

Benny D Freeman

List of Publications by Year in descending order

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430
papers

42,099
citations

2543

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docs citations

461
times ranked

21945
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of defect-free asymmetric gas separation membranes with dihydrolevoglucosenone (Cyrene™) as a greener polar aprotic solvent. <i>Journal of Membrane Science</i> , 2022, 644, 120173.	4.1	13
2	Influence of fixed charge concentration and water uptake on ion sorption in AMPS/PEGDA membranes. <i>Journal of Membrane Science</i> , 2022, 644, 120171.	4.1	16
3	Ethylene and ethane transport properties of hydrogen-stable Ag ⁺ -based facilitated transport membranes. <i>Journal of Membrane Science</i> , 2022, 647, 120300.	4.1	11
4	Gas Permeability, Fractional Free Volume and Molecular Kinetic Diameters: The Effect of Thermal Rearrangement on ortho-hydroxy Polyamide Membranes Loaded with a Porous Polymer Network. <i>Membranes</i> , 2022, 12, 200.	1.4	5
5	Synergistically improved PIM-1 membrane gas separation performance by PAF-1 incorporation and UV irradiation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10107-10119.	5.2	20
6	Cation-Ligand Interactions Dictate Salt Partitioning and Diffusivity in Ligand-Functionalized Polymer Membranes. <i>Macromolecules</i> , 2022, 55, 2260-2270.	2.2	11
7	Ionic Liquid Stabilizes Olefin Facilitated Transport Membranes Against Reduction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	13
8	Salt and ion transport in a series of crosslinked AMPS/PEGDA hydrogel membranes. <i>Journal of Membrane Science</i> , 2022, 653, 120549.	4.1	9
9	Ionic Liquid Stabilizes Olefin Facilitated Transport Membranes Against Reduction. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
10	Enhanced Membrane Performance for Gas Separation by Coupling Effect of the Porous Aromatic Framework (PAF) Incorporation and Photo-Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 6190-6199.	1.8	6
11	Impact of Cation-Ligand Interactions on the Permselectivity of Ligand-Functionalized Polymer Membranes in Single and Mixed Salt Systems. <i>Macromolecules</i> , 2022, 55, 4821-4831.	2.2	9
12	Multi-lab study on the pure-gas permeation of commercial polysulfone (PSf) membranes: Measurement standards and best practices. <i>Journal of Membrane Science</i> , 2022, 659, 120746.	4.1	15
13	Scalable Pillar[5]arene-Integrated Poly(arylate-amide) Molecular Sieve Membranes to Separate Light Gases. <i>Chemistry of Materials</i> , 2022, 34, 6559-6567.	3.2	7
14	Gas sorption and diffusion in poly(dimethylsiloxane) (PDMS)/graphene oxide (GO) nanocomposite membranes. <i>Polymer</i> , 2021, 212, 123185.	1.8	8
15	Prediction of lattice energy of benzene crystals: A robust theoretical approach. <i>Journal of Computational Chemistry</i> , 2021, 42, 248-260.	1.5	12
16	Mobile ion partitioning in ion exchange membranes immersed in saline solutions. <i>Journal of Membrane Science</i> , 2021, 620, 118760.	4.1	20
17	Versatile Synthetic Platform for Polymer Membrane Libraries Using Functional Networks. <i>Macromolecules</i> , 2021, 54, 866-873.	2.2	9
18	Gas Separation by Mixed Matrix Membranes with Porous Organic Polymer Inclusions within o-Hydroxypolyamides Containing m-Terphenyl Moieties. <i>Polymers</i> , 2021, 13, 931.	2.0	10

