Michael D Guiver

List of Publications by Citations

Source: https://exaly.com/author-pdf/8435353/michael-d-guiver-publications-by-citations.pdf

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

268
papers
19,927
citations
h-index

275
ext. papers
22,451
ext. citations
9.8
avg, IF
L-index

#	Paper	IF	Citations
268	Synthesis and characterization of sulfonated poly(ether ether ketone) for proton exchange membranes. <i>Journal of Membrane Science</i> , 2004 , 229, 95-106	9.6	771
267	Proton conducting composite membranes from polyether ether ketone and heteropolyacids for fuel cell applications. <i>Journal of Membrane Science</i> , 2000 , 173, 17-34	9.6	737
266	Polymer nanosieve membranes for CO2-capture applications. <i>Nature Materials</i> , 2011 , 10, 372-5	27	647
265	Sulfonated hydrocarbon membranes for medium-temperature and low-humidity proton exchange membrane fuel cells (PEMFCs). <i>Progress in Polymer Science</i> , 2011 , 36, 1443-1498	29.6	530
264	Hydrocarbon-Based Polymer Electrolyte Membranes: Importance of Morphology on Ion Transport and Membrane Stability. <i>Chemical Reviews</i> , 2017 , 117, 4759-4805	68.1	525
263	Advances in high permeability polymer-based membrane materials for CO2 separations. <i>Energy and Environmental Science</i> , 2016 , 9, 1863-1890	35.4	475
262	Polysulfone/silica nanoparticle mixed-matrix membranes for gas separation. <i>Journal of Membrane Science</i> , 2008 , 314, 123-133	9.6	474
261	Advances in high permeability polymeric membrane materials for CO2 separations. <i>Energy and Environmental Science</i> , 2012 , 5, 7306-7322	35.4	391
2 60	Ion Transport by Nanochannels in Ion-Containing Aromatic Copolymers. <i>Macromolecules</i> , 2014 , 47, 2175	; - ₹\$98	332
259	Aromatic Poly(ether ketone)s with Pendant Sulfonic Acid Phenyl Groups Prepared by a Mild Sulfonation Method for Proton Exchange Membranes [] Macromolecules, 2007, 40, 1934-1944	5.5	322
258	Proton conducting membranes based on cross-linked sulfonated poly(ether ether ketone) (SPEEK). <i>Journal of Membrane Science</i> , 2004 , 233, 93-99	9.6	304
257	Nanocrack-regulated self-humidifying membranes. <i>Nature</i> , 2016 , 532, 480-3	50.4	281
256	Sulfonated Poly(aryl ether ketone)s Containing the Hexafluoroisopropylidene Diphenyl Moiety Prepared by Direct Copolymerization, as Proton Exchange Membranes for Fuel Cell Application <i>Macromolecules</i> , 2004 , 37, 7960-7967	5.5	274
255	Nanostructured Ion-Exchange Membranes for Fuel Cells: Recent Advances and Perspectives. <i>Advanced Materials</i> , 2015 , 27, 5280-95	24	273
254	Polymers of Intrinsic Microporosity Containing Trifluoromethyl and Phenylsulfone Groups as Materials for Membrane Gas Separation. <i>Macromolecules</i> , 2008 , 41, 9656-9662	5.5	244
253	Gas transport behavior of mixed-matrix membranes composed of silica nanoparticles in a polymer of intrinsic microporosity (PIM-1). <i>Journal of Membrane Science</i> , 2010 , 346, 280-287	9.6	223
252	Pure- and mixed-gas permeation properties of a microporous spirobisindane-based ladder polymer (PIM-1). <i>Journal of Membrane Science</i> , 2009 , 333, 125-131	9.6	214

(2007-2009)

251	High-Performance Carboxylated Polymers of Intrinsic Microporosity (PIMs) with Tunable Gas Transport Properties [[Macromolecules, 2009, 42, 6038-6043]	5.5	209
250	Casting solvent interactions with sulfonated poly(ether ether ketone) during proton exchange membrane fabrication. <i>Journal of Membrane Science</i> , 2003 , 219, 113-121	9.6	206
249	Properties of SPEEK based PEMs for fuel cell application. <i>Catalysis Today</i> , 2003 , 82, 213-222	5.3	206
248	Toward Improved Conductivity of Sulfonated Aromatic Proton Exchange Membranes at Low Relative Humidity. <i>Chemistry of Materials</i> , 2008 , 20, 5636-5642	9.6	198
247	Materials science. Polymer rigidity improves microporous membranes. <i>Science</i> , 2013 , 339, 284-5	33.3	188
246	Fluorene-Based Poly(arylene ether sulfone)s Containing Clustered Flexible Pendant Sulfonic Acids as Proton Exchange Membranes. <i>Macromolecules</i> , 2011 , 44, 7296-7306	5.5	187
245	Intrinsically Microporous Soluble Polyimides Incorporating Trgers Base for Membrane Gas Separation. <i>Macromolecules</i> , 2014 , 47, 3254-3262	5.5	185
244	Guanidinium-Functionalized Anion Exchange Polymer Electrolytes via Activated Fluorophenyl-Amine Reaction. <i>Chemistry of Materials</i> , 2011 , 23, 3795-3797	9.6	179
243	Highly Fluorinated Comb-Shaped Copolymers as Proton Exchange Membranes (PEMs): Improving PEM Properties Through Rational Design. <i>Advanced Functional Materials</i> , 2006 , 16, 1814-1822	15.6	157
242	A highly permeable graphene oxide membrane with fast and selective transport nanochannels for efficient carbon capture. <i>Energy and Environmental Science</i> , 2016 , 9, 3107-3112	35.4	155
241	Harnessing Filler Materials for Enhancing Biogas Separation Membranes. <i>Chemical Reviews</i> , 2018 , 118, 8655-8769	68.1	154
240	Phenyltrimethylammonium Functionalized Polysulfone Anion Exchange Membranes Macromolecules, 2012 , 45, 2411-2419	5.5	152
239	Designing the next generation of proton-exchange membrane fuel cells. <i>Nature</i> , 2021 , 595, 361-369	50.4	152
238	Static protein adsorption, ultrafiltration behavior and cleanability of hydrophilized polysulfone membranes. <i>Journal of Membrane Science</i> , 1999 , 158, 63-75	9.6	150
237	Highly Conductive Anion-Exchange Membranes from Microporous Trger's Base Polymers. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11499-502	16.4	146
236	Comb-Shaped Poly(arylene ether sulfone)s as Proton Exchange Membranes[] <i>Macromolecules</i> , 2008 , 41, 2126-2134	5.5	142
235	Enhancement of proton transport by nanochannels in comb-shaped copoly(arylene ether sulfone)s. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9158-61	16.4	140
234	Proton exchange membranes modified with sulfonated silica nanoparticles for direct methanol fuel cells?. <i>Journal of Membrane Science</i> , 2007 , 296, 21-28	9.6	138

