Suzana P Nunes

List of Publications by Year
in descending order

286	12,925	19655 61	33889 99
papers	citations	h-index	g-index

293	293	293	9835
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent membrane development for pervaporation processes. Progress in Polymer Science, 2016, 57, 1-31.	24.7	440
2	Inorganic modification of proton conductive polymer membranes for direct methanol fuel cells. Journal of Membrane Science, 2002, 203, 215-225.	8.2	355
3	Thinking the future of membranes: Perspectives for advanced and new membrane materials and manufacturing processes. Journal of Membrane Science, 2020, 598, 117761.	8.2	348
4	CO₂-Philic Polymer Membrane with Extremely High Separation Performance. Macromolecules, 2010, 43, 326-333.	4.8	288
5	Materials and membrane technologies for water and energy sustainability. Sustainable Materials and Technologies, 2016, 7, 1-28.	3.3	279
6	Switchable pH-Responsive Polymeric Membranes Prepared via Block Copolymer Micelle Assembly. ACS Nano, 2011, 5, 3516-3522.	14.6	255
7	Two-dimensional nanochannel membranes for molecular and ionic separations. Chemical Society Reviews, 2020, 49, 1071-1089.	38.1	242
8	Selective Separation of Similarly Sized Proteins with Tunable Nanoporous Block Copolymer Membranes. ACS Nano, 2013, 7, 768-776.	14.6	240
9	Developments in Membrane Research: from Material via Process Design to Industrial Application. Advanced Engineering Materials, 2006, 8, 328-358.	3.5	215
10	Block Copolymer Membranes for Aqueous Solution Applications. Macromolecules, 2016, 49, 2905-2916.	4.8	212
11	Ultraporous Films with Uniform Nanochannels by Block Copolymer Micelles Assembly. Macromolecules, 2010, 43, 8079-8085.	4.8	200
12	Membranes for gas separation based on poly(1-trimethylsilyl-1-propyne)â€“silica nanocomposites. Journal of Membrane Science, 2005, 246, 13-25.	8.2	198
13	Ultrafiltration membranes from PVDF/PMMA blends. Journal of Membrane Science, 1992, 73, 25-35.	8.2	178
14	Organic/inorganic composite membranes for application in DMFC. Solid State Ionics, 2003, 162-163, 269-275.	2.7	178
15	Dense hydrophilic composite membranes for ultrafiltration. Journal of Membrane Science, 1995, 106, 49-56.	8.2	153
16	Evidence for spinodal decomposition and nucleation and growth mechanisms during membrane formation. Journal of Membrane Science, 1996, 111, 93-103.	8.2	147
17	Proton electrolyte membrane properties and direct methanol fuel cell performance. Journal of Power Sources, 2005, 140, 34-40.	7.8	146
18	A Hybrid Microbial Fuel Cell Membrane Bioreactor with a Conductive Ultrafiltration Membrane Biocathode for Wastewater Treatment. Environmental Science & Technology, 2013, 47, 11821-11828.	10.0	142

#	Article	IF	Citations
19	Polymer nanocomposite membranes for DMFC application. Journal of Membrane Science, 2005, 254, 139-146.	8.2	136
20	Sulfonated montmorillonite/sulfonated poly(ether ether ketone) (SMMT/SPEEK) nanocomposite membrane for direct methanol fuel cells (DMFCs). Journal of Membrane Science, 2008, 323, 337-346.	8.2	132
21	Membranes of poly(ether imide) and nanodispersed silica. Journal of Membrane Science, 1999, 157, 219-226.	8.2	131
22	Biomimetic block copolymer particles with gated nanopores and ultrahigh protein sorption capacity. Nature Communications, 2014, 5, 4110.	12.8	124
23	Selfâ€Assembled Asymmetric Block Copolymer Membranes: Bridging the Gap from Ultraâ€•to Nanofiltration. Angewandte Chemie - International Edition, 2015, 54, 13937-13941.	13.8	122
