Neil B Mckeown

List of Publications by Year
in descending order

		12330	9589
247 papers	22,076 citations	69 h-index	142 g-index
264 all docs	264 docs citations	264 times ranked	11636 citing authors

#	Article	IF	Citations
1	Enhancement of performance and stability of thin-film nanocomposite membranes for organic solvent nanofiltration using hypercrosslinked polymer additives. Journal of Membrane Science, 2022, 644, 120172.	8.2	11
2	The structure-property relationships of Polymers of Intrinsic Microporosity (PIMs). Current Opinion in Chemical Engineering, 2022, 36, 100785.	7.8	15
3	Advanced methods for analysis of mixed gas diffusion in polymeric membranes. Journal of Membrane Science, 2022, 648, 120356.	8.2	10
4	Effects of g-C₃N₄ Heterogenization into Intrinsically Microporous Polymers on the Photocatalytic Generation of Hydrogen Peroxide. ACS Applied Materials & Interfaces, 2022, 14, 19938-19948.	8.0	17
5	Development of efficient aqueous organic redox flow batteries using ion-sieving sulfonated polymer membranes. Nature Communications, 2022, 13, .	12.8	58
6	Upgrading of raw biogas using membranes based on the ultrapermeable polymer of intrinsic microporosity PIM-TMN-Trip. Journal of Membrane Science, 2021, 618, 118694.	8.2	23
7	Optimization of the fabrication of amidoxime modified PIM-1 electrospun fibres for use as breathable and reactive materials. Polymer, 2021, 213, 123205.	3.8	15
8	Control Over the Morphology of Electrospun Microfibrous Mats of a Polymer of Intrinsic Microporosity. Membranes, 2021, 11, 422.	3.0	7
9	Ionic Diode and Molecular Pump Phenomena Associated with Caffeic Acid Accumulated into an Intrinsically Microporous Polyamine (PIMâ€•EAâ€•TB). ChemElectroChem, 2021, 8, 2044-2051.	3.4	7
10	Imputation of missing gas permeability data for polymer membranes using machine learning. Journal of Membrane Science, 2021, 627, 119207.	8.2	37
11	Ultrapermeable Polymers of Intrinsic Microporosity Containing Spirocyclic Units with Fused Triptycenes. Advanced Functional Materials, 2021, 31, 2104474.	14.9	29
12	Sizeâ€•Selective Photoelectrochemical Reactions in Microporous Environments: Clark Probe Investigation of Pt@gâ€•C₃N₄ Embedded into Intrinsically Microporous Polymer (PIMâ€•1). ChemElectroChem, 2021, 8, 3499-3505.	3.4	6
13	Non-enzymatic electrochemical cholesterol sensor based on strong host-guest interactions with a polymer of intrinsic microporosity (PIM) with DFT study. Analytical and Bioanalytical Chemistry, 2021, 413, 6523-6533.	3.7	7
14	Effective electroosmotic transport of water in an intrinsically microporous polyamine (PIM-EA-TB). Electrochemistry Communications, 2021, 130, 107110.	4.7	5
15	Shuttle-effect-free sodiumâ€“sulfur batteries derived from a TrÃ¶ger's base polymer of intrinsic microporosity. Journal of Power Sources, 2021, 513, 230539.	7.8	6
16	Catechin or quercetin guests in an intrinsically microporous polyamine (PIM-EA-TB) host: accumulation, reactivity, and release. RSC Advances, 2021, 11, 27432-27442.	3.6	4
17	Synthesis and gas permeation properties of tetraoxidethianthrene-based polymers of intrinsic microporosity. Journal of Materials Chemistry A, 2021, 9, 2840-2849.	10.3	17
18	Polymers of Intrinsic Microporosity in the Design of Electrochemical Multicomponent and Multiphase Interfaces. Analytical Chemistry, 2021, 93, 1213-1220.	6.5	19

