

Michael D Guiver

List of Publications by Year in Descending Order

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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

77
h-index

132
g-index

275
ext. papers

22,451
ext. citations

9.8
avg, IF

7.01
L-index

#	Paper	IF	Citations
268	Robust ultrathin nanoporous MOF membrane with intra-crystalline defects for fast water transport.. <i>Nature Communications</i> , 2022 , 13, 266	17.4	12
267	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	0
266	Hydrogen crossover through microporous anion exchange membranes for fuel cells. <i>Journal of Power Sources</i> , 2022 , 527, 231143	8.9	0
265	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	0
264	Confined facilitated transport within covalent organic frameworks for propylene/propane membrane separation. <i>Chemical Engineering Journal</i> , 2022 , 439, 135657	14.7	1
263	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
262	Oil-Water-Oil Triphase Synthesis of Ionic Covalent Organic Framework Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 27078	16.4	12
261	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
260	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
259	Recent Insights on Catalyst Layers for Anion Exchange Membrane Fuel Cells. <i>Advanced Science</i> , 2021 , 8, e2100284	13.6	17
258	Ionomer dispersion solvent influence on the microstructure of CoNi catalyst layers for anion exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2021 , 484, 229259	8.9	6
257	Mixed matrix membranes for CO ₂ separations by incorporating microporous polymer framework fillers with amine-rich nanochannels. <i>Journal of Membrane Science</i> , 2021 , 620, 118923	9.6	21
256	Designing the next generation of proton-exchange membrane fuel cells. <i>Nature</i> , 2021 , 595, 361-369	50.4	152
255	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
254	Mechanically robust microporous anion exchange membranes with efficient anion conduction for fuel cells. <i>Chemical Engineering Journal</i> , 2021 , 418, 129311	14.7	5
253	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
252	Multi-scale study on bifunctional Co/FeNi catalyst layers with high active site density for the oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2021 , 299, 120656	21.8	16

251	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
250	Flexible Superhydrophobic Metal-Based Carbon Nanotube Membrane for Electrochemically Enhanced Water Treatment. <i>Environmental Science & Technology</i> , 2020 , 54, 9074-9082	10.3	29
249	Mass Transfer in a Co/N/C Catalyst Layer for the Anion Exchange Membrane Fuel Cell. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32842-32850	9.5	13
248	Use of non-selective, high-molecular-weight poly(ethylene oxide) membrane for CO ₂ separation by incorporation of comb copolymer. <i>Journal of Membrane Science</i> , 2020 , 605, 118092	9.6	10
247	A solution-processable and ultra-permeable conjugated microporous thermoset for selective hydrogen separation. <i>Nature Communications</i> , 2020 , 11, 1633	17.4	23
246	Unobstructed Ultrathin Gas Transport Channels in Composite Membranes by Interfacial Self-Assembly. <i>Advanced Materials</i> , 2020 , 32, e1907701	24	33
245	Realizing small-flake graphene oxide membranes for ultrafast size-dependent organic solvent nanofiltration. <i>Science Advances</i> , 2020 , 6, eaaz9184	14.3	85
244	Mixed-Matrix Membranes with Covalent Triazine Framework Fillers in Polymers of Intrinsic Microporosity for CO ₂ Separations. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5296-5306	2.9	20
243	Oriented proton-conductive nano-sponge-facilitated polymer electrolyte membranes. <i>Energy and Environmental Science</i> , 2020 , 13, 297-309	35.4	30
242	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
241	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
240	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
239	Ultrathin Low-Crystallinity MOF Membranes Fabricated by Interface Layer Polarization Induction. <i>Advanced Materials</i> , 2020 , 32, e2002165	24	36
238	Membrane-Based Olefin/Paraffin Separations. <i>Advanced Science</i> , 2020 , 7, 2001398	13.6	39
237	Synergistic CO ₂ -Sieving from Polymer with Intrinsic Microporosity Masking Nanoporous Single-Layer Graphene. <i>Advanced Functional Materials</i> , 2020 , 30, 2003979	15.6	20
236	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
235	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
234	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