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19	Origins of Lithium/Sodium Reverse Permeability Selectivity in 12-Crown-4-Functionalized Polymer Membranes. ACS Macro Letters, 2021, 10, 1167-1173.	2.3	13
20	Engineering Li/Na selectivity in 12-Crown-4-functionalized polymer membranes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	65
21	Boric acid removal with polyol-functionalized polyether membranes. Journal of Membrane Science, 2021, 638, 119690.	4.1	4
22	Aqueous ion partitioning in Nafion: Applicability of Manning's counter-ion condensation theory. Journal of Membrane Science, 2021, 638, 119687.	4.1	19
23	Impact of humidity on gas transport in polybenzimidazole membranes. Journal of Membrane Science, 2021, 639, 119758.	4.1	9
24	Pure- and mixed-gas transport properties of a microporous Tröger's Base polymer (PIM-EA-TB). Polymer, 2021, 236, 124295.	1.8	7
25	Selective Separation of Lithium Chloride by Organogels Containing Strapped Calix[4]pyrroles. Journal of the American Chemical Society, 2021, 143, 20403-20410.	6.6	28
26	Fundamental Limitations for Solid Polymer Electrolytes in Secondary Batteries. ECS Meeting Abstracts, 2021, MA2021-02, 329-329.	0.0	0
27	Hydrogen Recovery by Mixed Matrix Membranes Made from 6FCl-APAF HPA with Different Contents of a Porous Polymer Network and Their Thermal Rearrangement. Polymers, 2021, 13, 4343.	2.0	4
28	Influence of temperature on gas transport properties of tetraaminodiphenylsulfone (TADPS) based polybenzimidazoles. Journal of Membrane Science, 2020, 593, 117427.	4.1	40
29	Modeling water diffusion in polybenzimidazole membranes using partial immobilization and free volume theory. Polymer, 2020, 189, 122170.	1.8	17
30	CMS membranes from PBI/PI blends: Temperature effect on gas transport and separation performance. Journal of Membrane Science, 2020, 597, 117703.	4.1	33
31	Hydrogen Stable Supported Ionic Liquid Membranes with Silver Carriers: Propylene and Propane Permeability and Solubility. Industrial & Engineering Chemistry Research, 2020, 59, 5362-5370.	1.8	28
32	Reimagining petroleum refining. Science, 2020, 369, 254-255.	6.0	30
33	Co-ion specific effect on sodium halides sorption and transport in a cross-linked poly(p-styrene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 118410.	4.1	8
34	Tailoring molecular interactions between microporous polymers in high performance mixed matrix membranes for gas separations. Nanoscale, 2020, 12, 17405-17410.	2.8	18
35	Can Self-Assembly Address the Permeability/Selectivity Trade-Offs in Polymer Membranes?. Macromolecules, 2020, 53, 5649-5654.	2.2	39
36	Characterization and gas transport properties of UV-irradiated polydimethylsiloxane (PDMS)-containing polyimide copolymer membranes. Polymer, 2020, 210, 122966.	1.8	15

