimal flow distribution. <i>Scientific Reports</i> , 2022, 12, 7160.	3.3	5
535	Synthesis of novel nanostructured mixed matrix membranes. <i>Desalination</i> , 2002, 148, 401-405.	8.2	4
536	In-situ investigation of wetting patterns in polymeric multibore membranes via magnetic resonance imaging. <i>Journal of Membrane Science</i> , 2021, 622, 119026.	8.2	4
537	Recycling and Separation of Homogeneous Catalyst from Aqueous Multicomponent Mixture by Organic Solvent Nanofiltration. <i>Membranes</i> , 2021, 11, 423.	3.0	4
538	Automated tangential-flow diafiltration device. <i>HardwareX</i> , 2021, 10, e00200.	2.2	4
539	In-Line Characterization of the Temperature-Responsive Behavior of Surface-Bound Microgel Coatings by QCM-D: A Novel Strategy for Protein Repellence Evaluation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10907-10916.	8.0	4
540	Evaluation of the membrane performance of ultra-smooth silicon organic coatings depending on the process energy density. <i>Thin Solid Films</i> , 2022, 748, 139169.	1.8	4

#	ARTICLE	IF	CITATIONS
541	Oestrogen removal from biological pretreated wastewater within decentralised sanitation and re-use concepts. <i>Water Science and Technology</i> , 2006, 53, 141-150.	2.5	3
542	Influence of Pyrolysis Parameters on the Performance of CMSM. <i>International Journal of Chemical Engineering</i> , 2009, 2009, 1-7.	2.4	3
543	Chapter 7. Membrane Gas Separation Processes for Post-combustion CO ₂ Capture. , 2011, , 196-214.		3
544	Tailoring of free standing microchannels structures via microtemplating. <i>Materials Research Bulletin</i> , 2011, 46, 505-511.	5.2	3
545	<i>In situ</i> cell retention of a CHO culture by a reverse flow diafiltration membrane bioreactor. <i>Biotechnology Progress</i> , 2014, 30, 1348-1355.	2.6	3
546	Noninvasive Quantification of Cell Density in Three-Dimensional Gels by MRI. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 821-830.	4.2	3
547	Evaluating water purification at household level in India. , 0, 91, 311-319.		3
548	Direct Electrosynthesis of 2-Butanone from Fermentation Supernatant. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6483-6492.	6.7	3
549	Monte Carlo simulations of polymer conformations at the bulk/membrane interface. <i>Desalination</i> , 2002, 145, 393-395.	8.2	2
550	Analysis of Cell-Stabilizing Additives in Low-Density Polyethylene Foams Using Low-Frequency Dielectric Spectroscopy. <i>Macromolecules</i> , 2003, 36, 6817-6823.	4.8	2
551	Response to Comment on "Outside-In Trimming of Humic Substances During Ozonation in a Membrane Contactor". <i>Environmental Science & Technology</i> , 2007, 41, 5162-5164.	10.0	2
552	Model to Design Multilayer Tissue Engineering Scaffolds. <i>Macromolecular Symposia</i> , 2011, 309-310, 84-92.	0.7	2
553	Microsieves: Hierarchically Structured Assembly of Polymer Microsieves, made by a Combination of Phase Separation Micromolding and Float Casting (Adv. Mater. 12/2012). <i>Advanced Materials</i> , 2012, 24, 1498-1498.	21.0	2
554	Preliminary Study on the Application of Temperature Swing Adsorption in Aqueous Phase for Pesticide Removal. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 159, 012013.	0.3	2
555	Co-generation of Ammonia and H ₂ from H ₂ O Vapor and N ₂ Using a Membrane Electrode Assembly. <i>Chemie-Ingenieur-Technik</i> , 2020, 92, 62-69.	0.8	2
556	About a Membrane with Microfluidic Porous-Wall Channels of Cylindrical Shape for Droplet Formation. <i>Langmuir</i> , 2020, 36, 9935-9943.	3.5	2
557	Trypsin-Free Cultivation of 3D Mini-Tissues in an Adaptive Membrane Bioreactor. <i>Advanced Biology</i> , 2020, 4, e2000081.	3.0	2
558	Two-level porosity electrodes from metal-polymer dispersions. <i>Electrochemistry Communications</i> , 2022, 135, 107205.	4.7	2