233	Copoly(arylene ether)s Containing Pendant Sulfonic Acid Groups as Proton Exchange Membranes RCC Publication No. 50899 <i>Macromolecules</i> , 2009 , 42, 957-963	5.5	136
232	Synthesis of Copoly(aryl ether ether nitrile)s Containing Sulfonic Acid Groups for PEM Application Macromolecules, 2005 , 38, 3237-3245	5.5	134
231	Tangential flow streaming potential measurements: Hydrodynamic cell characterization and zeta potentials of carboxylated polysulfone membranes. <i>Journal of Membrane Science</i> , 1998 , 145, 211-222	9.6	131
230	Polymers of Intrinsic Microporosity Derived from Novel Disulfone-Based Monomers Macromolecules, 2009 , 42, 6023-6030	5.5	127
229	A new class of highly-conducting polymer electrolyte membranes: Aromatic ABA triblock copolymers. <i>Energy and Environmental Science</i> , 2012 , 5, 5346-5355	35.4	121
228	Sulfonated poly(aryl ether ketone)s containing naphthalene moieties obtained by direct copolymerization as novel polymers for proton exchange membranes. <i>Journal of Polymer Science Part A</i> , 2004 , 42, 2866-2876	2.5	121
227	Azide-based cross-linking of polymers of intrinsic microporosity (PIMs) for condensable gas separation. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 631-6	4.8	118
226	Highly stable anion exchange membranes based on quaternized polypropylene. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12284-12296	13	113
225	Metal-induced ordered microporous polymers for fabricating large-area gas separation membranes. <i>Nature Materials</i> , 2019 , 18, 163-168	27	113
224	Polymers of Intrinsic Microporosity with Dinaphthyl and Thianthrene Segments[] <i>Macromolecules</i> , 2010 , 43, 8580-8587	5.5	110
223	Influence of Intermolecular Interactions on the Observable Porosity in Intrinsically Microporous Polymers. <i>Macromolecules</i> , 2011 , 44, 1763-1767	5.5	109
222	Preparation of ion exchange membranes for fuel cell based on crosslinked poly(vinyl alcohol) with poly(styrene sulfonic acid-co-maleic acid). <i>Journal of Membrane Science</i> , 2006 , 281, 156-162	9.6	109
221	Structural characterization and gas-transport properties of brominated matrimid polyimide. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 4193-4204	2.5	109
220	Decarboxylation-Induced Cross-Linking of Polymers of Intrinsic Microporosity (PIMs) for Membrane Gas Separation. <i>Macromolecules</i> , 2012 , 45, 5134-5139	5.5	108
219	Blend membranes based on sulfonated poly(ether ether ketone) and polysulfone bearing benzimidazole side groups for proton exchange membrane fuel cells. <i>Electrochemistry Communications</i> , 2006 , 8, 1386-1390	5.1	107
218	Synthesis and characterization of poly(aryl ether ketone) copolymers containing (hexafluoroisopropylidene)-diphenol moiety as proton exchange membrane materials. <i>Polymer</i> , 2005 , 46, 3257-3263	3.9	107
217	Towards high conductivity in anion-exchange membranes for alkaline fuel cells. <i>ChemSusChem</i> , 2013 , 6, 1376-83	8.3	105
216	High-strength, soluble polyimide membranes incorporating TrBerB Base for gas separation. Journal of Membrane Science, 2016, 504, 55-65	9.6	103

(2008-2008)

215	Linear High Molecular Weight Ladder Polymer via Fast Polycondensation of 5,5?,6,6?-Tetrahydroxy-3,3,3?,3?-tetramethylspirobisindane with 1,4-Dicyanotetrafluorobenzene. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 783-788	4.8	103
214	Synthesis of Poly(arylene ether ether ketone ketone) Copolymers Containing Pendant Sulfonic Acid Groups Bonded to Naphthalene as Proton Exchange Membrane Materials [] Macromolecules, 2004, 37, 6748-6754	5.5	103
213	Stable Superhydrophobic Ceramic-Based Carbon Nanotube Composite Desalination Membranes. <i>Nano Letters</i> , 2018 , 18, 5514-5521	11.5	102
212	Sulfonation of poly(phthalazinones) with fuming sulfuric acid mixtures for proton exchange membrane materials. <i>Journal of Membrane Science</i> , 2003 , 227, 39-50	9.6	101
211	1,2,3-Triazolium-Based Poly(2,6-Dimethyl Phenylene Oxide) Copolymers as Anion Exchange Membranes. <i>ACS Applied Materials & amp; Interfaces</i> , 2016 , 8, 4651-60	9.5	98
210	Polymer Electrolyte Membranes Derived from New Sulfone Monomers with Pendent Sulfonic Acid Groups[] <i>Macromolecules</i> , 2010 , 43, 9810-9820	5.5	97
209	Synthesis and characterization of sulfonated poly(phthalazinone ether ketone) for proton exchange membrane materials. <i>Journal of Polymer Science Part A</i> , 2003 , 41, 497-507	2.5	96
208	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO Separations. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14246-14251	16.4	95
207	Durable Sulfonated Poly(arylene sulfide sulfone nitrile)s Containing Naphthalene Units for Direct Methanol Fuel Cells (DMFCs). <i>Macromolecules</i> , 2013 , 46, 3452-3460	5.5	92
206	Properties of PEMs based on cross-linked sulfonated poly(ether ether ketone). <i>Journal of Membrane Science</i> , 2006 , 285, 306-316	9.6	91
205	Synthesis and characterization of carboxylated polysulfones. <i>British Polymer Journal</i> , 1990 , 23, 29-39		91
204	Phase separation in polysulfone/solvent/water and polyethersulfone/solvent/water systems. Journal of Membrane Science, 1991 , 59, 219-227	9.6	90
203	Densely Sulfophenylated Segmented Copoly(arylene ether sulfone) Proton Exchange Membranes. <i>Macromolecules</i> , 2011 , 44, 4901-4910	5.5	89
202	Constructing efficient ion nanochannels in alkaline anion exchange membranes by the in situ assembly of a poly(ionic liquid) in metalBrganic frameworks. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2340-2348	13	86
201	Poly(arylene ether sulfone) proton exchange membranes with flexible acid side chains. <i>Journal of Membrane Science</i> , 2012 , 405-406, 68-78	9.6	86
200	Practical implementation of bis-six-membered N-cyclic quaternary ammonium cations in advanced anion exchange membranes for fuel cells: Synthesis and durability. <i>Journal of Membrane Science</i> , 2019 , 578, 239-250	9.6	86
199	Realizing small-flake graphene oxide membranes for ultrafast size-dependent organic solvent nanofiltration. <i>Science Advances</i> , 2020 , 6, eaaz9184	14.3	85
198	Linear High Molecular Weight Ladder Polymers by Optimized Polycondensation of Tetrahydroxytetramethylspirobisindane and 1,4-Dicyanotetrafluorobenzene□ <i>Macromolecules</i> , 2008 , 41, 7411-7417	5.5	85