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19	Hydrogen Peroxide Versus Hydrogen Generation at Bipolar Pd/Au Nano-catalysts Grown into an Intrinsically Microporous Polyamine (PIM-EA-TB). Electrocatalysis, 2021, 12, 771-784.	3.0	3
20	Low Frequency Vibrations and Diffusion in Disordered Polymers Bearing an Intrinsic Microporosity as Revealed by Neutron Scattering. Crystals, 2021, 11, 1482.	2.2	2
21	Intrinsically Microporous Polymer Nanosheets for Highâ€Performance Gas Separation Membranes. Macromolecular Rapid Communications, 2020, 41, e1900572.	3.9	23
22	Hydrophilic microporous membranes for selective ion separation and flow-battery energy storage. Nature Materials, 2020, 19, 195-202.	27.5	237
23	Correlating Gas Permeability and Youngâ€™s Modulus during the Physical Aging of Polymers of Intrinsic Microporosity Using Atomic Force Microscopy. Industrial & Engineering Chemistry Research, 2020, 59, 5381-5391.	3.7	25
24	Tailoring molecular interactions between microporous polymers in high performance mixed matrix membranes for gas separations. Nanoscale, 2020, 12, 17405-17410.	5.6	18
25	Hierarchically structured carbon electrodes derived from intrinsically microporous TrÃ¶gerâ€™s base polymers for high-performance supercapacitors. Applied Surface Science, 2020, 530, 147146.	6.1	12
26	Polymer of intrinsic microporosity (PIM) films and membranes in electrochemical energy storage and conversion: A mini-review. Electrochemistry Communications, 2020, 118, 106798.	4.7	45
27	Mitigation of Physical Aging with Mixed Matrix Membranes Based on Cross-Linked PIM-1 Fillers and PIM-1. ACS Applied Materials & Interfaces, 2020, 12, 46756-46766.	8.0	47
28	Photoelectroanalytical Oxygen Detection with Titanate Nanosheet â€“ Platinum Hybrids Immobilised into a Polymer of Intrinsic Microporosity (PIMâ€1). Electroanalysis, 2020, 32, 2756-2763.	2.9	5
29	Indirect photo-electrochemical detection of carbohydrates with Pt@g-C3N4 immobilised into a polymer of intrinsic microporosity (PIM-1) and attached to a palladium hydrogen capture membrane. Bioelectrochemistry, 2020, 134, 107499.	4.6	12
30	Sulfonated Microporous Polymer Membranes with Fast and Selective Ion Transport for Electrochemical Energy Conversion and Storage. Angewandte Chemie, 2020, 132, 9651-9660.	2.0	20
31	Acidâ€“Base Interaction Enhancing Oxygen Tolerance in Electrocatalytic Carbon Dioxide Reduction. Angewandte Chemie - International Edition, 2020, 59, 10918-10923.	13.8	40
32	Acidâ€“Base Interaction Enhancing Oxygen Tolerance in Electrocatalytic Carbon Dioxide Reduction. Angewandte Chemie, 2020, 132, 11010-11015.	2.0	6
33	Flue gas purification with membranes based on the polymer of intrinsic microporosity PIM-TMN-Trip. Separation and Purification Technology, 2020, 242, 116814.	7.9	14
34	Sulfonated Microporous Polymer Membranes with Fast and Selective Ion Transport for Electrochemical Energy Conversion and Storage. Angewandte Chemie - International Edition, 2020, 59, 9564-9573.	13.8	145
35	Polymers of Intrinsic Microporosity (PIMs). Polymer, 2020, 202, 122736.	3.8	94
36	Organic Molecules of Intrinsic Microporosity. Organic Materials, 2020, 02, 020-025.	2.0	10

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37	Polymers with intrinsic microporosity (PIMs) for targeted CO2 reduction to ethylene. Chemosphere, 2020, 248, 125993.	8.2	30
38	The immobilisation and reactivity of Fe(CN)63â^'/4â^' in an intrinsically microporous polyamine (PIM-EA-TB). Journal of Solid State Electrochemistry, 2020, 24, 2797-2806.	2.5	14