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37	Glassy polymers: Historical findings, membrane applications, and unresolved questions regarding physical aging. <i>Polymer</i> , 2020, 211, 123176.	1.8	37
38	Designing Solute-Tailored Selectivity in Membranes: Perspectives for Water Reuse and Resource Recovery. <i>ACS Macro Letters</i> , 2020, 9, 1709-1717.	2.3	62
39	Influence of water content on alkali metal chloride transport in cross-linked Poly(ethylene glycol) diacrylate.2. Ion diffusion. <i>Polymer</i> , 2020, 192, 122316.	1.8	21
40	Unprecedentedly Low CO ₂ Transport through Vertically Aligned, Conical Silicon Nanotube Membranes. <i>Nano Letters</i> , 2020, 20, 4754-4760.	4.5	9
41	Gas transport properties of PDMS-coated reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2020, 604, 118009.	4.1	12
42	Efficient metal ion sieving in rectifying subnanochannels enabled by metal-organic frameworks. <i>Nature Materials</i> , 2020, 19, 767-774.	13.3	275
43	Don Paul: 60 Years in Research and Education. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5203-5204.	1.8	0
44	Single and binary ion sorption equilibria of monovalent and divalent ions in commercial ion exchange membranes. <i>Water Research</i> , 2020, 175, 115681.	5.3	43
45	Competitive sorption in CO ₂ /CH ₄ separations: the case of HAB-6FDA polyimide and its TR derivative and a general analysis of its impact on the selectivity of glassy polymers at multicomponent conditions. <i>Journal of Membrane Science</i> , 2020, 612, 118374.	4.1	32
46	Origin of CO ₂ -philic Sorption by Graphene Oxide Layered Nanosheets and Their Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2356-2362.	2.1	6
47	Role of free volume in molecular mobility and performance of glassy polymers for corrosion-protective coatings. <i>Corrosion Engineering Science and Technology</i> , 2020, 55, 145-158.	0.7	11
48	Water Treatment: Are Membranes the Panacea?. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2020, 11, 559-585.	3.3	57
49	Compositionally Controlled Polyether Membranes via Mono(¹ / ₄ -alkoxo)bis(alkylaluminum)-Initiated Chain-Growth Network Epoxide Polymerization: Synthesis and Transport Properties. <i>Macromolecules</i> , 2020, 53, 1191-1198.	2.2	13
50	Influence of Physicochemical Properties on Gas Transport Properties of Silver-Containing Ionic Liquid Mixtures for Olefin/Paraffin Membrane Separation. <i>ECS Transactions</i> , 2020, 98, 385-392.	0.3	2
51	Influence of Physicochemical Properties on Gas Transport Properties of Silver-Containing Ionic Liquid Mixtures for Olefin/Paraffin Membrane Separation. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2968-2968.	0.0	0
52	Ion partitioning between brines and ion exchange polymers. <i>Polymer</i> , 2019, 165, 91-100.	1.8	36
53	Influence of water content on alkali metal chloride transport in cross-linked Poly(ethylene glycol) Diacrylate.1. Ion sorption. <i>Polymer</i> , 2019, 178, 121554.	1.8	25
54	Fast and selective fluoride ion conduction in sub-1-nanometer metal-organic framework channels. <i>Nature Communications</i> , 2019, 10, 2490.	5.8	158

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55	Synthesis and characterization of post-sulfonated poly(arylene ether sulfone) membranes for potential applications in water desalination. <i>Polymer</i> , 2019, 177, 250-261.	1.8	17
56	Effect of Water Content on Sodium Chloride Sorption in Cross-Linked Cation Exchange Membranes. <i>Macromolecules</i> , 2019, 52, 2569-2579.	2.2	14
57	Gas separation properties of polybenzimidazole/thermally-rearranged polymer blends. <i>Journal of Membrane Science</i> , 2019, 582, 182-193.	4.1	40
58	Reflecting on 12 Years as an <i>I&EC Research</i> Associate Editor. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 21171-21172.	1.8	0
59	Influence of concentration polarization and thermodynamic non-ideality on salt transport in reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2019, 572, 668-675.	4.1	36
60	Fouling and in-situ cleaning of ion-exchange membranes during the electro dialysis of fresh acid and sweet whey. <i>Journal of Food Engineering</i> , 2019, 246, 192-199.	2.7	41
61	Ordered polymeric membranes using metals. <i>Nature Materials</i> , 2019, 18, 92-93.	13.3	4
62	Thermally cross-linked diaminophenylindane (DAPI) containing polyimides for membrane based gas separations. <i>Polymer</i> , 2019, 161, 16-26.	1.8	29
63	Fouling mechanisms in constant flux crossflow ultrafiltration. <i>Journal of Membrane Science</i> , 2019, 574, 65-75.	4.1	109
64	Large-scale polymeric carbon nanotube membranes with sub-1.27-nm pores. <i>Science Advances</i> , 2018, 4, e1700938.	4.7	46
65	Ultrafast selective transport of alkali metal ions in metal organic frameworks with subnanometer pores. <i>Science Advances</i> , 2018, 4, eaaq0066.	4.7	368
66	Synthesis and characterization of a phosphine oxide based poly(arylene ether ketone) and blends with poly(2,6-dimethyl-1,4-phenylene oxide) for gas separations. <i>Polymer</i> , 2018, 138, 156-168.	1.8	9
67	Salt concentration dependence of ionic conductivity in ion exchange membranes. <i>Journal of Membrane Science</i> , 2018, 547, 123-133.	4.1	119
68	Infrared Spectroscopy of Polybenzimidazole in the Dry and Hydrate Forms: A Combined Experimental and Computational Study. <i>ACS Omega</i> , 2018, 3, 11592-11607.	1.6	13
69	Equilibrium ion partitioning between aqueous salt solutions and inhomogeneous ion exchange membranes. <i>Desalination</i> , 2018, 446, 31-41.	4.0	35
70	Water Vapor Sorption, Diffusion, and Dilation in Polybenzimidazoles. <i>Macromolecules</i> , 2018, 51, 7197-7208.	2.2	30
71	Effect of fixed charge group concentration on salt permeability and diffusion coefficients in ion exchange membranes. <i>Journal of Membrane Science</i> , 2018, 566, 307-316.	4.1	34
72	Transport of terpenes through composite PDMS/PAN solvent resistant nanofiltration membranes. <i>Separation and Purification Technology</i> , 2018, 207, 470-476.	3.9	24