197	Low-swelling proton-conducting copoly(aryl ether nitrile)s containing naphthalene structure with sulfonic acid groups meta to the ether linkage. <i>Polymer</i> , 2006 , 47, 808-816	3.9	85
196	Influence of silica content in sulfonated poly(arylene ether ether ketone ketone) (SPAEEKK) hybrid membranes on properties for fuel cell application. <i>Polymer</i> , 2006 , 47, 7871-7880	3.9	84
195	Sulfonated copoly(phthalazinone ether ketone nitrile)s as proton exchange membrane materials. Journal of Membrane Science, 2006 , 278, 26-34	9.6	84
194	Tunable Nanochannels along Graphene Oxide/Polymer CoreBhell Nanosheets to Enhance Proton Conductivity. <i>Advanced Functional Materials</i> , 2015 , 25, 7502-7511	15.6	83
193	Morphological transformation during cross-linking of a highly sulfonated poly(phenylene sulfide nitrile) random copolymer. <i>Energy and Environmental Science</i> , 2012 , 5, 9795	35.4	80
192	Comparison of PEM Properties of Copoly(aryl ether ether nitrile)s Containing Sulfonic Acid Bonded to Naphthalene in Structurally Different Ways[]Macromolecules, 2007, 40, 1512-1520	5.5	80
191	Polymers of intrinsic microporosity (PIMs) substituted with methyl tetrazole. <i>Polymer</i> , 2012 , 53, 4367-4	37.2	77
190	AcidBase blend membranes based on 2-amino-benzimidazole and sulfonated poly(ether ether ketone) for direct methanol fuel cells. <i>Electrochemistry Communications</i> , 2007 , 9, 905-910	5.1	77
189	High performance nitrile copolymers for polymer electrolyte membrane fuel cells. <i>Journal of Membrane Science</i> , 2008 , 321, 199-208	9.6	76
188	Chemical Modification of Polysulfones II: An Efficient Method for Introducing Primary Amine Groups onto the Aromatic Chain. <i>Macromolecules</i> , 1995 , 28, 7612-7621	5.5	75
187	Alkaline Anion-Exchange Membranes Containing Mobile Ion Shuttles. <i>Advanced Materials</i> , 2016 , 28, 346	57 <u>-</u> 72	72
186	Phase separation and water channel formation in sulfonated block copolyimide. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12036-45	3.4	71
185	Effects of Brominating Matrimid Polyimide on the Physical and Gas Transport Properties of Derived Carbon Membranes. <i>Macromolecules</i> , 2005 , 38, 10042-10049	5.5	70
184	Magnetic field alignment of stable proton-conducting channels in an electrolyte membrane. <i>Nature Communications</i> , 2019 , 10, 842	17.4	70
183	Poly(aryl ether ketone)s with carboxylic acid groups: synthesis, sulfonation and crosslinking. Journal of Materials Chemistry, 2008 , 18, 4675		69
182	Synthesis, cross-linking and carbonization of co-polyimides containing internal acetylene units for gas separation. <i>Journal of Membrane Science</i> , 2007 , 302, 254-264	9.6	69
181	Polyethylene-based radiation grafted anion-exchange membranes for alkaline fuel cells. <i>Journal of Membrane Science</i> , 2013 , 441, 148-157	9.6	68
180	Hydrocarbon/hydrogen mixed-gas permeation properties of PIM-1, an amorphous microporous spirobisindane polymer. <i>Journal of Membrane Science</i> , 2009 , 338, 1-4	9.6	68

(2004-2006)