233	Spinel-based ceramic membranes coupling solid sludge recycling with oily wastewater treatment. <i>Water Research</i> , 2020 , 169, 115180	12.5	35
232	Proton-Conducting Poly- γ -Glutamic Acid Nanofiber Embedded Sulfonated Poly(ether sulfone) for Proton Exchange Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21865-21873	9.5	21
231	Sorption of CO ₂ /CH ₄ 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
230	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
229	Hierarchically Porous Co-N-C Cathode Catalyst Layers for Anion Exchange Membrane Fuel Cells. <i>ChemSusChem</i> , 2019 , 12, 4165-4169	8.3	17
228	Biomimetic Nanocones that Enable High Ion Permselectivity. <i>Angewandte Chemie</i> , 2019 , 131, 12776-12784	9.6	10
227	Biomimetic Nanocones that Enable High Ion Permselectivity. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12646-12654	16.4	23
226	Ionomer migration within PEMFC catalyst layers induced by humidity changes. <i>Electrochemistry Communications</i> , 2019 , 109, 106590	5.1	21
225	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
224	Magnetic field alignment of stable proton-conducting channels in an electrolyte membrane. <i>Nature Communications</i> , 2019 , 10, 842	17.4	70
223	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
222	Metal-induced ordered microporous polymers for fabricating large-area gas separation membranes. <i>Nature Materials</i> , 2019 , 18, 163-168	27	113
221	CO ₂ Adsorption on PIMs Studied with ¹³ C NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4403-4408	3.8	5
220	Stable Superhydrophobic Ceramic-Based Carbon Nanotube Composite Desalination Membranes. <i>Nano Letters</i> , 2018 , 18, 5514-5521	11.5	102
219	Harnessing Filler Materials for Enhancing Biogas Separation Membranes. <i>Chemical Reviews</i> , 2018 , 118, 8655-8769	68.1	154
218	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
217	Bioinspired Ultrastrong Solid Electrolytes with Fast Proton Conduction along 2D Channels. <i>Advanced Materials</i> , 2017 , 29, 1605898	24	67
216	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

215	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
214	Fuel cell performance of pendent methylphenyl sulfonated poly(ether ether ketone)s. <i>Journal of Power Sources</i> , 2017 , 368, 30-37	8.9	17
213	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO Separations. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14246-14251	16.4	95
212	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO ₂ Separations. <i>Angewandte Chemie</i> , 2017 , 129, 14434-14439	3.6	11
211	Proton exchange membranes derived from sulfonated polybenzothiazoles containing naphthalene units. <i>Journal of Membrane Science</i> , 2017 , 542, 159-167	9.6	25
210	Microporous polymers: Ultrapermeable membranes. <i>Nature Materials</i> , 2017 , 16, 880-881	27	27
209	Mixed gas sorption in glassy polymeric membranes. III. CO ₂ /CH ₄ 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
208	Highly Conductive Anion-Exchange Membranes from Microporous Tröger's Base Polymers. <i>Angewandte Chemie</i> , 2016 , 128, 11671-11674	3.6	31
207	Dimensionally-stable phosphoric acid-doped polybenzimidazoles for high-temperature proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2016 , 336, 391-400	8.9	49
206	Constructing efficient ion nanochannels in alkaline anion exchange membranes by the in situ assembly of a poly(ionic liquid) in metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2340-2348	13	86
205	Soluble, microporous, Tröger's Base copolyimides with tunable membrane performance for gas separation. <i>Chemical Communications</i> , 2016 , 52, 3817-20	5.8	66
204	Azide-assisted self-crosslinking of highly ion conductive anion exchange membranes. <i>Journal of Membrane Science</i> , 2016 , 509, 48-56	9.6	60
203	1,2,3-Triazolium-Based Poly(2,6-Dimethyl Phenylene Oxide) Copolymers as Anion Exchange Membranes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4651-60	9.5	98
202	Tuning surface hydrophilicity/hydrophobicity of hydrocarbon proton exchange membranes (PEMs). <i>Journal of Colloid and Interface Science</i> , 2016 , 466, 168-77	9.3	15
201	High-strength, soluble polyimide membranes incorporating Tröger's Base for gas separation. <i>Journal of Membrane Science</i> , 2016 , 504, 55-65	9.6	103
200	A Highly Permeable Aligned Montmorillonite Mixed-Matrix Membrane for CO ₂ Separation. <i>Angewandte Chemie</i> , 2016 , 128, 9467-9471	3.6	26
199	A Highly Permeable Aligned Montmorillonite Mixed-Matrix Membrane for CO ₂ Separation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9321-5	16.4	47
198	Alkaline Anion-Exchange Membranes Containing Mobile Ion Shuttles. <i>Advanced Materials</i> , 2016 , 28, 3467-72	7.2	72