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73	Thermal rearranged poly(imide-co-ethylene glycol) membranes for gas separation. <i>Journal of Membrane Science</i> , 2018, 563, 676-683.	4.1	14
74	Ion Diffusion Coefficients in Ion Exchange Membranes: Significance of Counterion Condensation. <i>Macromolecules</i> , 2018, 51, 5519-5529.	2.2	123
75	Water and ion sorption in a series of cross-linked AMPS/PEGDA hydrogel membranes. <i>Polymer</i> , 2018, 146, 196-208.	1.8	32
76	Predicting Salt Permeability Coefficients in Highly Swollen, Highly Charged Ion Exchange Membranes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4044-4056.	4.0	126
77	Effect of fixed charge group concentration on equilibrium ion sorption in ion exchange membranes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4638-4650.	5.2	105
78	Poly(2,6-dimethyl-1,4-phenylene oxide) blends with a poly(arylene ether ketone) for gas separation membranes. <i>Polymer</i> , 2017, 114, 135-143.	1.8	18
79	The effects of salt concentration and foulant surface charge on hydrocarbon fouling of a poly(vinylidene fluoride) microfiltration membrane. <i>Water Research</i> , 2017, 117, 230-241.	5.3	38
80	Monovalent and divalent ion sorption in a cation exchange membrane based on cross-linked poly(p-styrene sulfonate-co-divinylbenzene). <i>Journal of Membrane Science</i> , 2017, 535, 132-142.	4.1	64
81	Polybenzoxazole (PBO)-based gas separation membranes thermally derived from blends of Ortho-functional polyimide and polyamide precursors. <i>Separation and Purification Technology</i> , 2017, 184, 384-393.	3.9	10
82	Modeling gas permeability and diffusivity in HAB-6FDA polyimide and its thermally rearranged analogs. <i>Journal of Membrane Science</i> , 2017, 537, 83-92.	4.1	21
83	Maximizing the right stuff: The trade-off between membrane permeability and selectivity. <i>Science</i> , 2017, 356, .	6.0	1,864
84	Why Wasn't My Manuscript Sent Out for Review?. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7109-7111.	1.8	5
85	Accounting for frame of reference and thermodynamic non-idealities when calculating salt diffusion coefficients in ion exchange membranes. <i>Journal of Membrane Science</i> , 2017, 537, 396-406.	4.1	46
86	Influence of temperature on gas solubility in thermally rearranged (TR) polymers. <i>Journal of Membrane Science</i> , 2017, 533, 75-83.	4.1	29
87	Polyurethanes containing Poly(arylene ether sulfone) and Poly(ethylene oxide) segments for gas separation membranes. <i>Polymer</i> , 2017, 118, 256-267.	1.8	21
88	Analysis of the transport properties of thermally rearranged (TR) polymers and polymers of intrinsic microporosity (PIM) relative to upper bound performance. <i>Journal of Membrane Science</i> , 2017, 525, 18-24.	4.1	80
89	<i>50th Anniversary Perspective</i>: Polymers and Mixed Matrix Membranes for Gas and Vapor Separation: A Review and Prospective Opportunities. <i>Macromolecules</i> , 2017, 50, 7809-7843.	2.2	709
90	Aromatic poly(ether ether ketone)s capable of crosslinking <i>via</i> UV irradiation to improve gas separation performance. <i>RSC Advances</i> , 2017, 7, 55371-55381.	1.7	10

