

Neil B Mckeown

List of Publications by Year in descending order

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247
papers

22,076
citations

12330

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docs citations

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times ranked

11636
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymers of intrinsic microporosity (PIMs): organic materials for membrane separations, heterogeneous catalysis and hydrogen storage. <i>Chemical Society Reviews</i> , 2006, 35, 675.	38.1	1,545
2	Polymers of intrinsic microporosity (PIMs): robust, solution-processable, organic nanoporous materials. <i>Chemical Communications</i> , 2004, , 230.	4.1	1,084
3	An Efficient Polymer Molecular Sieve for Membrane Gas Separations. <i>Science</i> , 2013, 339, 303-307.	12.6	884
4	Solution-Processed, Organophilic Membrane Derived from a Polymer of Intrinsic Microporosity. <i>Advanced Materials</i> , 2004, 16, 456-459.	21.0	788
5	Gas separation membranes from polymers of intrinsic microporosity. <i>Journal of Membrane Science</i> , 2005, 251, 263-269.	8.2	730
6	Exploitation of Intrinsic Microporosity in Polymer-Based Materials. <i>Macromolecules</i> , 2010, 43, 5163-5176.	4.8	725
7	The influence of surface modification on the cytotoxicity of PAMAM dendrimers. <i>International Journal of Pharmaceutics</i> , 2003, 252, 263-266.	5.2	655
8	Redefining the Robeson upper bounds for CO ₂ /CH ₄ and CO ₂ /N ₂ separations using a series of ultrapermeable benzotriptycene-based polymers of intrinsic microporosity. <i>Energy and Environmental Science</i> , 2019, 12, 2733-2740.	30.8	509
9	Gas permeation parameters and other physicochemical properties of a polymer of intrinsic microporosity: Polybenzodioxane PIM-1. <i>Journal of Membrane Science</i> , 2008, 325, 851-860.	8.2	470
10	Polymers of Intrinsic Microporosity (PIMs): Bridging the Void between Microporous and Polymeric Materials. <i>Chemistry - A European Journal</i> , 2005, 11, 2610-2620.	3.3	461
11	Towards Polymer-Based Hydrogen Storage Materials: Engineering Ultramicroporous Cavities within Polymers of Intrinsic Microporosity. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1804-1807.	13.8	421
12	Gas Permeation Properties, Physical Aging, and Its Mitigation in High Free Volume Glassy Polymers. <i>Chemical Reviews</i> , 2018, 118, 5871-5911.	47.7	414
13	Free volume and intrinsic microporosity in polymers. <i>Journal of Materials Chemistry</i> , 2005, 15, 1977.	6.7	364
14	Triptycene Induced Enhancement of Membrane Gas Selectivity for Microporous Tröger's Base Polymers. <i>Advanced Materials</i> , 2014, 26, 3526-3531.	21.0	347
15	Highly permeable polymers for gas separation membranes. <i>Polymer Chemistry</i> , 2010, 1, 63.	3.9	308
16	High-Performance Membranes from Polyimides with Intrinsic Microporosity. <i>Advanced Materials</i> , 2008, 20, 2766-2771.	21.0	307
17	A Spirobifluorene-Based Polymer of Intrinsic Microporosity with Improved Performance for Gas Separation. <i>Advanced Materials</i> , 2012, 24, 5930-5933.	21.0	306
18	A triptycene-based polymer of intrinsic microporosity that displays enhanced surface area and hydrogen adsorption. <i>Chemical Communications</i> , 2007, , 67-69.	4.1	282