24	Organicâ€“inorganic membranes prepared from polyether diamine and epoxy silane. Journal of Membrane Science, 1999, 159, 197-207.	8.2	117
25	Performance evaluation of the DCMD desalination process under bench scale and large scale module operating conditions. Journal of Membrane Science, 2014, 455, 103-112.	8.2	116
26	Reduction of methanol permeability in polyetherketoneâ€“heteropolyacid membranes. Journal of Membrane Science, 2003, 217, 5-15.	8.2	112
27	Biomimetic artificial water channel membranes for enhanced desalination. Nature Nanotechnology, 2021, 16, 190-196.	31.5	109
28	Synthesis and fabrication of nanostructured hydrophobic polyazole membranes for low-energy water recovery. Journal of Membrane Science, 2012, 423-424, 11-19.	8.2	106
29	Ultrathin 2Dâ€Layered Cyclodextrin Membranes for Highâ€•Performance Organic Solvent Nanofiltration. Advanced Functional Materials, 2020, 30, 1906797.	14.9	103
30	Molecularly-porous ultrathin membranes for highly selective organic solvent nanofiltration. Nature Communications, 2020, 11, 5882.	12.8	101
31	Solution Small-Angle X-ray Scattering as a Screening and Predictive Tool in the Fabrication of Asymmetric Block Copolymer Membranes. ACS Macro Letters, 2012, 1, 614-617.	4.8	100
32	Self-assembly in casting solutions of block copolymer membranes. Soft Matter, 2013, 9, 5557.	2.7	100
33	From Micelle Supramolecular Assemblies in Selective Solvents to Isoporous Membranes. Langmuir, 2011, 27, 10184-10190.	3.5	99
34	Hybrid films of poly(ethylene oxide- b -amide-6) containing solâ€“gel silicon or titanium oxide as inorganic fillers: effect of morphology and mechanical properties on gas permeability. Polymer, 2000, 41, 5461-5470.	3.8	98
35	In situ compatibilization of polyamide 6/natural rubber blends with maleic anhydride. Polymer, 2000, 41, 5929-5935.	3.8	98
36	Performance and efficiency of a DMFC using non-fluorinated composite membranes operating at low/medium temperatures. Journal of Power Sources, 2005, 145, 485-494.	7.8	93

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37	From Charge-Mosaic to Micelle Self-Assembly: Block Copolymer Membranes in the Last 40 Years. Industrial & Engineering Chemistry Research, 2013, 52, 993-1003.	3.7	88
38	Hydroxyl Functionalized Polytriazole-co-polyoxadiazole as Substrates for Forward Osmosis Membranes. ACS Applied Materials & Interfaces, 2015, 7, 3960-3973.	8.0	88
39	2D-dual-spacing channel membranes for high performance organic solvent nanofiltration. Journal of Materials Chemistry A, 2019, 7, 11673-11682.	10.3	88
40	Characterization and application of composite membranes in DMFC. Catalysis Today, 2005, 104, 205-212.	4.4	83
41	Quaternary ammonium membrane materials for CO2 separation. Journal of Membrane Science, 2010, 359, 44-53.	8.2	82
42	Selfâ€Assembled Isoporous Block Copolymer Membranes with Tuned Pore Sizes. Angewandte Chemie - International Edition, 2014, 53, 10072-10076.	13.8	82
43	Phase separation in PMMA/silica sol-gel systems. Polymer, 1995, 36, 1425-1434.	3.8	80
44	Isoporous PS-b-PEO ultrafiltration membranes via self-assembly and water-induced phase separation. Journal of Membrane Science, 2014, 453, 471-477.	8.2	80
45	Cellulose multilayer membranes manufacture with ionic liquid. Journal of Membrane Science, 2015, 490, 282-293.	8.2	80
46	Structural Characterization of Catalytically Active Metal Nanoclusters in Poly(amide imide) Films with High Metal Loading. Journal of Physical Chemistry B, 1997, 101, 1279-1291.	2.6	78