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91	Structure-property relationships of crosslinked disulfonated poly(arylene ether sulfone) membranes for desalination of water. <i>Polymer</i> , 2017, 132, 286-293.	1.8	11
92	Fouling-resistant ultrafiltration membranes prepared via co-deposition of dopamine/zwitterion composite coatings. <i>Journal of Membrane Science</i> , 2017, 541, 300-311.	4.1	58
93	Influence of polydopamine deposition conditions on hydraulic permeability, sieving coefficients, pore size and pore size distribution for a polysulfone ultrafiltration membrane. <i>Journal of Membrane Science</i> , 2017, 522, 100-115.	4.1	87
94	Oberflächenmodifizierung von Wasseraufbereitungsmembranen. <i>Angewandte Chemie</i> , 2017, 129, 4734-4788.	1.6	58
95	Surface Modification of Water Purification Membranes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4662-4711.	7.2	564
96	The effect of permeate flux on membrane fouling during microfiltration of oily water. <i>Journal of Membrane Science</i> , 2017, 525, 25-34.	4.1	68
97	A Facile Surface Modification for Antifouling Reverse Osmosis Membranes Using Polydopamine under UV Irradiation. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 5756-5760.	1.8	44
98	(Invited) Membrane Science and Technology for Water-Energy-Food Nexus Applications. <i>ECS Meeting Abstracts</i> , 2017, . .	0.0	0
99	Underwater Superoleophobic Surfaces Prepared from Polymer Zwitterion/Dopamine Composite Coatings. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500521.	1.9	100
100	Effect of polydopamine deposition conditions on polysulfone ultrafiltration membrane properties and threshold flux during oil/water emulsion filtration. <i>Polymer</i> , 2016, 97, 247-257.	1.8	72
101	Gas permeation and mechanical properties of thermally rearranged (TR) copolyimides. <i>Polymer</i> , 2016, 82, 378-391.	1.8	63
102	Synthesis and gas permeability of highly elastic poly(dimethylsiloxane)/graphene oxide composite elastomers using telechelic polymers. <i>Polymer</i> , 2016, 93, 53-60.	1.8	34
103	Fouling propensity of a poly(vinylidene fluoride) microfiltration membrane to several model oil/water emulsions. <i>Journal of Membrane Science</i> , 2016, 514, 659-670.	4.1	44
104	Influence of toluene on CO ₂ and CH ₄ gas transport properties in thermally rearranged (TR) polymers based on 3,3'-dihydroxy-4,4'-diamino-biphenyl (HAB) and 2,2'-bis-(3,4-dicarboxyphenyl) hexafluoropropane dianhydride (6FDA). <i>Journal of Membrane Science</i> , 2016, 514, 282-293.	4.1	30
105	Cracks help membranes to stay hydrated. <i>Nature</i> , 2016, 532, 445-446.	13.7	6
106	Liquid methanol sorption, diffusion and permeation in charged and uncharged polymers. <i>Polymer</i> , 2016, 102, 281-291.	1.8	30
107	Gas transport properties and characterization of UV crosslinked poly(phenylene oxide-co-arylene) Tj ETQq1 1 0.784314 rgBT /Overloc 3.2 8	3.2	8
108	Nonequilibrium Lattice Fluid Modeling of Gas Solubility in HAB-6FDA Polyimide and Its Thermally Rearranged Analogues. <i>Macromolecules</i> , 2016, 49, 8768-8779.	2.2	21