39	Effect of Bridgehead Methyl Substituents on the Gas Permeability of TrÃ¶gerâ€™s-Base Derived Polymers of Intrinsic Microporosity. Membranes, 2020, 10, 62.	3.0	21
40	Auto-fluorescent PAMAM-based dendritic molecules and their potential application in pharmaceutical sciences. International Journal of Pharmaceutics, 2020, 579, 119187.	5.2	4
41	The origin of size-selective gas transport through polymers of intrinsic microporosity. Journal of Materials Chemistry A, 2019, 7, 20121-20126.	10.3	63
42	Effect of Backbone Rigidity on the Glass Transition of Polymers of Intrinsic Microporosity Probed by Fast Scanning Calorimetry. ACS Macro Letters, 2019, 8, 1022-1028.	4.8	35
43	Charge Transfer Hybrids of Graphene Oxide and the Intrinsically Microporous Polymer PIM-1. ACS Applied Materials & Interfaces, 2019, 11, 31191-31199.	8.0	9
44	Redefining the Robeson upper bounds for CO₂/CH₄ and CO₂/N₂ separations using a series of ultrapermeable benzotriptycene-based polymers of intrinsic microporosity. Energy and Environmental Science, 2019, 12, 2733-2740.	30.8	509
45	An Interfacial Layer Based on Polymers of Intrinsic Microporosity to Suppress Dendrite Growth on Li Metal Anodes. Chemistry - A European Journal, 2019, 25, 12052-12057.	3.3	24
46	Polymers of Intrinsic Microporosity in Triphasic Electrochemistry: Perspectives. ChemElectroChem, 2019, 6, 4332-4342.	3.4	25
47	Polymer engineering by blending PIM-1 and 6FDA-DAM for ZIF-8 containing mixed matrix membranes applied to CO2 separations. Separation and Purification Technology, 2019, 224, 456-462.	7.9	36
48	Highly stable fullerene-based porous molecular crystals with open metal sites. Nature Materials, 2019, 18, 740-745.	27.5	18
49	Photoelectrochemistry of immobilised Pt@g-C3N4 mediated by hydrogen and enhanced by a polymer of intrinsic microporosity PIM-1. Electrochemistry Communications, 2019, 103, 1-6.	4.7	18
50	A bio-inspired O2-tolerant catalytic CO2 reduction electrode. Science Bulletin, 2019, 64, 1890-1895.	9.0	61
51	Highly Permeable MatrimidÂ®/PIM-EA(H2)-TB Blend Membrane for Gas Separation. Polymers, 2019, 11, 46.	4.5	31
52	Biphasic Voltammetry and Spectroelectrochemistry in Polymer of Intrinsic Microporosityâ€"4-(3-Phenylpropyl)-Pyridine Organogel/Aqueous Electrolyte Systems: Reactivity of MnPc Versus MnTPP. Electrocatalysis, 2019, 10, 295-304.	3.0	4
53	Highly active manganese porphyrin-based microporous network polymers for selective oxidation reactions. Journal of Catalysis, 2019, 369, 133-142.	6.2	30
54	Polymer of Intrinsic Microporosity (PIMâ€7) Coating Affects Triphasic Palladium Electrocatalysis. ChemElectroChem, 2019, 6, 4307-4317.	3.4	9

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55	Gas sorption in polymers of intrinsic microporosity: The difference between solubility coefficients determined via time-lag and direct sorption experiments. Journal of Membrane Science, 2019, 570-571, 522-536.	8.2	29
56	The fabrication of ultrathin films and their gas separation performance from polymers of intrinsic microporosity with two-dimensional (2D) and three-dimensional (3D) chain conformations. Journal of Colloid and Interface Science, 2019, 536, 474-482.	9.4	20
57	Thin film composite membranes based on a polymer of intrinsic microporosity derived from TrÃ¶ger's base: A combined experimental and computational investigation of the role of residual casting solvent. Journal of Membrane Science, 2019, 569, 17-31.	8.2	25