47	Proton-conductive membranes of sulfonated polyphenylsulfone. Journal of Applied Polymer Science, 2002, 86, 2820-2827.	2.6	78
48	Polyimide Asymmetric Membranes for Hydrogen Separation: Influence of Formation Conditions on Gas Transport Properties. Advanced Engineering Materials, 2006, 8, 390-397.	3.5	78
49	Hydrophobic thin film composite nanofiltration membranes derived solely from sustainable sources. Green Chemistry, 2021, 23, 1175-1184.	9.0	78
50	Proton conductive membranes of sulfonated poly(ether ketone ketone). Journal of Membrane Science, 2005, 260, 181-186.	8.2	72
51	Thermal degradation of polyetherimide joined by friction riveting (FricRiveting). Part I: Influence of rotation speed. Polymer Degradation and Stability, 2008, 93, 1529-1538.	5.8	72
52	Recycled Poly(ethylene terephthalate) for High Temperature Solvent Resistant Membranes. ACS Applied Polymer Materials, 2019, 1, 2379-2387.	4.4	72
53	Hybrids of perfluorosulfonic acid ionomer and silicon oxide by sol-gel reaction from solution: Morphology and thermal analysis. Polymer, 1998, 39, 1309-1315.	3.8	71
54	Interfacial Polymerization of Zwitterionic Building Blocks for High-Flux Nanofiltration Membranes. Langmuir, 2019, 35, 1284-1293.	3.5	71

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55	Smart covalent organic networks (CONs) with â€œon-off-onâ€•light-switchable pores for molecular separation. Science Advances, 2020, 6, eabb3188.	10.3	71
56	Recent advances in polymer membranes employing non-toxic solvents and materials. Green Chemistry, 2021, 23, 9815-9843.	9.0	71
57	Proton electrolyte membrane properties and direct methanol fuel cell performance. Journal of Power Sources, 2005, 140, 41-49.	7.8	69
58	Block Copolymer Hollow Fiber Membranes with Catalytic Activity and pH-Response. ACS Applied Materials & Interfaces, 2013, 5, 7001-7006.	8.0	69
59	Complexation-Tailored Morphology of Asymmetric Block Copolymer Membranes. ACS Applied Materials & Interfaces, 2013, 5, 7152-7159.	8.0	64
60	Membranes for direct methanol fuel cell based on modified heteropolyacids. Desalination, 2004, 162, 383-391.	8.2	63
61	Characterization of partially sulfonated polyoxadiazoles and oxadiazoleâ€“triazole copolymers. Journal of Membrane Science, 2007, 295, 121-129.	8.2	63
62	Zirconium oxide hybrid membranes for direct methanol fuel cellsâ€”Evaluation of transport properties. Journal of Membrane Science, 2006, 284, 137-144.	8.2	61
63	Electrochemical impedance studies of hybrids of perfluorosulfonic acid ionomer and silicon oxide by sol-gel reaction from solution. Journal of Electroanalytical Chemistry, 1998, 445, 39-45.	3.8	60
64	Microfluidic Integrated Organic Electrochemical Transistor with a Nanoporous Membrane for Amyloid-Î² Detection. ACS Nano, 2021, 15, 8130-8141.	14.6	59
65	Silver-Enhanced Block Copolymer Membranes with Biocidal Activity. ACS Applied Materials & Interfaces, 2014, 6, 18497-18501.	8.0	58
66	Porous poly(l-lactide) films obtained by immersion precipitation process: morphology, phase separation and culture of VERO cells. Polymer, 1999, 40, 3275-3289.	3.8	56
67	Hybrids of SiO2 and poly(amide 6-b-ethylene oxide). Polymer, 1997, 38, 5705-5712.	3.8	55
68	Hierarchically porous electrospun nanofibrous mats produced from intrinsically microporous fluorinated polyimide for the removal of oils and non-polar solvents. Environmental Science: Nano, 2020, 7, 1365-1372.	4.3	55