179	Synthesis of highly fluorinated poly(arylene ether)s copolymers for proton exchange membrane materials?. <i>Journal of Membrane Science</i> , 2006 , 281, 111-120	9.6	68
178	Bioinspired Ultrastrong Solid Electrolytes with Fast Proton Conduction along 2D Channels. <i>Advanced Materials</i> , 2017 , 29, 1605898	24	67
177	Soluble, microporous, Trger's Base copolyimides with tunable membrane performance for gas separation. <i>Chemical Communications</i> , 2016 , 52, 3817-20	5.8	66
176	Using silica nanoparticles for modifying sulfonated poly(phthalazinone ether ketone) membrane for direct methanol fuel cell: A significant improvement on cell performance. <i>Journal of Power Sources</i> , 2006 , 155, 111-117	8.9	66
175	Polyamide thin-film composite membranes based on carboxylated polysulfone microporous support membranes for forward osmosis. <i>Journal of Membrane Science</i> , 2013 , 445, 220-227	9.6	65
174	AcidBase blend membranes consisting of sulfonated poly(ether ether ketone) and 5-amino-benzotriazole tethered polysulfone for DMFC. <i>Journal of Membrane Science</i> , 2010 , 362, 289-29	7 9.6	65
173	Thin film composite (TFC) membranes with improved thermal stability from sulfonated poly(phthalazinone ether sulfone ketone) (SPPESK). <i>Journal of Membrane Science</i> , 2002 , 207, 189-197	9.6	65
172	Functional group polysulphones by bromination-metalation. <i>Polymer</i> , 1989 , 30, 1137-1142	3.9	64
171	Highly Conductive and Mechanically Stable Imidazole-Rich Cross-Linked Networks for High-Temperature Proton Exchange Membrane Fuel Cells. <i>Chemistry of Materials</i> , 2020 , 32, 1182-1191	9.6	64
170	Mechanically Tough, Thermally Rearranged (TR) Random/Block Poly(benzoxazole-co-imide) Gas Separation Membranes. <i>Macromolecules</i> , 2015 , 48, 5286-5299	5.5	63
169	Effect of Isomerism on Molecular Packing and Gas Transport Properties of Poly(benzoxazole-co-imide)s. <i>Macromolecules</i> , 2014 , 47, 7947-7957	5.5	63
168	Naphthalene-based poly(arylene ether ketone) anion exchange membranes. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6481	13	63
167	Direct copolymerization of sulfonated poly(phthalazinone arylene ether)s for proton-exchange-membrane materials. <i>Journal of Polymer Science Part A</i> , 2003 , 41, 2731-2742	2.5	63
166	Proton-conducting membranes from poly(ether sulfone)s grafted with sulfoalkylamine. <i>Journal of Membrane Science</i> , 2013 , 427, 443-450	9.6	62
165	Copolymers of Intrinsic Microporosity Based on 2,2',3,3'-Tetrahydroxy-1,1'-dinaphthyl. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 584-8	4.8	62
164	Azide-assisted self-crosslinking of highly ion conductive anion exchange membranes. <i>Journal of Membrane Science</i> , 2016 , 509, 48-56	9.6	60
163	Effect of methanol treatment on gas sorption and transport behavior of intrinsically microporous polyimide membranes incorporating Trger?s base. <i>Journal of Membrane Science</i> , 2015 , 480, 104-114	9.6	59
162	Structural determination of Torlon 4000T polyamidelimide by NMR spectroscopy. <i>Polymer</i> , 2004 , 45, 1111-1117	3.9	58

161	Thermostable ultrafiltration and nanofiltration membranes from sulfonated poly(phthalazinone ether sulfone ketone). <i>Journal of Membrane Science</i> , 2001 , 188, 195-203	9.6	57
160	Chemical Modification of Polysulfones: A Facile Method of Preparing Azide Derivatives from Lithiated Polysulfone Intermediates. <i>Macromolecules</i> , 1995 , 28, 294-301	5.5	57
159	Fluorenyl-containing sulfonated poly(aryl ether ether ketone ketone)s (SPFEEKK) for fuel cell applications. <i>Journal of Membrane Science</i> , 2006 , 280, 54-64	9.6	56
158	The modification of polysulfone by metalation. <i>Journal of Polymer Science, Polymer Letters Edition</i> , 1988 , 26, 123-127		56
157	A clustered sulfonated poly(ether sulfone) based on a new fluorene-based bisphenol monomer. Journal of Materials Chemistry, 2012 , 22, 25093		55
156	Fluorinated Poly(aryl ether) Containing a 4-Bromophenyl Pendant Group and its Phosphonated Derivative. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1411-1417	4.8	55
155	Carboxylated polysulfone membranes having a chiral recognition site induced by an alternative molecular imprinting technique. <i>Polymer Bulletin</i> , 1998 , 40, 517-524	2.4	53
154	Enhancement of Proton Transport by Nanochannels in Comb-Shaped Copoly(arylene ether sulfone)s. <i>Angewandte Chemie</i> , 2011 , 123, 9324-9327	3.6	52
153	Synthesis and characterization of sulfonated poly(phthalazinone ether sulfone ketone) for ultrafiltration and nanofiltration membranes. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 1685-1692	2.9	50
152	Dimensionally-stable phosphoric aciddloped polybenzimidazoles for high-temperature proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2016 , 336, 391-400	8.9	49
151	Chiral separation with molecularly imprinted polysulfone-aldehyde derivatized nanofiber membranes?. <i>Journal of Membrane Science</i> , 2012 , 401-402, 89-96	9.6	49
150	Increases in the proton conductivity and selectivity of proton exchange membranes for direct methanol fuel cells by formation of nanocomposites having proton conducting channels. <i>Journal of Power Sources</i> , 2009 , 194, 206-213	8.9	48
149	Exploring Torlon/P84 co-polyamide-imide blended hollow fibers and their chemical cross-linking modifications for pervaporation dehydration of isopropanol. <i>Separation and Purification Technology</i> , 2008 , 61, 404-413	8.3	48
148	Measurements of PEM conductivity by impedance spectroscopy. Solid State Ionics, 2008, 179, 619-624	3.3	47
147	A Highly Permeable Aligned Montmorillonite Mixed-Matrix Membrane for CO2 Separation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9321-5	16.4	47
146	Simulation of membrane-based CO2 capture in a coal-fired power plant. <i>Journal of Membrane Science</i> , 2013 , 427, 451-459	9.6	45
145	Novel approaches to fabricate carbon molecular sieve membranes based on chemical modified and solvent treated polyimides. <i>Microporous and Mesoporous Materials</i> , 2004 , 73, 151-160	5.3	45
144	Mixed gas sorption in glassy polymeric membranes. III. CO2/CH4 mixtures in a polymer of intrinsic microporosity (PIM-1): Effect of temperature. <i>Journal of Membrane Science</i> , 2017 , 524, 746-757	9.6	44

(2020-2010)