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109	Gas permeation properties of thermally rearranged (TR) isomers and their aromatic polyimide precursors. <i>Journal of Membrane Science</i> , 2016, 518, 88-99.	4.1	24
110	Gas permeation and selectivity of poly(dimethylsiloxane)/graphene oxide composite elastomer membranes. <i>Journal of Membrane Science</i> , 2016, 518, 131-140.	4.1	73
111	Cross-Linked Disulfonated Poly(arylene ether sulfone) Telechelic Oligomers. 2. Elevated Transport Performance with Increasing Hydrophilicity. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 1419-1426.	1.8	10
112	Charged Polymer Membranes for Environmental/Energy Applications. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016, 7, 111-133.	3.3	102
113	Effect of UV irradiation and physical aging on O ₂ and N ₂ transport properties of thin glassy poly(arylene ether ketone) copolymer films based on tetramethyl bisphenol A and 4,4'-difluorobenzophenone. <i>Polymer</i> , 2016, 87, 202-214.	1.8	16
114	Partitioning of mobile ions between ion exchange polymers and aqueous salt solutions: importance of counter-ion condensation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6021-6031.	1.3	148
115	Highly CO ₂ -Selective Gas Separation Membranes Based on Segmented Copolymers of Poly(Ethylene oxide) Reinforced with Pentiptycene-Containing Polyimide Hard Segments. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2306-2317.	4.0	125
116	Pentiptycene-based polyimides with hierarchically controlled molecular cavity architecture for efficient membrane gas separation. <i>Journal of Membrane Science</i> , 2015, 480, 20-30.	4.1	101
117	Gas permeation in thin films of "high free-volume" glassy perfluoropolymers: Part II. CO ₂ plasticization and sorption. <i>Polymer</i> , 2015, 61, 1-14.	1.8	52
118	Equation of State Modeling of the Solubility of CO ₂ /C ₂ H ₆ Mixtures in Cross-Linked Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	15
119	Effect of ambient carbon dioxide on salt permeability and sorption measurements in ion-exchange membranes. <i>Journal of Membrane Science</i> , 2015, 479, 55-66.	4.1	40
120	Effect of polymer structure on gas transport properties of selected aromatic polyimides, polyamides and TR polymers. <i>Journal of Membrane Science</i> , 2015, 493, 766-781.	4.1	63
121	Synthesis and characterization of polybenzimidazoles derived from tetraaminodiphenylsulfone for high temperature gas separation membranes. <i>Polymer</i> , 2015, 71, 135-142.	1.8	51
122	Size-Dependent Permeability Deviations from Maxwell's Model in Hybrid Cross-Linked Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.2	96
123	Preparation and properties of polybenzoxazole-based gas separation membranes: A comparative study between thermal rearrangement (TR) of poly(hydroxyimide) and thermal cyclodehydration of poly(hydroxyamide). <i>Polymer</i> , 2015, 78, 81-93.	1.8	32
124	Ion Activity Coefficients in Ion Exchange Polymers: Applicability of Manning's Counterion Condensation Theory. <i>Macromolecules</i> , 2015, 48, 8011-8024.	2.2	154
125	Synthesis and characterization of thermally rearranged (TR) polybenzoxazoles: Influence of isomeric structure on gas transport properties. <i>Polymer</i> , 2015, 75, 199-210.	1.8	25
126	Comparison of transport properties of rubbery and glassy polymers and the relevance to the upper bound relationship. <i>Journal of Membrane Science</i> , 2015, 476, 421-431.	4.1	153