69	Palladium-Catalyzed Phosphonation of Polyphenylsulfone. Macromolecular Chemistry and Physics, 2003, 204, 61-67.	2.2	54
70	Crosslinked copolyazoles with a zwitterionic structure for organic solvent resistant membranes. Polymer Chemistry, 2015, 6, 543-554.	3.9	54
71	Cellulose hollow fibers for organic resistant nanofiltration. Journal of Membrane Science, 2019, 586, 151-161.	8.2	54
72	Mass transport of direct methanol fuel cell species in sulfonated poly(ether ether ketone) membranes. Electrochimica Acta, 2006, 51, 3699-3706.	5.2	53

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73	Porous polymeric membranes with thermal and solvent resistance. Journal of Membrane Science, 2017, 539, 187-196.	8.2	52
74	Ion exchange membranes derived from sulfonated polyaramides. Reactive and Functional Polymers, 2003, 57, 77-92.	4.1	51
75	Polyazole Hollow Fiber Membranes for Direct Contact Membrane Distillation. Industrial & Engineering Chemistry Research, 2013, 52, 10425-10429.	3.7	51
76	Highways for water molecules: Interplay between nanostructure and water vapor transport in block copolymer membranes. Journal of Membrane Science, 2019, 572, 641-649.	8.2	51
77	Silicone membranes with silica nanoparticles. Journal of Materials Science Letters, 1996, 15, 1139-1141.	0.5	50
78	Single-step synthesis of sulfonated polyoxadiazoles and their use as proton conducting membranes. Journal of Power Sources, 2008, 175, 49-59.	7.8	50
79	PVDF hollow fiber and nanofiber membranes for fresh water reclamation using membrane distillation. Journal of Materials Science, 2014, 49, 2045-2053.	3.7	49
80	Time-resolved GISAXS and cryo-microscopy characterization of block copolymer membrane formation. Polymer, 2014, 55, 1327-1332.	3.8	49
81	Oilâ€“Water Separation using Membranes Manufactured from Cellulose/Ionic Liquid Solutions. ACS Sustainable Chemistry and Engineering, 2019, 7, 5649-5659.	6.7	49
82	Poly(ether imide) membranes obtained from solution in cosolvent mixtures. Polymer, 1998, 39, 3411-3416.	3.8	47
83	Modified SPEEK membranes for direct ethanol fuel cell. Journal of Power Sources, 2010, 195, 4036-4042.	7.8	47
84	Nanostructured membranes and electrodes with sulfonic acid functionalized carbon nanotubes. Journal of Power Sources, 2011, 196, 911-919.	7.8	47
85	Fabrication of electrospun nanofibrous membranes for membrane distillation application. Desalination and Water Treatment, 2013, 51, 1337-1343.	1.0	47
86	Membrane biofouling in a wastewater nitrification reactor: Microbial succession from autotrophic colonization to heterotrophic domination. Water Research, 2016, 88, 337-345.	11.3	47
87	Green solvents for membrane manufacture: Recent trends and perspectives. Current Opinion in Green and Sustainable Chemistry, 2021, 28, 100427.	5.9	44
88	Polytriazole membranes with ultrathin tunable selective layer for crude oil fractionation. Science, 2022, 376, 1105-1110.	12.6	44
89	Outer-selective thin film composite (TFC) hollow fiber membranes for osmotic power generation. Journal of Membrane Science, 2016, 505, 157-166.	8.2	43
90	Gas transport properties of segmented poly(ether siloxane urethane urea) membranes. Journal of Membrane Science, 2006, 281, 747-753.	8.2	42

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91	Mixed conductive blends of SPEEK/PANI. Solid State Ionics, 2005, 176, 1411-1417.	2.7	41
92	Catalytically active CNTâ€“polymer-membrane assemblies: From synthesis to application. Journal of Membrane Science, 2008, 321, 123-130.	8.2	41