143	Enhanced thermo-oxidative stability of sulfophenylated poly(ether sulfone)s. <i>Polymer</i> , 2010 , 51, 403-41	3 3.9	44
142	Functionalized polysulfone membranes by heterogeneous lithiation. <i>Journal of Applied Polymer Science</i> , 1993 , 48, 1597-1606	2.9	44
141	Mixed gas sorption in glassy polymeric membranes: II. CO2/CH4 mixtures in a polymer of intrinsic microporosity (PIM-1). <i>Journal of Membrane Science</i> , 2014 , 459, 264-276	9.6	43
140	A Novel Bisphenol Monomer with Grafting Capability and the Resulting Poly(arylene ether sulfone)s Macromolecules, 2006, 39, 6990-6996	5.5	42
139	Preparation and Characterization of Polysulfones Containing Both Hexafluoroisopropylidene and Trimethylsilyl Groups as Gas Separation Membrane Materials [Macromolecules, 2004, 37, 1403-1410]	5.5	42
138	Poly(phenylene oxide)s incorporating N-spirocyclic quaternary ammonium cation/cation strings for anion exchange membranes. <i>Journal of Membrane Science</i> , 2020 , 595, 117507	9.6	42
137	Carbon hollow fiber membranes for a molecular sieve with precise-cutoff ultramicropores for superior hydrogen separation. <i>Nature Communications</i> , 2021 , 12, 268	17.4	42
136	Highly fluorinated comb-shaped copolymer as proton exchange membranes (PEMs): Fuel cell performance. <i>Journal of Power Sources</i> , 2008 , 182, 100-105	8.9	41
135	Membrane-Based Olefin/Paraffin Separations. Advanced Science, 2020, 7, 2001398	13.6	39
134	High performance direct methanol fuel cells based on acidBase blend membranes containing benzotriazole. <i>Electrochemistry Communications</i> , 2010 , 12, 607-610	5.1	38
133	Radiation-induced grafting of styrene onto ultra-high molecular weight polyethylene powder and subsequent film fabrication for application as polymer electrolyte membranes: I. Influence of grafting conditions. <i>Journal of Membrane Science</i> , 2008 , 325, 964-972	9.6	38
132	Functionalized Polysulfones: Methods for Chemical Modification and Membrane Applications. <i>ACS Symposium Series</i> , 1999 , 137-161	0.4	38
131	Radiation-induced grafting of styrene onto ultra-high molecular weight polyethylene powder for polymer electrolyte fuel cell application: II. Sulfonation and characterization. <i>Journal of Membrane Science</i> , 2009 , 333, 59-67	9.6	37
130	Sulfonated naphthalenic polyimides containing ether and ketone linkages as polymer electrolyte membranes. <i>Journal of Membrane Science</i> , 2011 , 366, 73-81	9.6	37
129	Morphology of Comb-Shaped Proton Exchange Membrane Copolymers Based on a Neutron Scattering Study. <i>Macromolecules</i> , 2008 , 41, 6176-6182	5.5	37
128	Copoly(arylene ether nitrile)sHigh-Performance Polymer Electrolytes for Direct Methanol Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2008 , 155, B21	3.9	37
127	Durable Sulfonated Poly(benzothiazole-co-benzimidazole) Proton Exchange Membranes. <i>Macromolecules</i> , 2014 , 47, 6355-6364	5.5	36
126	Self-crosslinked blend alkaline anion exchange membranes with bi-continuous phase separated morphology to enhance ion conductivity. <i>Journal of Membrane Science</i> , 2020 , 597, 117769	9.6	36

125	Ultrathin Low-Crystallinity MOF Membranes Fabricated by Interface Layer Polarization Induction. <i>Advanced Materials</i> , 2020 , 32, e2002165	24	36
124	Chiral separation membranes from modified polysulfone having myrtenal-derived terpenoid side groups. <i>European Polymer Journal</i> , 2006 , 42, 2532-2539	5.2	35
123	Proton exchange membranes based on sulfonated poly(phthalazinone ether ketone)s/aminated polymer blends. <i>Solid State Ionics</i> , 2005 , 176, 409-415	3.3	35
122	Polysulfone membranes. V. Poly(phenyl sulfone) (Radel R)poly(vinyl pyrrolidone) membranes. Journal of Applied Polymer Science, 1994 , 54, 783-792	2.9	35
121	Spinel-based ceramic membranes coupling solid sludge recycling with oily wastewater treatment. Water Research, 2020 , 169, 115180	12.5	35
120	Molecularly Imprinted Nanofiber Membranes from Carboxylated Polysulfone by Electrospray Deposition. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 2100-2105	4.8	34
119	Vapor permeation of aqueous 2-propanol solutions through gelatin/Torlon poly(amide imide) blended membranes. <i>Journal of Membrane Science</i> , 2004 , 243, 89-95	9.6	34
118	Enhancement in the Gas Permeabilities of Novel Polysulfones with Pendant 4-Trimethylsilyl-hydroxylbenzyl Substituents [Macromolecules, 2003, 36, 6807-6816]	5.5	34
117	Fabrication of mullite ceramic-supported carbon nanotube composite membranes with enhanced performance in direct separation of high-temperature emulsified oil droplets. <i>Journal of Membrane Science</i> , 2019 , 582, 140-150	9.6	33
116	Unobstructed Ultrathin Gas Transport Channels in Composite Membranes by Interfacial Self-Assembly. <i>Advanced Materials</i> , 2020 , 32, e1907701	24	33
115	Homopolymer-like sulfonated phenyl- and diphenyl-poly(arylene ether ketone)s for fuel cell applications. <i>Journal of Power Sources</i> , 2008 , 185, 899-903	8.9	33
114	Evaluation of the recognition ability of molecularly imprinted materials by surface plasmon resonance (SPR) spectroscopy. <i>Analytica Chimica Acta</i> , 2003 , 489, 191-198	6.6	33
113	Highly Conductive Anion-Exchange Membranes from Microporous Trger's Base Polymers. <i>Angewandte Chemie</i> , 2016 , 128, 11671-11674	3.6	31
112	Oriented proton-conductive nano-sponge-facilitated polymer electrolyte membranes. <i>Energy and Environmental Science</i> , 2020 , 13, 297-309	35.4	30
111	Flexible Superhydrophobic Metal-Based Carbon Nanotube Membrane for Electrochemically Enhanced Water Treatment. <i>Environmental Science & Enhanced Water Treatment</i> 2015 100 (2016) 100 (2016	10.3	29
110	Sulfonated poly(phthalazinone ether ketone) for proton exchange membranes in direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2005 , 265, 108-114	9.6	29
109	Correlation between Structure and Gas Transport Properties of Silyl-Modified Polysulfones and Poly(phenyl sulfone)s. <i>Macromolecules</i> , 2001 , 34, 2908-2913	5.5	29
108	Polysulfone membranes. IV. Performance evaluation of Radel A/PVP membranes. <i>Journal of Membrane Science</i> , 1993 , 78, 123-134	9.6	29

(2006-2013)