197	Advances in high permeability polymer-based membrane materials for CO ₂ separations. <i>Energy and Environmental Science</i> , 2016 , 9, 1863-1890	35.4	475
196	Sorption of Water/Methanol on Teflon and Hydrocarbon Proton Exchange Membranes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12541-51	9.5	5
195	Nanocrack-regulated self-humidifying membranes. <i>Nature</i> , 2016 , 532, 480-3	50.4	281
194	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
193	Highly Conductive Anion-Exchange Membranes from Microporous Tröger's Base Polymers. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11499-502	16.4	146
192	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
191	Mechanically Tough, Thermally Rearranged (TR) Random/Block Poly(benzoxazole-co-imide) Gas Separation Membranes. <i>Macromolecules</i> , 2015 , 48, 5286-5299	5.5	63
190	Soluble sulfonated polybenzothiazoles containing naphthalene for use as proton exchange membranes. <i>Journal of Membrane Science</i> , 2015 , 490, 346-353	9.6	19
189	Highly stable anion exchange membranes based on quaternized polypropylene. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12284-12296	13	113
188	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
187	Highly lithium-ion conductive battery separators from thermally rearranged polybenzoxazole. <i>Chemical Communications</i> , 2015 , 51, 2068-71	5.8	27
186	Nanostructured Ion-Exchange Membranes for Fuel Cells: Recent Advances and Perspectives. <i>Advanced Materials</i> , 2015 , 27, 5280-95	24	273
185	Tunable Nanochannels along Graphene Oxide/Polymer Core/Shell Nanosheets to Enhance Proton Conductivity. <i>Advanced Functional Materials</i> , 2015 , 25, 7502-7511	15.6	83
184	Effect of methanol treatment on gas sorption and transport behavior of intrinsically microporous polyimide membranes incorporating Tröger's base. <i>Journal of Membrane Science</i> , 2015 , 480, 104-114	9.6	59
183	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
182	Intrinsically Microporous Soluble Polyimides Incorporating Tröger's Base for Membrane Gas Separation. <i>Macromolecules</i> , 2014 , 47, 3254-3262	5.5	185
181	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
180	Durable Sulfonated Poly(benzothiazole-co-benzimidazole) Proton Exchange Membranes. <i>Macromolecules</i> , 2014 , 47, 6355-6364	5.5	36

179	Ion Transport by Nanochannels in Ion-Containing Aromatic Copolymers. <i>Macromolecules</i> , 2014 , 47, 2175-2198	3.3	98	332
178	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
177	Mixed gas sorption in glassy polymeric membranes: II. CO ₂ /CH ₄ mixtures in a polymer of intrinsic microporosity (PIM-1). <i>Journal of Membrane Science</i> , 2014 , 459, 264-276	9.6		43
176	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
175	Naphthalene-based poly(arylene ether ketone) anion exchange membranes. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6481	13		63
174	Towards high conductivity in anion-exchange membranes for alkaline fuel cells. <i>ChemSusChem</i> , 2013 , 6, 1290	8.3		2
173	Molecular Motions of Adsorbed CO ₂ on a Tetrazole-Functionalized PIM Polymer Studied with ¹³ C NMR. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22995-22999	3.8		8
172	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
171	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
170	Materials science. Polymer rigidity improves microporous membranes. <i>Science</i> , 2013 , 339, 284-5	33.3		188
169	A capillary water retention effect to improve medium-temperature fuel cell performance. <i>Electrochemistry Communications</i> , 2013 , 31, 120-124	5.1		28
168	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
167	Towards high conductivity in anion-exchange membranes for alkaline fuel cells. <i>ChemSusChem</i> , 2013 , 6, 1376-83	8.3		105
166	Polyethylene-based radiation grafted anion-exchange membranes for alkaline fuel cells. <i>Journal of Membrane Science</i> , 2013 , 441, 148-157	9.6		68
165	Proton-conducting membranes from poly(ether sulfone)s grafted with sulfoalkylamine. <i>Journal of Membrane Science</i> , 2013 , 427, 443-450	9.6		62
164	Simulation of membrane-based CO ₂ capture in a coal-fired power plant. <i>Journal of Membrane Science</i> , 2013 , 427, 451-459	9.6		45
163	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
162	Chiral separation with molecularly imprinted polysulfone-aldehyde derivatized nanofiber membranes?. <i>Journal of Membrane Science</i> , 2012 , 401-402, 89-96	9.6		49