93	Membrane manufacture for peptide separation. Green Chemistry, 2016, 18, 5151-5159.	9.0	41
94	Temporal changes in extracellular polymeric substances on hydrophobic and hydrophilic membrane surfaces in a submerged membrane bioreactor. Water Research, 2016, 95, 27-38.	11.3	41
95	Sulfonated polynaphthalimides with benzimidazole pendant groups. Polymer, 2008, 49, 3875-3883.	3.8	40
96	Triple-bore hollow fiber membrane contactor for liquid desiccant based air dehumidification. Journal of Membrane Science, 2016, 514, 135-142.	8.2	40
97	Vacuum membrane distillation of liquid desiccants utilizing hollow fiber membranes. Separation and Purification Technology, 2018, 199, 57-63.	7.9	40
98	Green Synthesis of Thin-Film Composite Membranes for Organic Solvent Nanofiltration. ACS Sustainable Chemistry and Engineering, 2020, 8, 11541-11548.	6.7	40
99	Sulfonated silica-based electrolyte nanocomposite membranes. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2278-2298.	2.1	39
100	Block copolymer/homopolymer dual-layer hollow fiber membranes. Journal of Membrane Science, 2014, 472, 39-44.	8.2	39
101	Phosphonated and sulfonated polyhphenylsulfone membranes for fuel cell application. Journal of Membrane Science, 2006, 285, 206-213.	8.2	38
102	Development of polyoxadiazole nanocomposites for high temperature polymer electrolyte membrane fuel cells. Journal of Membrane Science, 2008, 322, 406-415.	8.2	38
103	Fluorinated polyoxadiazole for high-temperature polymer electrolyte membrane fuel cells. Journal of Membrane Science, 2008, 321, 114-122.	8.2	38
104	The effects of a co-solvent on fabrication of cellulose acetate membranes from solutions in 1-ethyl-3-methylimidazolium acetate. Journal of Membrane Science, 2016, 520, 540-549.	8.2	38
105	Hollow fiber membrane lumen modified by polyzwitterionic grafting. Journal of Membrane Science, 2017, 522, 1-11.	8.2	38
106	Polyoxadiazole hollow fibers for produced water treatment by direct contact membrane distillation. Desalination, 2018, 432, 32-39.	8.2	38
107	Krytoxâ€“Montmorilloniteâ€“NafionÂ® nanocomposite membrane for effective methanol crossover reduction in DMFCs. Solid State Ionics, 2007, 178, 1627-1635.	2.7	37
108	Strategies for Integrated Capture and Conversion of CO₂ from Dilute Flue Gases and the Atmosphere. ChemSusChem, 2021, 14, 1805-1820.	6.8	37

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109	Solvent and thermal resistant ultrafiltration membranes from alkyne-functionalized high-performance polymers. Journal of Membrane Science, 2018, 564, 361-371.	8.2	36
110	An organic electrochemical transistor integrated with a molecularly selective isoporous membrane for amyloid-Î² detection. Biosensors and Bioelectronics, 2019, 143, 111561.	10.1	36
111	Anomalous small-angle X-ray scattering characterization of composites based on sulfonated poly(ether ether ketone), zirconium phosphates, and zirconium oxide. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 567-575.	2.1	35
112	A Microfiltration Polymerâ€Based Hollowâ€Fiber Cathode as a Promising Advanced Material for Simultaneous Recovery of Energy and Water. Advanced Materials, 2016, 28, 9504-9511.	21.0	35
113	Fabrication of polyacrylonitrile hollow fiber membranes from ionic liquid solutions. Polymer Chemistry, 2016, 7, 113-124.	3.9	35
114	Cyclodextrin polymer networks decorated with subnanometer metal nanoparticles for high-performance low-temperature catalysis. Science Advances, 2019, 5, eaax6976.	10.3	35