107	A capillary water retention effect to improve medium-temperature fuel cell performance. <i>Electrochemistry Communications</i> , 2013 , 31, 120-124	5.1	28	
106	Structural influence of hydrophobic diamine in sulfonated poly(sulfide sulfone imide) copolymers on medium temperature PEM fuel cell. <i>Polymer</i> , 2014 , 55, 1317-1326	3.9	28	
105	Highly lithium-ion conductive battery separators from thermally rearranged polybenzoxazole. <i>Chemical Communications</i> , 2015 , 51, 2068-71	5.8	27	
104	Microporous polymers: Ultrapermeable membranes. <i>Nature Materials</i> , 2017 , 16, 880-881	27	27	
103	Sorption of CO2/CH4 mixtures in TZ-PIM, PIM-1 and PTMSP: Experimental data and NELF-model analysis of competitive sorption and selectivity in mixed gases. <i>Journal of Membrane Science</i> , 2019 , 585, 136-149	9.6	26	
102	A comparative structureBroperty study of methylphenylated and fluoromethylphenylated poly(aryl ethers) and their gas permeabilities and permselectivities. <i>Polymer</i> , 2005 , 46, 11279-11287	3.9	26	
101	A Highly Permeable Aligned Montmorillonite Mixed-Matrix Membrane for CO2 Separation. <i>Angewandte Chemie</i> , 2016 , 128, 9467-9471	3.6	26	
100	Proton exchange membranes derived from sulfonated polybenzothiazoles containing naphthalene units. <i>Journal of Membrane Science</i> , 2017 , 542, 159-167	9.6	25	
99	Fabrication of fluorescent holographic micropatterns based on azobenzene-containing host-guest complexes. <i>Langmuir</i> , 2009 , 25, 10444-6	4	24	
98	Blend Membranes Based on Sulfonated Poly(ether ether ketone) and Polysulfone Bearing Benzimidazole Side Groups for DMFCs. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, B70		24	
97	A solution-processable and ultra-permeable conjugated microporous thermoset for selective hydrogen separation. <i>Nature Communications</i> , 2020 , 11, 1633	17.4	23	
96	Biomimetic Nanocones that Enable High Ion Permselectivity. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12646-12654	16.4	23	
95	Radiation-grafted membranes based on polyethylene for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 21-29	8.9	23	
94	Effect of Hexafluoro-2-propanol Substituents in Polymers on Gas Permeability and Fractional Free Volume (Macromolecules, 2005, 38, 9670-9678)	5.5	23	
93	Proton-Conducting Poly-Eglutamic Acid Nanofiber Embedded Sulfonated Poly(ether sulfone) for Proton Exchange Membranes. <i>ACS Applied Materials & Description of Materials & Description </i>	9.5	21	
92	Ionomer migration within PEMFC catalyst layers induced by humidity changes. <i>Electrochemistry Communications</i> , 2019 , 109, 106590	5.1	21	
91	Preparation and DMFC performance of a sulfophenylated poly(arylene ether ketone) polymer electrolyte membrane. <i>Electrochimica Acta</i> , 2010 , 55, 3817-3823	6.7	21	
90	Sulfonated poly(aryl ether ether ketone ketone)s containing fluorinated moieties as proton exchange membrane materials. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 2299-2310	2.6	21	

89	Modified polysulphone membranes: 1. Pervaporation of water/alcohol mixtures through modified polysulphone membranes having methyl ester moiety. <i>Polymer</i> , 1992 , 33, 4805-4813	3.9	21
88	Mixed matrix membranes for CO2 separations by incorporating microporous polymer framework fillers with amine-rich nanochannels. <i>Journal of Membrane Science</i> , 2021 , 620, 118923	9.6	21
87	Anisotropic radio-chemically pore-filled anion exchange membranes for solid alkaline fuel cell (SAFC). <i>Journal of Membrane Science</i> , 2015 , 495, 206-215	9.6	20
86	Comparative effect of phthalazinone units in sulfonated poly(arylene ether ether ketone ketone) copolymers as proton exchange membrane materials. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 989-1	ძი∑	20
85	Modified polysulfones 5: synthesis and characterization of tetramethyl polysulfones containing trimethylsilyl groups and their gas transport properties. <i>Polymer</i> , 2002 , 43, 5369-5378	3.9	20
84	Molecularly imprinted films derived from Torlon polyamide Imide. <i>Journal of Molecular Structure</i> , 2005 , 739, 41-46	3.4	20
83	Mixed-Matrix Membranes with Covalent Triazine Framework Fillers in Polymers of Intrinsic Microporosity for CO2 Separations. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5296-530) ∂ .9	20
82	Synergistic CO2-Sieving from Polymer with Intrinsic Microporosity Masking Nanoporous Single-Layer Graphene. <i>Advanced Functional Materials</i> , 2020 , 30, 2003979	15.6	20
81	Progress in High-Performance Anion Exchange Membranes Based on the Design of Stable Cations for Alkaline Fuel Cells. <i>Advanced Materials Technologies</i> , 2021 , 6, 2001220	6.8	20
80	Novel PA-doped polybenzimidazole membranes with high doping level, high proton conductivity and high stability for HT-PEMFCs. <i>RSC Advances</i> , 2015 , 5, 53870-53873	3.7	19
79	Soluble sulfonated polybenzothiazoles containing naphthalene for use as proton exchange membranes. <i>Journal of Membrane Science</i> , 2015 , 490, 346-353	9.6	19
78	Electrospun nanofiber membranes from polysulfones with chiral selector aimed for optical resolution. <i>European Polymer Journal</i> , 2012 , 48, 1717-1725	5.2	19
77	Blend Membranes Consisting of Sulfonated Poly(ether ether ketone) and Polysulfone Bearing 4-Nitrobenzimidazole for Direct Methanol Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B258	3.9	19
76	Influence of silica content in crosslinked PVA/PSSA_MA/Silica hybrid membrane for direct methanol fuel cell (DMFC). <i>Macromolecular Research</i> , 2007 , 15, 412-417	1.9	19
75	Recognition and Selective Transport of Nucleic Acid Components through Molecularly Imprinted Polymeric Membranes. <i>Macromolecular Materials and Engineering</i> , 2001 , 286, 52-59	3.9	19
74	Fuel cells with an operational range of $20\mathrm{lC}$ to $200\mathrm{lC}$ enabled by phosphoric acid-doped intrinsically ultramicroporous membranes. <i>Nature Energy</i> ,	62.3	19
73	Design of Pt-C/Fe-N-S-C cathode dual catalyst layers for proton exchange membrane fuel cells under low humidity. <i>Electrochimica Acta</i> , 2019 , 296, 450-457	6.7	19
72	Surface orientation of hydrophilic groups in sulfonated poly(ether ether ketone) membranes. <i>Journal of Colloid and Interface Science</i> , 2013 , 409, 193-203	9.3	18