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19	Triptycene-Based Polymers of Intrinsic Microporosity: Organic Materials That Can Be Tailored for Gas Adsorption. <i>Macromolecules</i> , 2010, 43, 5287-5294.	4.8	275
20	Polymer ultrapermeability from the inefficient packing of 2D chains. <i>Nature Materials</i> , 2017, 16, 932-937.	27.5	261
21	Synthesis, Characterization, and Gas Permeation Properties of a Novel Group of Polymers with Intrinsic Microporosity: PIM-Polyimides. <i>Macromolecules</i> , 2009, 42, 7881-7888.	4.8	250
22	Catalysis by microporous phthalocyanine and porphyrin network polymers. <i>Journal of Materials Chemistry</i> , 2008, 18, 573-578.	6.7	246
23	Nanoporous molecular crystals. <i>Journal of Materials Chemistry</i> , 2010, 20, 10588.	6.7	240
24	Hydrophilic microporous membranes for selective ion separation and flow-battery energy storage. <i>Nature Materials</i> , 2020, 19, 195-202.	27.5	237
25	Engineering of dendrimer surfaces to enhance transepithelial transport and reduce cytotoxicity. <i>Pharmaceutical Research</i> , 2003, 20, 1543-1550.	3.5	231
26	Atomistic packing model and free volume distribution of a polymer with intrinsic microporosity (PIM-1). <i>Journal of Membrane Science</i> , 2008, 318, 84-99.	8.2	227
27	Polyamidoamine Starburst® dendrimers as solubility enhancers. <i>International Journal of Pharmaceutics</i> , 2000, 197, 239-241.	5.2	211
28	Highly Conductive Anion-Exchange Membranes from Microporous Träger's Base Polymers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11499-11502.	13.8	206
29	The potential of organic polymer-based hydrogen storage materials. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1802.	2.8	197
30	Heme-Like Coordination Chemistry Within Nanoporous Molecular Crystals. <i>Science</i> , 2010, 327, 1627-1630.	12.6	187
31	Phthalocyanine-based nanoporous network polymers. <i>Chemical Communications</i> , 2002, , 2780-2781.	4.1	179
32	Microporous Polymers as Potential Hydrogen Storage Materials. <i>Macromolecular Rapid Communications</i> , 2007, 28, 995-1002.	3.9	176
33	Phthalocyanine-containing polymers. <i>Journal of Materials Chemistry</i> , 2000, 10, 1979-1995.	6.7	169
34	Polymers of Intrinsic Microporosity. <i>ISRN Materials Science</i> , 2012, 2012, 1-16.	1.0	165
35	A highly permeable polyimide with enhanced selectivity for membrane gas separations. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4874-4877.	10.3	159
36	Highly Permeable Benzotriptycene-Based Polymer of Intrinsic Microporosity. <i>ACS Macro Letters</i> , 2015, 4, 912-915.	4.8	159