58	Triphasic Nature of Polymers of Intrinsic Microporosity Induces Storage and Catalysis Effects in Hydrogen and Oxygen Reactivity at Electrode Surfaces. ChemElectroChem, 2019, 6, 252-259.	3.4	30
59	A perfect match. Nature Materials, 2018, 17, 216-217.	27.5	7
60	Synthesis and properties of new aromatic polyimides containing spirocyclic structures. Polymer, 2018, 137, 283-292.	3.8	26
61	Innovative methods in electrochemistry based on polymers of intrinsic microporosity. Current Opinion in Electrochemistry, 2018, 10, 61-66.	4.8	24
62	A novel time lag method for the analysis of mixed gas diffusion in polymeric membranes by on-line mass spectrometry: Method development and validation. Journal of Membrane Science, 2018, 561, 39-58.	8.2	77
63	A highly rigid and gas selective methanopentacene-based polymer of intrinsic microporosity derived from TrÃ¶ger's base polymerization. Journal of Materials Chemistry A, 2018, 6, 5661-5667.	10.3	92
64	Linking the Cu(II/I) potential to the onset of dynamic phenomena at corroding copper microelectrodes immersed in aqueous 0.5â€¯M NaCl. Electrochimica Acta, 2018, 260, 348-357.	5.2	9
65	One-step preparation of microporous Pd@cPIM composite catalyst film for triphasic electrocatalysis. Electrochemistry Communications, 2018, 86, 17-20.	4.7	14
66	Hydrogen Separation at High Temperature with Dense and Asymmetric Membranes Based on PIM-EA(H₂)-TB/PBI Blends. Industrial & Engineering Chemistry Research, 2018, 57, 16909-16916.	3.7	26
67	Temperature and Pressure Dependence of Gas Permeation in a Microporous TrÃ¶gerâ€™s Base Polymer. Membranes, 2018, 8, 132.	3.0	49
68	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. Membranes, 2018, 8, 73.	3.0	35
69	Temperature Dependence of Gas Permeation and Diffusion in Triptycene-Based Ultrapermeable Polymers of Intrinsic Microporosity. ACS Applied Materials & Interfaces, 2018, 10, 36475-36482.	8.0	58
70	The synthesis, chain-packing simulation and long-term gas permeability of highly selective spirobifluorene-based polymers of intrinsic microporosity. Journal of Materials Chemistry A, 2018, 6, 10507-10514.	10.3	91
71	Towards High Performance Metalâ€“Organic Frameworkâ€“Microporous Polymer Mixed Matrix Membranes: Addressing Compatibility and Limiting Aging by Polymer Doping. Chemistry - A European Journal, 2018, 24, 12796-12800.	3.3	24
72	Platinum Nanoparticle Inclusion into a Carbonized Polymer of Intrinsic Microporosity: Electrochemical Characteristics of a Catalyst for Electroless Hydrogen Peroxide Production. Nanomaterials, 2018, 8, 542.	4.1	8

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73	Gas Permeation Properties, Physical Aging, and Its Mitigation in High Free Volume Glassy Polymers. Chemical Reviews, 2018, 118, 5871-5911.	47.7	414
74	Ionic Diodes Based on Regenerated Î±â€Cellulose Films Deposited Asymmetrically onto a Microhole. ChemistrySelect, 2017, 2, 871-875.	1.5	7
75	Polymers of Intrinsic Microporosity derived from a carbocyclic analogue of TrÃ¶ger's base. Polymer, 2017, 126, 324-329.	3.8	11
76	A porphyrin-based microporous network polymer that acts as an efficient catalyst for cyclooctene and cyclohexane oxidation under mild conditions. Catalysis Communications, 2017, 99, 100-104.	3.3	29
77	Redox reactivity at silver microparticleâ€"glassy carbon contacts under a coating of polymer of intrinsic microporosity (PIM). Journal of Solid State Electrochemistry, 2017, 21, 2141-2146.	2.5	13