#	ARTICLE	IF	CITATIONS
559	Organosilica coating layer prevents aging of a polymer with intrinsic microporosity. Plasma Processes and Polymers, 2022, 19, .	3.0	2
560	Surface texturing inside ceramic macro/micro channels. Journal of the European Ceramic Society, 2010, 30, 1345-1350.	5.7	1
561	Porous membrane structures as stationary phase for capillary electrochromatography. Electrophoresis, 2012, 33, 2892-2895.	2.4	1
562	Ultrafiltration Membranes Modified using the Layer-by-Layer Assembly of Polyelectrolytes for Enhanced Performance. Procedia Engineering, 2012, 44, 1624-1625.	1.2	1
563	Conjugated polymer particles: towards self-assembling organic photonics. Proceedings of SPIE, 2013, , .	0.8	1
564	Correction for Unadkat et al., An algorithm-based topographical biomaterials library to instruct cell fate. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5731-5731.	7.1	1
565	Quasi-continuous fermentation in a reverse-flow diafiltration bioreactor. Biochemical Engineering Journal, 2014, 91, 265-275.	3.6	1
566	Immobilization of myoglobin in sodium alginate composite membranes. Polimeros, 2015, 25, 265-270.	0.7	1
567	Do silicone- based membranes permeate or reject salts?. Desalination, 2015, 357, 121-130.	8.2	1
568	Chaotic Flow Dynamics Investigated by 3D MRI and CFD Analysis. Chemie-Ingenieur-Technik, 2016, 88, 1280-1280.	0.8	1
569	Tollens Reactionâ€Based Integration of Thin Film Wall Electrodes into Microfluidic PDMS Devices. Advanced Materials Technologies, 2021, 6, 2100250.	5.8	1
570	Freestanding Nitrogenâ€Doped Carbons with Hierarchical Porosity for Environmental Applications: A Green Templating Route with Bioâ€Based Precursors. Global Challenges, 2021, 5, 2100062.	3.6	1
571	Sensitivity of SDI for experimental errors. , 0, 40, 100-117.		1
572	Hybrid silica â€ polymer macroporous membranes with tunable surface functionality. Desalination, 2006, 199, 296-298.	8.2	0
573	High-throughput screening of cell-surface topographic interactions. , 2009, , .		0
574	A novel method for the fabrication of freestanding PZT features on substrates. Journal of the European Ceramic Society, 2009, 29, 3227-3233.	5.7	0
575	Structured Membranes. Procedia Engineering, 2012, 44, 316-317.	1.2	0
576	iPOSS Nano Ultra-thin Hybrid Polyhedral Silsesquioxane-polyamide Films with Potentially Unlimited Dimensions. Procedia Engineering, 2012, 44, 1209.	1.2	0

#	ARTICLE	IF	CITATIONS
577	A Generic Method for Inorganic Porous Hollow Fibers Preparation with Shrinkage-controlled Small Radial Dimensions. <i>Procedia Engineering</i> , 2012, 44, 644-645.	1.2	0
578	Erratum to "Hexane induced swelling of thin PDMS films under non-equilibrium nanofiltration permeation conditions, resolved by spectroscopic ellipsometry". <i>J. Membr. Sci.</i> 431 (2013), 233-243]. <i>Journal of Membrane Science</i> , 2013, 437, 312.	8.2	0
579	"Next Generation Processes and Products"; <i>Chemie-Ingenieur-Technik</i> , 2013, 85, 1159-1159.	0.8	0
580	Online monitoring of transient L/L phase separation using locally resolved impedance measurements. <i>Chemical Engineering Research and Design</i> , 2016, 115, 251-259.	5.6	0
581	Mikrogel-Kompositmembranen mit schaltbarer Permeabilität. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1323-1323.	0.8	0
582	Strömungsprofil von überlagerter Permeation und Rayleigh-Bénard-Konvektion. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1332-1332.	0.8	0
583	Additive Fertigung elektrochemischer Reaktoren und Elektroden. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1210-1210.	0.8	0
584	Nächste Generation von Produkten und Prozessen. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1183-1183.	0.8	0
585	Bipolar Electrodialysis for Purification of Fermentation-Based Products. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1403-1403.	0.8	0
586	Identifizierung optimaler Membraneigenschaften und -konfigurationen für die Gastrennung. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1384-1385.	0.8	0
587	Ion Transport through Electrolyte/Polyelectrolyte Architectures. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1298-1298.	0.8	0
588	Dynamic Modelling of Membrane-based pH Parametric Pumping. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1332-1332.	0.8	0
589	Direktes Spinnverfahren zur Herstellung von Komposit-Hohlfasermembranen. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1323-1324.	0.8	0
590	Erfassung des Koaleszenz- und Sedimentationsverhaltens von trüben Systemen in einer standardisierten Absetzzelle. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1289-1289.	0.8	0
591	Membranprozesse zur Heliumgewinnung. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1379-1379.	0.8	0
592	Hohlfasern aus Kohlenstoffnanoröhren mit immobilisiertem Polyethylenimin zur CO ₂ -Trennung. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1340-1340.	0.8	0
593	Hydrophobic membrane with nanopores developed for efficient energy storage. <i>Membrane Technology</i> , 2017, 2017, 8.	0.1	0
594	Polymeric Membranes With Sufficient Thermo-Mechanical Stability to Deploy Temperature Enhanced Backwash. <i>Chemie-Ingenieur-Technik</i> , 2021, 93, 1417-1422.	0.8	0

#	ARTICLE	IF	CITATIONS
595	Wetting-Induced Polyelectrolyte Pore Bridging. Membranes, 2021, 11, 671.	3.0	0
596	Mapping Cell Viability Quantitatively and Independently From Cell Density in 3D Gels Noninvasively. IEEE Transactions on Biomedical Engineering, 2021, 68, 2940-2947.	4.2	0