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37	Porphyrin-based nanoporous network polymers. <i>Chemical Communications</i> , 2002, , 2782-2783.	4.1	157
38	Polymers of Intrinsic Microporosity Derived from Bis(phenazyl) Monomers. <i>Macromolecules</i> , 2008, 41, 1640-1646.	4.8	150
39	Sulfonated Microporous Polymer Membranes with Fast and Selective Ion Transport for Electrochemical Energy Conversion and Storage. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9564-9573.	13.8	145
40	Synthesis and gas permeation properties of novel spirobisindane-based polyimides of intrinsic microporosity. <i>Polymer Chemistry</i> , 2013, 4, 3813.	3.9	141
41	The synthesis of polymers of intrinsic microporosity (PIMs). <i>Science China Chemistry</i> , 2017, 60, 1023-1032.	8.2	134
42	Nitrogen and Hydrogen Adsorption by an Organic Microporous Crystal. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3273-3277.	13.8	132
43	A nanoporous network polymer derived from hexaazatrinaphthylene with potential as an adsorbent and catalyst support. <i>Journal of Materials Chemistry</i> , 2003, 13, 2721-2726.	6.7	128
44	The control of molecular self-association in spin-coated films of substituted phthalocyanines. <i>Journal of Materials Chemistry</i> , 2000, 10, 39-45.	6.7	115
45	Enhancing the Gas Permeability of Tröger's Base Derived Polyimides of Intrinsic Microporosity. <i>Macromolecules</i> , 2016, 49, 4147-4154.	4.8	115
46	Synthesis and characterisation of some 1,4,8,11,15,18,22,25-octa-alkyl- and 1,4,8,11,15,18-hexa-alkyl-22,25-bis(carboxypropyl)phthalocyanines. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1990, , 1169.	0.9	107
47	Surface modification of the biomedical polymer poly(ethylene terephthalate). <i>Analyst</i> , The, 1993, 118, 463-474.	3.5	107
48	The synthesis of microporous polymers using Tröger's base formation. <i>Polymer Chemistry</i> , 2014, 5, 5267-5272.	3.9	105
49	Synthesis and Gas Permeation Properties of Spirobischromane-Based Polymers of Intrinsic Microporosity. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1137-1146.	2.2	104
50	Molecular Modeling and Gas Permeation Properties of a Polymer of Intrinsic Microporosity Composed of Ethanoanthracene and Tröger's Base Units. <i>Macromolecules</i> , 2014, 47, 7900-7916.	4.8	104
51	Adsorption Studies of a Microporous Phthalocyanine Network Polymer. <i>Langmuir</i> , 2006, 22, 4225-4229.	3.5	103
52	Polymers of Intrinsic Microporosity (PIMs). <i>Polymer</i> , 2020, 202, 122736.	3.8	94
53	Toward an Understanding of the Microstructure and Interfacial Properties of PIMs/ZIF-8 Mixed Matrix Membranes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27311-27321.	8.0	93
54	A highly rigid and gas selective methanopentacene-based polymer of intrinsic microporosity derived from Tröger's base polymerization. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5661-5667.	10.3	92

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55	The synthesis, chain-packing simulation and long-term gas permeability of highly selective spirobifluorene-based polymers of intrinsic microporosity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10507-10514.	10.3	91
56	Silicon Phthalocyanines with Axial Dendritic Substituents. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1092-1094.	13.8	83
57	Novel Spirobisindanes for Use as Precursors to Polymers of Intrinsic Microporosity. <i>Organic Letters</i> , 2008, 10, 2641-2643.	4.6	83
58	Gas Permeability of Hexaphenylbenzene Based Polymers of Intrinsic Microporosity. <i>Macromolecules</i> , 2014, 47, 8320-8327.	4.8	82
59	1,4,8,11,15,18,22,25-Octa-alkyl phthalocyanines: new discotic liquid crystal materials. <i>Journal of the Chemical Society Chemical Communications</i> , 1987, , 1086.	2.0	81
60	Metastable Ionic Diodes Derived from an Amine-Based Polymer of Intrinsic Microporosity. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10751-10754.	13.8	81
61	The Synthesis and Glass-Forming Properties of Phthalocyanine-Containing Poly(aryl ether) Dendrimers. <i>Chemistry - A European Journal</i> , 2000, 6, 4630-4636.	3.3	80
62	Polymers of Intrinsic Microporosity (PIMs): High Free Volume Polymers for Membrane Applications. <i>Macromolecular Symposia</i> , 2006, 245-246, 403-405.	0.7	80
63	Synthesis and characterisation of some novel phthalocyanines containing both oligo(ethyleneoxy) and alkyl or alkoxy side-chains: novel unsymmetrical discotic mesogens. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1995, , 1817.	0.9	78
64	Pervaporation of alcohols through highly permeable PIM-1 polymer films. <i>Polymer Science - Series A</i> , 2008, 50, 444-450.	1.0	78
65	Hexaphenylbenzene-based polymers of intrinsic microporosity. <i>Chemical Communications</i> , 2011, 47, 6822.	4.1	77
66	A novel time lag method for the analysis of mixed gas diffusion in polymeric membranes by on-line mass spectrometry: Method development and validation. <i>Journal of Membrane Science</i> , 2018, 561, 39-58.	8.2	77
67	New asymmetric substitution of phthalocyanines: Derivatives designed for deposition as Langmuir-Blodgett films. <i>Thin Solid Films</i> , 1988, 159, 469-478.	1.8	72
68	Physical aging of polymers of intrinsic microporosity: a SAXS/WAXS study. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11742-11752.	10.3	71
69	Lyotropic and thermotropic mesophase formation of novel tetra[oligo(ethyleneoxy)]-substituted phthalocyanines. <i>Journal of Materials Chemistry</i> , 1994, 4, 1153.	6.7	67
70	The Synthesis of Some Phthalocyanines and Naphthalocyanines Derived from Sterically Hindered Phenols. <i>Chemistry - A European Journal</i> , 1998, 4, 1633-1640.	3.3	66
71	Laser Chemosensor with Rapid Responsivity and Inherent Memory Based on a Polymer of Intrinsic Microporosity. <i>Sensors</i> , 2011, 11, 2478-2487.	3.8	66
72	Inexpensive polyphenylene network polymers with enhanced microporosity. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10110-10113.	10.3	66