78	A Cationic Diode Based on Asymmetric Nafion Film Deposits. ACS Applied Materials & Interfaces, 2017, 9, 11272-11278.	8.0	42
79	Ultrathin Composite Polymeric Membranes for CO₂/N₂ Separation with Minimum Thickness and High CO₂ Permeance. ChemSusChem, 2017, 10, 4014-4017.	6.8	36
80	The synthesis of polymers of intrinsic microporosity (PIMs). Science China Chemistry, 2017, 60, 1023-1032.	8.2	134
81	Ionic Diode Characteristics at a Polymer of Intrinsic Microporosity (PIM) | Nafion â€œHeterojunctionâ€• Deposit on a Microhole Poly(ethyleneâ€terephthalate) Substrate. Electroanalysis, 2017, 29, 2217-2223.	2.9	11
82	Polymer ultrapermeability from the inefficient packing of 2D chains. Nature Materials, 2017, 16, 932-937.	27.5	261
83	Synthesis, crystallographic characterization and homogeneous catalytic activity of novel unsymmetric porphyrins. RSC Advances, 2017, 7, 50610-50618.	3.6	17
84	Carbonization of polymers of intrinsic microporosity to microporous heterocarbon: Capacitive pH measurements. Applied Materials Today, 2017, 9, 136-144.	4.3	11
85	High-Utilisation Nanoplatinum Catalyst (Pt@cPIM) Obtained via Vacuum Carbonisation in a Molecularly Rigid Polymer of Intrinsic Microporosity. Electrocatalysis, 2017, 8, 132-143.	3.0	12
86	Potassium cation induced ionic diode blocking for a polymer of intrinsic microporosity | nafion â€œheterojunctionâ€•on a microhole substrate. Electrochimica Acta, 2017, 258, 807-813.	5.2	21
87	The Synthesis of Organic Molecules of Intrinsic Microporosity Designed to Frustrate Efficient Molecular Packing. Chemistry - A European Journal, 2016, 22, 2466-2472.	3.3	49
88	Enhancing the Gas Permeability of TrÃ¶gerâ€™s Base Derived Polyimides of Intrinsic Microporosity. Macromolecules, 2016, 49, 4147-4154.	4.8	115
89	Reagentless Electrochemiluminescence from a Nanoparticulate Polymer of Intrinsic Microporosity (PIMâ€1) Immobilized onto Tinâ€Doped Indium Oxide. ChemElectroChem, 2016, 3, 2160-2164.	3.4	7
90	Aging of polymers of intrinsic microporosity tracked by methanol vapour permeation. Journal of Membrane Science, 2016, 520, 895-906.	8.2	34

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91	Toward an Understanding of the Microstructure and Interfacial Properties of PIMs/ZIF-8 Mixed Matrix Membranes. ACS Applied Materials & Interfaces, 2016, 8, 27311-27321.	8.0	93
92	Highly Conductive Anionâ€Exchange Membranes from Microporous TrÃ¶ger's Base Polymers. Angewandte Chemie - International Edition, 2016, 55, 11499-11502.	13.8	206
93	Molecularly Rigid Microporous Polyamine Captures and Stabilizes Conducting Platinum Nanoparticle Networks. ACS Applied Materials & Interfaces, 2016, 8, 22425-22430.	8.0	14
94	A hindered subphthalocyanine that forms crystals with included aromatic solvent but will not play ball with C₆₀. Journal of Porphyrins and Phthalocyanines, 2016, 20, 1034-1040.	0.8	5
95	Highly Conductive Anionâ€Exchange Membranes from Microporous TrÃ¶ger's Base Polymers. Angewandte Chemie, 2016, 128, 11671-11674.	2.0	47
96	Inexpensive polyphenylene network polymers with enhanced microporosity. Journal of Materials Chemistry A, 2016, 4, 10110-10113.	10.3	66
97	Contorted separation. Nature Materials, 2016, 15, 706-707.	27.5	21
98	pH-induced reversal of ionic diode polarity in 300 nm thin membranes based on a polymer of intrinsic microporosity. Electrochemistry Communications, 2016, 69, 41-45.	4.7	30