(2008-2009)

71	Blend Membranes Consisting of Sulfonated Poly(ether ether ketone) and 1H-Perimidine Tethered Polysulfone for Direct Methanol Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, B180		18	
70	Gas transport and dynamic mechanical behavior in modified polysulfones with trimethylsilyl groups: effect of degree of substitution. <i>Journal of Membrane Science</i> , 2003 , 223, 1-10	9.6	18	
69	Phase separation in carboxylated polysulfone/solvent/water systems. <i>Journal of Applied Polymer Science</i> , 1991 , 42, 3215-3221	2.9	18	
68	Fuel cell performance of pendent methylphenyl sulfonated poly(ether ether ketone ketone)s. <i>Journal of Power Sources</i> , 2017 , 368, 30-37	8.9	17	
67	Hierarchically Porous Co-N-C Cathode Catalyst Layers for Anion Exchange Membrane Fuel Cells. <i>ChemSusChem</i> , 2019 , 12, 4165-4169	8.3	17	
66	Poly(arylene ether) electrolyte membranes bearing aliphatic-chain-linked sulfophenyl pendant groups. <i>Journal of Membrane Science</i> , 2013 , 428, 629-638	9.6	17	
65	Modified polysulfones. IV. Synthesis and characterization of polymers with silicon substituents for a comparative study of gas-transport properties. <i>Journal of Polymer Science Part A</i> , 2001 , 39, 2103-2124	2.5	17	
64	Recent Insights on Catalyst Layers for Anion Exchange Membrane Fuel Cells. <i>Advanced Science</i> , 2021 , 8, e2100284	13.6	17	
63	Vapor Permeation and Pervaporation of Aqueous 2-Propanol Solutions through the Torlon Poly(amide imide) Membrane. <i>Separation Science and Technology</i> , 2005 , 40, 2697-2707	2.5	16	
62	Multi-scale study on bifunctional Co/FeNII cathode catalyst layers with high active site density for the oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2021 , 299, 120656	21.8	16	
61	Tuning surface hydrophilicity/hydrophobicity of hydrocarbon proton exchange membranes (PEMs). Journal of Colloid and Interface Science, 2016 , 466, 168-77	9.3	15	
60	SPAEK-based binary blends and ternary composites as proton exchange membranes for DMFCs. <i>Journal of Membrane Science</i> , 2012 , 415-416, 520-526	9.6	15	
59	Modified polysulfones. III. Synthesis and characterization of polysulfone aldehydes for reactive membrane materials. <i>Journal of Polymer Science Part A</i> , 2001 , 39, 675-682	2.5	15	
58	Modified polysulfone membranes. III. Pervaporation separation of benzenedyclohexane mixtures through carboxylated polysulfone membranes*. <i>Journal of Applied Polymer Science</i> , 1999 , 74, 407-412	2.9	15	
57	Variations in the pore size of charged and noncharged hydrophilic polysulfone membranes. <i>Industrial & Engineering Chemistry Research</i> , 1992 , 31, 834-838	3.9	14	
56	Restricted chain rotation in polymers containing pendant groups: structural characterization of hydroxyl-functionalized polysulfones. <i>Macromolecules</i> , 1992 , 25, 5181-5185	5.5	14	
55	Mass Transfer in a Co/N/C Catalyst Layer for the Anion Exchange Membrane Fuel Cell. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 32842-32850	9.5	13	
54	Surface plasmon resonance studies on molecularly imprinted films. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 2826-2832	2.9	12	

53	Modified polysulfones. VI. Preparation of polymer membrane materials containing benzimine and benzylamine groups as precursors for molecularly imprinted sensor devices. <i>Journal of Polymer Science Part A</i> , 2003 , 41, 1316-1329	2.5	12
52	Robust ultrathin nanoporous MOF membrane with intra-crystalline defects for fast water transport <i>Nature Communications</i> , 2022 , 13, 266	17.4	12
51	Oil-Water-Oil Triphase Synthesis of Ionic Covalent Organic Framework Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 27078	16.4	12
50	Anion exchange membranes with eight flexible side-chain cations for improved conductivity and alkaline stability. <i>Science China Materials</i> , 2020 , 63, 2539-2550	7.1	12
49	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO2 Separations. <i>Angewandte Chemie</i> , 2017 , 129, 14434-14439	3.6	11
48	Molecular Design Aspect of Sulfonated Polymers for Direct Methanol Fuel Cells. <i>ECS Transactions</i> , 2010 , 33, 711-717	1	11
47	Syntheses of polysulfones containing chelating reagents and their application to the preconcentration of trace metals. <i>Reactive and Functional Polymers</i> , 1996 , 31, 207-218	4.6	11
46	A paradigm shift for a new class of proton exchange membranes with ferrocyanide proton-conducting groups providing enhanced oxidative stability. <i>Journal of Membrane Science</i> , 2020 , 616, 118536	9.6	11
45	Toward alkaline-stable anion exchange membranes in fuel cells: cycloaliphatic quaternary ammonium-based anion conductors. <i>Electrochemical Energy Reviews</i> ,1	29.3	11
44	Use of non-selective, high-molecular-weight poly(ethylene oxide) membrane for CO2 separation by incorporation of comb copolymer. <i>Journal of Membrane Science</i> , 2020 , 605, 118092	9.6	10
43	Biomimetic Nanocones that Enable High Ion Permselectivity. <i>Angewandte Chemie</i> , 2019 , 131, 12776-127	⁷ 8 <u>.</u> 6	10
42	Synthesis and characterization of soluble copoly(ether ketone)s containing double bonds. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 3449-3454	2.5	10
41	Novel iodo-containing poly(arylene ether ketone)s as intermediates for grafting perfluoroalkyl sulfonic acid groups. <i>Reactive and Functional Polymers</i> , 2017 , 111, 7-13	4.6	9
40	Blend Membranes Based on Acid-Base Interactions for Operation at High Methanol Concentrations. Journal of the Electrochemical Society, 2009 , 156, B46	3.9	9
39	Interpretation of direct methanol fuel cell electrolyte properties using non-traditional length-scale parameters. <i>Journal of Membrane Science</i> , 2011 , 374, 49-58	9.6	9
38	Gas transport in modified polysulfones with trimethylsilyl groups: effect of substitution site. <i>Journal of Membrane Science</i> , 2003 , 212, 147-155	9.6	9
37	Clustering in carboxylated polysulfone ionomers: A characterization by dynamic mechanical and small-angle X-ray scattering methods. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999 , 37, 3226	5 - 3232	9
36	Gas Transport in a Polymer of Intrinsic Microporosity (PIM-1) Substituted with Pseudo-Ionic Liquid Tetrazole-Type Structures. <i>Macromolecules</i> , 2020 , 53, 8951-8959	5.5	9