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73	Tribenzotriquinacene-based polymers of intrinsic microporosity. <i>Polymer Chemistry</i> , 2011, 2, 2257.	3.9	64
74	A Phthalocyanine Clathrate of Cubic Symmetry Containing Interconnected Solvent-Filled Voids of Nanometer Dimensions. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7546-7549.	13.8	63
75	Synthesis of cardo-polymers using Tröger's base formation. <i>Polymer Chemistry</i> , 2014, 5, 5255.	3.9	63
76	The origin of size-selective gas transport through polymers of intrinsic microporosity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20121-20126.	10.3	63
77	Spectroscopic and X-ray diffraction study of Langmuir-Blodgett films of some 1,4,8,11,15,18-hexaalkyl-22,25-bis(carboxypropyl)phthalocyanines. <i>Journal of Materials Chemistry</i> , 1991, 1, 121-127.	6.7	62
78	A bio-inspired O ₂ -tolerant catalytic CO ₂ reduction electrode. <i>Science Bulletin</i> , 2019, 64, 1890-1895.	9.0	61
79	Polymers of Intrinsic Microporosity Containing Tröger Base for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 16939-16950.	3.7	60
80	Toward Effective CO ₂ /CH ₄ Separations by Sulfur-Containing PIMs via Predictive Molecular Simulations. <i>Macromolecules</i> , 2013, 46, 5371-5380.	4.8	58
81	Temperature Dependence of Gas Permeation and Diffusion in Triptycene-Based Ultraporous Polymers of Intrinsic Microporosity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36475-36482.	8.0	58
82	Development of efficient aqueous organic redox flow batteries using ion-sieving sulfonated polymer membranes. <i>Nature Communications</i> , 2022, 13, .	12.8	58
83	Triptycene-Based Organic Molecules of Intrinsic Microporosity. <i>Organic Letters</i> , 2014, 16, 1848-1851.	4.6	55
84	Water desalination concept using an ionic rectifier based on a polymer of intrinsic microporosity (PIM). <i>Journal of Materials Chemistry A</i> , 2015, 3, 15849-15853.	10.3	54
85	Characterizing the Structure of Organic Molecules of Intrinsic Microporosity by Molecular Simulations and X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2013, 117, 355-364.	2.6	51
86	Phthalocyanine-centred and naphthalocyanine-centred aryl ether dendrimers with oligo(ethyleneoxy) surface groups. <i>Tetrahedron</i> , 2003, 59, 3863-3872.	1.9	50
87	Phthalocyanine-Containing Dendrimers. <i>Advanced Materials</i> , 1999, 11, 67-69.	21.0	49
88	The Synthesis of Organic Molecules of Intrinsic Microporosity Designed to Frustrate Efficient Molecular Packing. <i>Chemistry - A European Journal</i> , 2016, 22, 2466-2472.	3.3	49
89	Temperature and Pressure Dependence of Gas Permeation in a Microporous Tröger's Base Polymer Membranes, 2018, 8, 132.	3.0	49
90	Tunable Porous Organic Crystals: Structural Scope and Adsorption Properties of Nanoporous Steroidal Ureas. <i>Journal of the American Chemical Society</i> , 2013, 135, 16912-16925.	13.7	47