161	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
160	A clustered sulfonated poly(ether sulfone) based on a new fluorene-based bisphenol monomer. <i>Journal of Materials Chemistry</i> , 2012 , 22, 25093		55
159	Electrospun nanofiber membranes from polysulfones with chiral selector aimed for optical resolution. <i>European Polymer Journal</i> , 2012 , 48, 1717-1725	5.2	19
158	[P1.037] Sorption of CO ₂ /CH ₄ Mixtures in PIM-1 and PTMSP Membranes: Experimental Data at 35°C and Modeling. <i>Procedia Engineering</i> , 2012 , 44, 758-759		
157	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
156	Decarboxylation-Induced Cross-Linking of Polymers of Intrinsic Microporosity (PIMs) for Membrane Gas Separation. <i>Macromolecules</i> , 2012 , 45, 5134-5139	5.5	108
155	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
154	SPAEEK-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
153	Advances in high permeability polymeric membrane materials for CO ₂ separations. <i>Energy and Environmental Science</i> , 2012 , 5, 7306-7322	35.4	391
152	Polymers in Membrane Electrode Assemblies 2012 , 691-720		3
151	Polymers of intrinsic microporosity (PIMs) substituted with methyl tetrazole. <i>Polymer</i> , 2012 , 53, 4367-4372		77
150	Proton Conductivity of Aromatic Polymers 2012 , 331-369		1
149	Phenyltrimethylammonium Functionalized Polysulfone Anion Exchange Membranes□ <i>Macromolecules</i> , 2012 , 45, 2411-2419	5.5	152
148	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
147	Polymer nanosieve membranes for CO ₂ -capture applications. <i>Nature Materials</i> , 2011 , 10, 372-5	27	647
146	Optical Resolution Membranes from Polysulfones Bearing Alanine Derivatives as Chiral Selectors. <i>Macromolecular Materials and Engineering</i> , 2011 , 296, 562-567	3.9	8
145	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
144	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

143	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
142	Densely Sulfophenylated Segmented Copoly(arylene ether sulfone) Proton Exchange Membranes. <i>Macromolecules</i> , 2011 , 44, 4901-4910	5.5	89
141	Influence of Intermolecular Interactions on the Observable Porosity in Intrinsically Microporous Polymers. <i>Macromolecules</i> , 2011 , 44, 1763-1767	5.5	109
140	Guanidinium-Functionalized Anion Exchange Polymer Electrolytes via Activated Fluorophenyl-Amine Reaction. <i>Chemistry of Materials</i> , 2011 , 23, 3795-3797	9.6	179
139	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
138	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
137	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
136	Molecular Design Aspect of Sulfonated Polymers for Direct Methanol Fuel Cells. <i>ECS Transactions</i> , 2010 , 33, 711-717	1	11
135	Polymers of Intrinsic Microporosity with Dinaphthyl and Thianthrene Segments. <i>Macromolecules</i> , 2010 , 43, 8580-8587	5.5	110
134	Phase separation and water channel formation in sulfonated block copolyimide. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12036-45	3.4	71
133	Polymer Electrolyte Membranes Derived from New Sulfone Monomers with Pendent Sulfonic Acid Groups. <i>Macromolecules</i> , 2010 , 43, 9810-9820	5.5	97
132	Radiation-grafted membranes based on polyethylene for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 21-29	8.9	23
131	Enhanced thermo-oxidative stability of sulfophenylated poly(ether sulfone)s. <i>Polymer</i> , 2010 , 51, 403-413	3.9	44
130	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
129	Acid-Base 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, 289-297	9.6	65
128	High performance direct methanol fuel cells based on acid-Base blend membranes containing benzotriazole. <i>Electrochemistry Communications</i> , 2010 , 12, 607-610	5.1	38
127	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
126	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

125	Blend Membranes Based on Acid-Base Interactions for Operation at High Methanol Concentrations. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B46	3.9	9
124	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
123	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
122	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
121	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
120	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
119	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
118	High-Performance Carboxylated Polymers of Intrinsic Microporosity (PIMs) with Tunable Gas Transport Properties <i>Macromolecules</i> , 2009 , 42, 6038-6043	5.5	209
117	Copoly(arylene ether)s Containing Pendant Sulfonic Acid Groups as Proton Exchange Membranes <i>RCC Publication No. 50899.. Macromolecules</i> , 2009 , 42, 957-963	5.5	136
116	Polymers of Intrinsic Microporosity Derived from Novel Disulfone-Based Monomers <i>Macromolecules</i> , 2009 , 42, 6023-6030	5.5	127
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