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127	Predictive calculation of hydrogen and helium solubility in glassy and rubbery polymers. <i>Journal of Membrane Science</i> , 2015, 475, 110-121.	4.1	27
128	Pure- and mixed-gas permeation of CO ₂ and CH ₄ in thermally rearranged polymers based on 3,3'-dihydroxy-4,4'-diamino-biphenyl (HAB) and 2,2'-bis-(3,4-dicarboxyphenyl) hexafluoropropane dianhydride (6FDA). <i>Journal of Membrane Science</i> , 2015, 475, 204-214.	4.1	93
129	Investigation of the chemical and morphological structure of thermally rearranged polymers. <i>Polymer</i> , 2014, 55, 6649-6657.	1.8	32
130	Influence of polyimide precursor synthesis route and ortho-position functional group on thermally rearranged (TR) polymer properties: Conversion and free volume. <i>Polymer</i> , 2014, 55, 1636-1647.	1.8	59
131	Rheological studies of disulfonated poly(arylene ether sulfone) plasticized with poly(ethylene) Tj ETQq1 1 0.784314 ggBT / Overlock 10 T	1.8	20
132	Thermal rearranged poly(benzoxazole-co-imide) membranes for CO ₂ separation. <i>Journal of Membrane Science</i> , 2014, 450, 72-80.	4.1	71
133	Fundamental water and salt transport properties of polymeric materials. <i>Progress in Polymer Science</i> , 2014, 39, 1-42.	11.8	597
134	Free volume characterization of sulfonated styrenic pentablock copolymers using positron annihilation lifetime spectroscopy. <i>Journal of Membrane Science</i> , 2014, 453, 425-434.	4.1	45
135	Gas transport in coextruded multilayered membranes with alternating dense and porous polymeric layers. <i>Polymer</i> , 2014, 55, 1259-1266.	1.8	10
136	Ozonation of phosphonate antiscalants used for reverse osmosis desalination: Parameter effects on the extent of oxidation. <i>Chemical Engineering Journal</i> , 2014, 244, 505-513.	6.6	25
137	Solute and water transport in forward osmosis using polydopamine modified thin film composite membranes. <i>Desalination</i> , 2014, 343, 8-16.	4.0	82
138	Thermal rearranged poly(benzoxazole)/polyimide blended membranes for CO ₂ separation. <i>Separation and Purification Technology</i> , 2014, 124, 134-140.	3.9	39
139	Cross-Linking Disulfonated Poly(arylene ether sulfone) Telechelic Oligomers. 1. Synthesis, Characterization, and Membrane Preparation. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 2583-2593.	1.8	9
140	Contributions of diffusion and solubility selectivity to the upper bound analysis for glassy gas separation membranes. <i>Journal of Membrane Science</i> , 2014, 453, 71-83.	4.1	170
141	High-performance CO ₂ -philic graphene oxide membranes under wet-conditions. <i>Chemical Communications</i> , 2014, 50, 13563-13566.	2.2	105
142	Gas permeation in thin films of high free-volume glassy perfluoropolymers: Part I. Physical aging. <i>Polymer</i> , 2014, 55, 5788-5800.	1.8	83
143	Water vapor permeability and competitive sorption in thermally rearranged (TR) membranes. <i>Journal of Membrane Science</i> , 2014, 470, 132-137.	4.1	42
144	Synthesis, oxidation and crosslinking of tetramethyl bisphenol F (TMBPF)-based polymers for oxygen/nitrogen gas separations. <i>Polymer</i> , 2014, 55, 5623-5634.	1.8	12

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145	Graphene Oxide: A New Platform for High-Performance Gas and Liquid Separation Membranes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10286-10288.	7.2	130
146	Synthesis and characterization of triptycene-based polyimides with tunable high fractional free volume for gas separation membranes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13309-13320.	5.2	175
147	Influence of Diffusivity and Sorption on Helium and Hydrogen Separations in Hydrocarbon, Silicon, and Fluorocarbon-Based Polymers. <i>Macromolecules</i> , 2014, 47, 3170-3184.	2.2	59
148	Thermal analysis of disulfonated poly(arylene ether sulfone) plasticized with poly(ethylene glycol) for membrane formation. <i>Polymer</i> , 2014, 55, 235-247.	1.8	31
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