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91	Highly Conductive Anion-Exchange Membranes from Microporous Tröger's Base Polymers. <i>Angewandte Chemie</i> , 2016, 128, 11671-11674.	2.0	47
92	Mitigation of Physical Aging with Mixed Matrix Membranes Based on Cross-Linked PIM-1 Fillers and PIM-1. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46756-46766.	8.0	47
93	Polymer of intrinsic microporosity (PIM) films and membranes in electrochemical energy storage and conversion: A mini-review. <i>Electrochemistry Communications</i> , 2020, 118, 106798.	4.7	45
94	Heterogeneous organocatalysts composed of microporous polymer networks assembled by Tröger's base formation. <i>Polymer Chemistry</i> , 2014, 5, 5262.	3.9	44
95	1,4,8,11,15,18-Hexa-alkyl-22,25-bis(carboxypropyl)phthalocyanines: materials designed for deposition as Langmuir-Blodgett films. <i>Journal of the Chemical Society Chemical Communications</i> , 1987, , 1148-1150.	2.0	43
96	Microporous polymeric materials. <i>Materials Today</i> , 2004, 7, 40-46.	14.2	43
97	Polymers of intrinsic microporosity in electrocatalysis: Novel pore rigidity effects and lamella palladium growth. <i>Electrochimica Acta</i> , 2014, 128, 3-9.	5.2	42
98	A Cationic Diode Based on Asymmetric Nafion Film Deposits. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11272-11278.	8.0	42
99	Novel polymers of intrinsic microporosity (PIMs) derived from 1,1-spiro-bis(1,2,3,4-tetrahydronaphthalene)-based monomers. <i>Tetrahedron Letters</i> , 2009, 50, 5954-5957.	1.4	41
100	Phthalocyanine-centred aryl ether dendrimers with oligo(ethyleneoxy) surface groups. <i>Tetrahedron Letters</i> , 2001, 42, 813-816.	1.4	40
101	Simulated swelling during low-temperature N_2 adsorption in polymers of intrinsic microporosity. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20161-20169.	2.8	40
102	Acid-Base Interaction Enhancing Oxygen Tolerance in Electrocatalytic Carbon Dioxide Reduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10918-10923.	13.8	40
103	Synthesis and characterisation of some 1,4,8,11,15,18,22,25-octa(alkoxymethyl)phthalocyanines; a new series of discotic liquid crystals. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1991, , 3053.	0.9	39
104	Synthesis and Characterization of Mesogenic Phthalocyanines Containing a Single Poly(oxyethylene) Side Chain: An Example of Steric Disturbance of the Hexagonal Columnar Mesophase. <i>Macromolecules</i> , 1996, 29, 913-917.	4.8	39
105	Intrinsically Porous Polymer Protects Catalytic Gold Particles for Enzymeless Glucose Oxidation. <i>Electroanalysis</i> , 2014, 26, 904-909.	2.9	39
106	The Synthesis of Symmetrical Phthalocyanines. , 2003, , 61-124.		38
107	The synthetic quest for "splendid isolation"™ within phthalocyanine materials. <i>Journal of Porphyrins and Phthalocyanines</i> , 2000, 04, 460-464.	0.8	37
108	Design principles for microporous organic solids from predictive computational screening. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11950.	10.3	37