35	Molecular Motions of Adsorbed CO2 on a Tetrazole-Functionalized PIM Polymer Studied with 13C NMR. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22995-22999	3.8	8	
34	Optical Resolution Membranes from Polysulfones Bearing Alanine Derivatives as Chiral Selectors. <i>Macromolecular Materials and Engineering</i> , 2011 , 296, 562-567	3.9	8	
33	3D-quantification of biomolecular covers using surface plasmon-polariton resonance experiment. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 66-71	8.5	8	
32	Durability enhancement of proton exchange membrane fuel cells by ferrocyanide or ferricyanide additives. <i>Journal of Membrane Science</i> , 2021 , 629, 119282	9.6	8	
31	Magnetic-field-oriented mixed-valence-stabilized ferrocenium anion-exchange membranes for fuel cells. <i>Nature Energy</i> ,	62.3	8	
30	Carbon fiber paper supported nano-Pt electrode with high electrocatalytic activity for concentrated nitric acid reduction. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 794, 43-48	4.1	7	
29	Surface-modified polysulfone membranes: Aqueous phase oxidation via persulfate radical. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 1723-1730	2.9	7	
28	Modified Polysulfone Membranes II. Pervaporation of Aqueous Ethanol Solution through Modified Polysulfone Membranes Bearing Various Hydroxyl Groups. <i>Polymer Journal</i> , 1992 , 24, 1049-1055	2.7	7	
27	Ionomer dispersion solvent influence on the microstructure of CoNC catalyst layers for anion exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2021 , 484, 229259	8.9	6	
26	CO2 Adsorption on PIMs Studied with 13C NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4403-4408	3.8	5	
25	Surface plasmon resonance biomolecular recognition nanosystem: influence of the interfacial electrical potential. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 6559-64	1.3	5	
24	Reinforced films based on cross-linked water-soluble sulfonated carbon nanotubes with sulfonated polystyrene. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5150-6	1.3	5	
23	Sorption of Water/Methanol on Teflon and Hydrocarbon Proton Exchange Membranes. <i>ACS Applied Materials & Acs Applied & Acs Appli</i>	9.5	5	
22	Mechanically robust microporous anion exchange membranes with efficient anion conduction for fuel cells. <i>Chemical Engineering Journal</i> , 2021 , 418, 129311	14.7	5	
21	Modified Polysulfone Membranes. IV. Gas Separation with Aminated Polysulfone Membranes <i>Journal of Fiber Science and Technology</i> , 2000 , 56, 272-281	O	4	
20	Self-adjusting anode catalyst layer for smart water management in anion exchange membrane fuel cells. <i>Cell Reports Physical Science</i> , 2021 , 2, 100377	6.1	4	
19	Solvent-processable 0D covalent organic framework quantum dot engineered composite membranes for biogas upgrading. <i>Journal of Membrane Science</i> , 2021 , 640, 119803	9.6	4	
18	Polymers in Membrane Electrode Assemblies 2012 , 691-720		3	

17	Sulfonated Poly(aryl ether)-Type Polymers as Proton Exchange Membranes: Synthesis and Performance 2008 , 1-45		3
16	Chiral Separation of Racemic Amino Acids through Membranes derived from Modified Polysulfone Having Perillaldehyde Moiety as a Side Group. <i>Membrane</i> , 2005 , 30, 219-225	Ο	3
15	Selective Recognition and Permeation of Bisphenol A with Molecularly Imprinted Polyamide Membranes <i>Membrane</i> , 2001 , 26, 185-188	О	3
14	Towards high conductivity in anion-exchange membranes for alkaline fuel cells. <i>ChemSusChem</i> , 2013 , 6, 1290	8.3	2
13	Isobaric vaporllquid equilibria of the binary system maleic anhydride and dimethyl phthalate at 2.67, 5.33 and 8.00kPa. <i>Fluid Phase Equilibria</i> , 2006 , 247, 54-58	2.5	2
12	Highly Cationized and Porous Hyper-cross-linked Polymer Nanospheres for Composite Anion Exchange Membranes. <i>ACS Applied Polymer Materials</i> ,	4.3	2
11	Proton Conductivity of Aromatic Polymers 2012 , 331-369		1
10	Membrane Electrode Assemblies Based on Hydrocarbon Electrolytes with Nitrile Groups for Direct Methanol Fuel Cells. <i>ECS Transactions</i> , 2013 , 50, 2139-2149	1	1
9	Proton Exchange Membranes for Direct Methanol Fuel Cells379-416		1
8	Development of Sulfonated Poly(ether-ether ketone)s for PEMFC and DMFC 2008 , 1-36		1
7	Gas Transport Properties of Tetramethyl Polysulfones Containing Trimethylsilyl Group Side Substituents. <i>ACS Symposium Series</i> , 2004 , 154-166	0.4	1
6	Confined facilitated transport within covalent organic frameworks for propylene/propane membrane separation. <i>Chemical Engineering Journal</i> , 2022 , 439, 135657	14.7	1
5	Cost-effective Prussian blue analogue composite proton exchange membranes for low humidity fuel cell operation. <i>Journal of Power Sources</i> , 2022 , 537, 231542	8.9	1
4	Weakly pressure-dependent molecular sieving of propylene/propane mixtures through mixed matrix membrane with ZIF-8 direct-through channels. <i>Journal of Membrane Science</i> , 2022 , 648, 120366	9.6	O
3	Hydrogen crossover through microporous anion exchange membranes for fuel cells. <i>Journal of Power Sources</i> , 2022 , 527, 231143	8.9	0
2	Self-supported membranes fabricated by a polymer-hydrogen bonded network with a rigidified MOF framework. <i>Journal of Membrane Science</i> , 2022 , 650, 120427	9.6	O

[P1.037] Sorption of CO2/CH4 Mixtures in PIM-1 and PTMSP Membranes: Experimental Data at 35°C and Modeling. *Procedia Engineering*, **2012**, 44, 758-759