115	Organic modification of layered silicates: structural and thermal characterizations. Journal of Non-Crystalline Solids, 2005, 351, 970-975.	3.1	34
116	Solid electrolytes based on poly(amide 6-b-ethylene oxide). Solid State Ionics, 1996, 91, 123-130.	2.7	32
117	NafionÂ®/ODF-silica composite membranes for medium temperature proton exchange membrane fuel cells. Journal of Power Sources, 2014, 246, 950-959.	7.8	32
118	Ionic liquids as self-assembly guide for the formation of nanostructured block copolymer membranes. Journal of Membrane Science, 2015, 492, 568-577.	8.2	32
119	Polyethersulfone flat sheet and hollow fiber membranes from solutions in ionic liquids. Journal of Membrane Science, 2017, 539, 161-171.	8.2	32
120	Can fouling in membranes be ever defeated?. Current Opinion in Chemical Engineering, 2020, 28, 90-95.	7.8	32
121	3D Membrane Imaging and Porosity Visualization. Industrial & Engineering Chemistry Research, 2016, 55, 3689-3695.	3.7	31
122	Crosslinked polytriazole membranes for organophilic filtration. Journal of Membrane Science, 2017, 528, 264-272.	8.2	31
123	Artificial 3D hierarchical and isotropic porous polymeric materials. Science Advances, 2018, 4, eaat0713.	10.3	31
124	Synthesis and characterization of flexible polyoxadiazole films through cyclodehydration of polyhydrazides. Polymer, 2003, 44, 3633-3639.	3.8	29
125	One-pot synthesis of high molecular weight sulfonated poly(oxadiazoleâ€“triazole) copolymers for proton conductive membranes. Journal of Membrane Science, 2008, 319, 14-22.	8.2	29
126	Porous polyoxadiazole membranes for harsh environment. Journal of Membrane Science, 2013, 445, 127-134.	8.2	29

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127	Hollow ZIF-8 Nanoworms from Block Copolymer Templates. Scientific Reports, 2015, 5, 15275.	3.3	29
128	How Do Polyethylene Glycol and Poly(sulfobetaine) Hydrogel Layers on Ultrafiltration Membranes Minimize Fouling and Stay Stable in Cleaning Chemicals?. Industrial & Engineering Chemistry Research, 2017, 56, 6785-6795.	3.7	29
129	Stable Graphene Oxide Cross-Linked Membranes for Organic Solvent Nanofiltration. Industrial & Engineering Chemistry Research, 2019, 58, 23106-23113.	3.7	29
130	Title is missing!. Acta Polymerica, 1997, 48, 193-198.	0.9	28
131	Hydrophobic Hyflon AD/Poly(vinylidene fluoride) Membranes for Butanol Dehydration via Pervaporation. Industrial & Engineering Chemistry Research, 2015, 54, 11180-11187.	3.7	28
132	Synthesis of highly porous poly(tert-butyl acrylate)-b-polysulfone-b-poly(tert-butyl acrylate) asymmetric membranes. Polymer Chemistry, 2016, 7, 3076-3089.	3.9	28
133	Engineering membranes with macrocycles for precise molecular separations. Journal of Materials Chemistry A, 2021, 9, 18102-18128.	10.3	28
134	Ultrafiltration membranes from poly(ether sulfonamide)/poly(ether imide) blends. Journal of Membrane Science, 1993, 79, 83-91.	8.2	27
135	Permeability and Conductivity Studies on Ionomer-Polysilsesquioxane Hybrid Materials. Macromolecular Chemistry and Physics, 2006, 207, 336-341.	2.2	27
136	Modification of proton conductive polymer membranes with phosphonated polysilsesquioxanes. Journal of Membrane Science, 2008, 325, 559-569.	8.2	27
137	Poly(acrylic acid-co-4-vinylimidazole)/Sulfonated poly(ether ether ketone) blend membranes: A role of polymer chain with proton acceptor and donor for enhancing proton transfer in anhydrous system. International Journal of Hydrogen Energy, 2011, 36, 10384-10391.	7.1	27