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109	Imputation of missing gas permeability data for polymer membranes using machine learning. <i>Journal of Membrane Science</i> , 2021, 627, 119207.	8.2	37
110	Molecular assemblies of novel amphiphilic phthalocyanines: an investigation into the self-ordering properties of complex functional materials. <i>Journal of Materials Chemistry</i> , 1998, 8, 2371-2378.	6.7	36
111	Clathrate Formation from Octaazaphthalocyanines Possessing Bulky Phenoxy Substituents: A New Cubic Crystal Containing Solvent-Filled, Nanoscale Voids. <i>Chemistry - A European Journal</i> , 2008, 14, 4810-4815.	3.3	36
112	Ultrathin Composite Polymeric Membranes for CO ₂ /N ₂ Separation with Minimum Thickness and High CO ₂ Permeance. <i>ChemSusChem</i> , 2017, 10, 4014-4017.	6.8	36
113	Polymer engineering by blending PIM-1 and 6FDA-DAM for ZIF-8 containing mixed matrix membranes applied to CO ₂ separations. <i>Separation and Purification Technology</i> , 2019, 224, 456-462.	7.9	36
114	Effect of Block Architecture on the Gelation of Aqueous Solutions of Oxyethylene/Oxybutylene Block Copolymers. <i>Langmuir</i> , 1997, 13, 1860-1861.	3.5	35
115	A Novel Time Lag Method for the Analysis of Mixed Gas Diffusion in Polymeric Membranes by On-Line Mass Spectrometry: Pressure Dependence of Transport Parameters. <i>Membranes</i> , 2018, 8, 73.	3.0	35
116	Effect of Backbone Rigidity on the Glass Transition of Polymers of Intrinsic Microporosity Probed by Fast Scanning Calorimetry. <i>ACS Macro Letters</i> , 2019, 8, 1022-1028.	4.8	35
117	Preparation of substituted tetrabenzotriazaporphyrins and a tetranaphthotriazaporphyrin: a route to mono-meso-substituted phthalocyanine analogs. <i>Journal of Organic Chemistry</i> , 1990, 55, 2186-2190.	3.2	34
118	Aging of polymers of intrinsic microporosity tracked by methanol vapour permeation. <i>Journal of Membrane Science</i> , 2016, 520, 895-906.	8.2	34
119	Thermotropic and Lyotropic Mesophase Behavior of Some Novel Phthalocyanine-Centered Poly(oxyethylene)s. <i>Macromolecules</i> , 1996, 29, 1854-1856.	4.8	33
120	Unusual temperature dependence of the positron lifetime in a polymer of intrinsic microporosity. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, 190-192.	2.4	32
121	A Study of Lyotropic Mesophases of Concentrated Solutions of a Triblock Copolymer of Ethylene Oxide and 1,2-Butylene Oxide, E16B10E16, Using Rheometry, Polarized Light Microscopy, and Small-Angle X-ray Scattering. <i>Langmuir</i> , 1998, 14, 5782-5789.	3.5	31
122	Title is missing!. <i>Journal of Materials Chemistry</i> , 2001, 11, 2784-2789.	6.7	31
123	Highly Permeable Matrimid®/PIM-EA(H ₂)-TB Blend Membrane for Gas Separation. <i>Polymers</i> , 2019, 11, 46.	4.5	31
124	Molecular assemblies in discotic mesophases and Langmuir-Blodgett films of 1,4,8,11,15,18,22,25-octasubstituted phthalocyanines. <i>Chemistry of Materials</i> , 1989, 1, 287-289.	6.7	30
125	Macrodiscotic liquid crystals derived from planar phthalocyanine oligomers. <i>Tetrahedron Letters</i> , 2004, 45, 4865-4868.	1.4	30
126	Methane oxidation using silica-supported N-bridged di-iron phthalocyanine catalyst. <i>Journal of Catalysis</i> , 2012, 290, 177-185.	6.2	30