99	Fuel cell anode catalyst performance can be stabilized with a molecularly rigid film of polymers of intrinsic microporosity (PIM). RSC Advances, 2016, 6, 9315-9319.	3.6	16
100	Polymers of intrinsic microporosity in electrochemistry: Anion uptake and transport effects in thin film electrodes and in free-standing ionic diode membranes. Journal of Electroanalytical Chemistry, 2016, 779, 241-249.	3.8	21
101	Polymer of Intrinsic Microporosity Induces Host-Guest Substrate Selectivity in Heterogeneous 4-Benzoyloxy-TEMPO-Catalysed Alcohol Oxidations. Electrocatalysis, 2016, 7, 70-78.	3.0	18
102	Fabrication of ultrathin films containing the metal organic framework Fe-MIL-88B-NH 2 by the Langmuirâ€“Blodgett technique. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 470, 161-170.	4.7	28
103	Electrocatalytic Carbohydrate Oxidation with 4-Benzoyloxy-TEMPO Heterogenised in a Polymer of Intrinsic Microporosity. Electrochimica Acta, 2015, 160, 195-201.	5.2	25
104	Intrinsically microporous polymer slows down fuel cell catalyst corrosion. Electrochemistry Communications, 2015, 59, 72-76.	4.7	28
105	Water desalination concept using an ionic rectifier based on a polymer of intrinsic microporosity (PIM). Journal of Materials Chemistry A, 2015, 3, 15849-15853.	10.3	54
106	Intrinsically Microporous Polymer Retains Porosity in Vacuum Thermolysis to Electroactive Heterocarbon. Langmuir, 2015, 31, 12300-12306.	3.5	25
107	Highly Permeable Benzotriptycene-Based Polymer of Intrinsic Microporosity. ACS Macro Letters, 2015, 4, 912-915.	4.8	159
108	Polymers of intrinsic microporosity as high temperature templates for the formation of nanofibrous oxides. RSC Advances, 2015, 5, 73323-73326.	3.6	22

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109	Intrinsically Porous Polymer Protects Catalytic Gold Particles for Enzymeless Glucose Oxidation. Electroanalysis, 2014, 26, 904-909.	2.9	39
110	Triptycene Induced Enhancement of Membrane Gas Selectivity for Microporous TrÃ¶ger's Base Polymers. Advanced Materials, 2014, 26, 3526-3531.	21.0	347
111	Triptycene-Based Organic Molecules of Intrinsic Microporosity. Organic Letters, 2014, 16, 1848-1851.	4.6	55
112	Molecular Modeling and Gas Permeation Properties of a Polymer of Intrinsic Microporosity Composed of Ethanoanthracene and TrÃ¶gerâ€™s Base Units. Macromolecules, 2014, 47, 7900-7916.	4.8	104
113	Gas Permeability of Hexaphenylbenzene Based Polymers of Intrinsic Microporosity. Macromolecules, 2014, 47, 8320-8327.	4.8	82
114	Heterogeneous organocatalysts composed of microporous polymer networks assembled by TrÃ¶ger's base formation. Polymer Chemistry, 2014, 5, 5262.	3.9	44
115	Metastable Ionic Diodes Derived from an Amineâ€Based Polymer of Intrinsic Microporosity. Angewandte Chemie - International Edition, 2014, 53, 10751-10754.	13.8	81
116	Physical aging of polymers of intrinsic microporosity: a SAXS/WAXS study. Journal of Materials Chemistry A, 2014, 2, 11742-11752.	10.3	71
117	Synthesis of cardo-polymers using TrÃ¶ger's base formation. Polymer Chemistry, 2014, 5, 5255.	3.9	63
118	A highly permeable polyimide with enhanced selectivity for membrane gas separations. Journal of Materials Chemistry A, 2014, 2, 4874-4877.	10.3	159
119	High density heterogenisation of molecular electrocatalysts in a rigid intrinsically microporous polymer host. Electrochemistry Communications, 2014, 46, 26-29.	4.7	28