138	Spray-coated graphene oxide hollow fibers for nanofiltration. Journal of Membrane Science, 2020, 606, 118006.	8.2	27
139	Mixed conductive membrane: Aniline polymerization in an acid SPEEK matrix. Journal of Membrane Science, 2006, 279, 70-75.	8.2	26
140	Thin porphyrin composite membranes with enhanced organic solvent transport. Journal of Membrane Science, 2018, 563, 684-693.	8.2	26
141	Preparation of PEEK Membranes with Excellent Stability Using Common Organic Solvents. Industrial & Engineering Chemistry Research, 2020, 59, 5218-5226.	3.7	26
142	Liquid desiccant dehumidification and regeneration process to meet cooling and freshwater needs of desert greenhouses. Desalination and Water Treatment, 2016, 57, 23430-23442.	1.0	25
143	Ball milling as an important pretreatment technique in lignocellulose biorefineries: a review. Biomass Conversion and Biorefinery, 2023, 13, 15593-15616.	4.6	25
144	On the cooccurrence of demixing and thermoreversible gelation of polymer solutions. 1. Experimental observations. Macromolecules, 1987, 20, 1943-1947.	4.8	24

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145	Proton exchange membranes for direct methanol fuel cells: Properties critical study concerning methanol crossover and proton conductivity. Journal of Membrane Science, 2006, 276, 126-134.	8.2	24
146	Synthesis and Properties of Novel Polyimides Bearing Sulfonated Benzimidazole Pendant Groups. Macromolecular Rapid Communications, 2007, 28, 616-622.	3.9	24
147	Proton Conducting Membranes Based on Benzimidazole Sulfonic Acid Doped Sulfonated Poly(Oxadiazoleâ€“Triazole) Copolymer for Low Humidity Operation. Fuel Cells, 2008, 8, 209-216.	2.4	24
148	Investigation of the role of benzimidazole-based model compounds on thermal stability and anhydrous proton conductivity of sulfonated poly(ether ether ketone). Solid State Ionics, 2009, 180, 738-745.	2.7	24
149	Self-assembled block copolymer membranes: From basic research to large-scale manufacturing. Journal of Materials Research, 2013, 28, 2661-2665.	2.6	24
150	Design of block copolymer membranes using segregation strength trend lines. Molecular Systems Design and Engineering, 2016, 1, 278-289.	3.4	24
151	Graphene Oxide Liquid Crystal Membranes in Protic Ionic Liquid for Nanofiltration. ACS Applied Nano Materials, 2018, 1, 4661-4670.	5.0	24
152	Rapid fabrication of fluorinated covalent organic polymer membranes for organic solvent nanofiltration. Journal of Membrane Science, 2022, 648, 120345.	8.2	24
153	Dual-skinned polyamide/poly(vinylidene fluoride)/cellulose acetate membranes with embedded woven. Journal of Membrane Science, 2016, 520, 840-849.	8.2	23
154	Ethylene glycol as bore fluid for hollow fiber membrane preparation. Journal of Membrane Science, 2017, 533, 171-178.	8.2	23
155	Hollow Fibers with Encapsulated Green Amino Acid-Based Ionic Liquids for Dehydration. ACS Sustainable Chemistry and Engineering, 2020, 8, 17763-17771.	6.7	23
156	Enzyme catalysis coupled with artificial membranes towards process intensification in biorefinery- a review. Bioresource Technology, 2021, 335, 125248.	9.6	23
157	Hybrid membranes based on SiO2/polyether-b-polyamide: Morphology and applications. Journal of Applied Polymer Science, 2001, 82, 178-185.	2.6	22
158	Synthesis and characterization of new sulfonated poly(arylene ether 1,3,4-oxadiazole)s. Reactive and Functional Polymers, 2004, 61, 171-182.	4.1	22