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127	pH-induced reversal of ionic diode polarity in 300 nm thin membranes based on a polymer of intrinsic microporosity. <i>Electrochemistry Communications</i> , 2016, 69, 41-45.	4.7	30
128	Highly active manganese porphyrin-based microporous network polymers for selective oxidation reactions. <i>Journal of Catalysis</i> , 2019, 369, 133-142.	6.2	30
129	Triphasic Nature of Polymers of Intrinsic Microporosity Induces Storage and Catalysis Effects in Hydrogen and Oxygen Reactivity at Electrode Surfaces. <i>ChemElectroChem</i> , 2019, 6, 252-259.	3.4	30
130	Polymers with intrinsic microporosity (PIMs) for targeted CO ₂ reduction to ethylene. <i>Chemosphere</i> , 2020, 248, 125993.	8.2	30
131	Enhancing the rigidity of a network polymer of intrinsic microporosity by the combined use of phthalocyanine and triptycene components. <i>Polymer Chemistry</i> , 2011, 2, 2190.	3.9	29
132	A porphyrin-based microporous network polymer that acts as an efficient catalyst for cyclooctene and cyclohexane oxidation under mild conditions. <i>Catalysis Communications</i> , 2017, 99, 100-104.	3.3	29
133	Gas sorption in polymers of intrinsic microporosity: The difference between solubility coefficients determined via time-lag and direct sorption experiments. <i>Journal of Membrane Science</i> , 2019, 570-571, 522-536.	8.2	29
134	Ultraparpermeable Polymers of Intrinsic Microporosity Containing Spirocyclic Units with Fused Triptycenes. <i>Advanced Functional Materials</i> , 2021, 31, 2104474.	14.9	29
135	Stable glass formation by a hexagonal ordered columnar mesophase of a low molar mass phthalocyanine derivative. <i>Liquid Crystals</i> , 1995, 19, 887-889.	2.2	28
136	The synthesis of metal-free octaazaphthalocyanine derivatives containing bulky phenoxy substituents to prevent self-association. <i>Tetrahedron Letters</i> , 2007, 48, 7358-7361.	1.4	28
137	High density heterogenisation of molecular electrocatalysts in a rigid intrinsically microporous polymer host. <i>Electrochemistry Communications</i> , 2014, 46, 26-29.	4.7	28
138	Fabrication of ultrathin films containing the metal organic framework Fe-MIL-88B-NH ₂ by the Langmuir-Blodgett technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 470, 161-170.	4.7	28
139	Intrinsically microporous polymer slows down fuel cell catalyst corrosion. <i>Electrochemistry Communications</i> , 2015, 59, 72-76.	4.7	28
140	The synthesis of robust, polymeric hole-transport materials from oligoarylamine substituted styrenes. <i>Journal of Materials Chemistry</i> , 2007, 17, 2088.	6.7	27
141	Synthesis and properties of new aromatic polyimides containing spirocyclic structures. <i>Polymer</i> , 2018, 137, 283-292.	3.8	26
142	Hydrogen Separation at High Temperature with Dense and Asymmetric Membranes Based on PIM-EA(H ₂)-TB/PBI Blends. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16909-16916.	3.7	26
143	The Self-Ordering Properties of Novel Phthalocyanines with Out-of-Plane Alkyl Substituents. <i>Chemistry - A European Journal</i> , 2007, 13, 228-234.	3.3	25
144	Electrocatalytic Carbohydrate Oxidation with 4-Benzoyloxy-TEMPO Heterogenised in a Polymer of Intrinsic Microporosity. <i>Electrochimica Acta</i> , 2015, 160, 195-201.	5.2	25

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145	Intrinsically Microporous Polymer Retains Porosity in Vacuum Thermolysis to Electroactive Heterocarbon. <i>Langmuir</i> , 2015, 31, 12300-12306.	3.5	25
146	Polymers of Intrinsic Microporosity in Triphasic Electrochemistry: Perspectives. <i>ChemElectroChem</i> , 2019, 6, 4332-4342.	3.4	25
147	Thin film composite membranes based on a polymer of intrinsic microporosity derived from Tröger's base: A combined experimental and computational investigation of the role of residual casting solvent. <i>Journal of Membrane Science</i> , 2019, 569, 17-31.	8.2	25
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