159	Exploration of the Synergy Between 2D Nanosheets and a Non-2D Filler in Mixed Matrix Membranes for Gas Separation. Frontiers in Chemistry, 2020, 8, 58.	3.6	22
160	Nanofabrication of Isoporous Membranes for Cell Fractionation. Scientific Reports, 2020, 10, 6138.	3.3	22
161	Fluorinated thin-film composite membranes for nonpolar organic solvent nanofiltration. Separation and Purification Technology, 2021, 279, 119777.	7.9	22
162	Selfâ€Assembled Isoporous Block Copolymer Membranes with Tuned Pore Sizes. Angewandte Chemie, 2014, 126, 10236-10240.	2.0	21

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163	Antibiofilm effect enhanced by modification of 1,2,3-triazole and palladium nanoparticles on polysulfone membranes. Scientific Reports, 2016, 6, 24289.	3.3	21
164	Organic solvent and thermal resistant polytriazole membranes with enhanced mechanical properties cast from solutions in non-toxic solvents. Journal of Membrane Science, 2020, 597, 117634.	8.2	21
165	Membranes in Fuel Cells. Journal of Membrane Science, 2001, 185, 1.	8.2	20
166	Preparation of 4(5)-vinylimidazole-co-acrylic acid copolymer and thermal performances related to applicability as PEM fuel cells. Polymer Degradation and Stability, 2008, 93, 1389-1395.	5.8	20
167	Topology and Shape Control for Assemblies of Block Copolymer Blends in Solution. Macromolecules, 2015, 48, 8036-8044.	4.8	20
168	Oriented Zeolitic Imidazolate Framework (ZIF) Nanocrystal Films for Molecular Separation Membranes. ACS Applied Nano Materials, 2020, 3, 3839-3846.	5.0	20
169	COMPOSITE MEMBRANES WITH CROSS-LINKED MATRIMID SELECTIVE LAYER FOR GAS SEPARATION. Environmental Engineering and Management Journal, 2008, 7, 653-659.	0.6	20
170	Low fouling polysulfone ultrafiltration membrane via click chemistry. Journal of Applied Polymer Science, 2015, 132, .	2.6	19
171	Artificial membranes with selective nanochannels for protein transport. Polymer Chemistry, 2016, 7, 6189-6201.	3.9	19
172	Functionalized Nanochannels from Selfâ€Assembled and Photomodified Poly(Styreneâ€bâ€Butadieneâ€bâ€Styrene). Small, 2018, 14, e1701885.	10.0	19
173	Diffusion-induced in situ growth of covalent organic frameworks for composite membranes. Journal of Materials Chemistry A, 2019, 7, 25802-25807.	10.3	19
174	Protonation of Sulfonated Poly(4,4â€²-diphenylether-1,3,4-oxadiazole) Membranes. Macromolecular Chemistry and Physics, 2007, 208, 467-473.	2.2	18
175	Hollow fibre membrane-based liquid desiccant humidity control for controlled environment agriculture. Biosystems Engineering, 2019, 183, 47-57.	4.3	18
176	NEXARTM-coated hollow fibers for air dehumidification. Journal of Membrane Science, 2020, 614, 118450.	8.2	18
177	Tunable membranes incorporating artificial water channels for high-performance brackish/low-salinity water reverse osmosis desalination. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	18
178	Adhesion and morphology of PVDF/PMMA and compatibilized PVDF/PS interfaces. Polymer, 1991, 32, 990-998.	3.8	17
179	Composite nanofiltration membranes prepared by in situ polycondensation of amines in a poly(ethylene oxide-b-amide) layer. Journal of Membrane Science, 1997, 135, 179-186.	8.2	17
180	3D Analysis of Ordered Porous Polymeric Particles using Complementary Electron Microscopy Methods. Scientific Reports, 2019, 9, 13987.	3.3	17

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