120	The synthesis of microporous polymers using TrÃ¶ger's base formation. Polymer Chemistry, 2014, 5, 5267-5272.	3.9	105
121	Centrotriindane- and triptindane-based polymers of intrinsic microporosity. Polymer, 2014, 55, 326-329.	3.8	23
122	Polymers of intrinsic microporosity in electrocatalysis: Novel pore rigidity effects and lamella palladium growth. Electrochimica Acta, 2014, 128, 3-9.	5.2	42
123	The synthesis and study of fluorescent PAMAM-based dendritic molecules. Tetrahedron, 2013, 69, 8439-8445.	1.9	6
124	In-situ coordination chemistry within cobalt-containing phthalocyanine nanoporous crystals. CrystEngComm, 2013, 15, 1545.	2.6	3
125	Simulated swelling during low-temperature N₂adsorption in polymers of intrinsic microporosity. Physical Chemistry Chemical Physics, 2013, 15, 20161-20169.	2.8	40
126	Tunable Porous Organic Crystals: Structural Scope and Adsorption Properties of Nanoporous Steroidal Ureas. Journal of the American Chemical Society, 2013, 135, 16912-16925.	13.7	47

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127	Design principles for microporous organic solids from predictive computational screening. Journal of Materials Chemistry A, 2013, 1, 11950.	10.3	37
128	An Efficient Polymer Molecular Sieve for Membrane Gas Separations. Science, 2013, 339, 303-307.	12.6	884
129	A polymer of intrinsic microporosity as the active binder to enhance adsorption/separation properties of composite hollow fibres. Microporous and Mesoporous Materials, 2013, 170, 105-112.	4.4	14
130	Polymers of Intrinsic Microporosity Containing TrÃ¶ger Base for CO₂ Capture. Industrial & Engineering Chemistry Research, 2013, 52, 16939-16950.	3.7	60
131	Efficient and Rapid Screening of Novel Adsorbents for Carbon Capture in the UK IGSCC Project. Energy Procedia, 2013, 37, 40-47.	1.8	15
132	The tetratriptycenoporphyrazines revisited. Journal of Porphyrins and Phthalocyanines, 2013, 17, 778-784.	0.8	2
133	Synthesis and gas permeation properties of novel spirobisindane-based polyimides of intrinsic microporosity. Polymer Chemistry, 2013, 4, 3813.	3.9	141
134	Toward Effective CO₂/CH₄ Separations by Sulfur-Containing PIMs via Predictive Molecular Simulations. Macromolecules, 2013, 46, 5371-5380.	4.8	58
135	Characterizing the Structure of Organic Molecules of Intrinsic Microporosity by Molecular Simulations and X-ray Scattering. Journal of Physical Chemistry B, 2013, 117, 355-364.	2.6	51
136	The unexpected formation of a dihydroisobenzofuran derivative from the addition of a Grignard reagent to a 1,3-indanedione. Arkivoc, 2013, 2012, 190-195.	0.5	0
137	Polymers of Intrinsic Microporosity. ISRN Materials Science, 2012, 2012, 1-16.	1.0	165
138	Intrinsic Microporosity Polymers (tbâ€"pims) Membrane of New Generation: Molecular Modelling and Permeation Properties. Procedia Engineering, 2012, 44, 113-115.	1.2	0
139	Analysis of Gas and Vapour Transport in Novel Polymers of Intrinsic Microporosity (PIMs). Procedia Engineering, 2012, 44, 150-151.	1.2	0
140	A Spirobifluoreneâ€Based Polymer of Intrinsic Microporosity with Improved Performance for Gas Separation. Advanced Materials, 2012, 24, 5930-5933.	21.0	306
141	Methane oxidation using silica-supported N-bridged di-iron phthalocyanine catalyst. Journal of Catalysis, 2012, 290, 177-185.	6.2	30
142	The synthesis and fluorescence properties of macromolecular components based on 1,8-naphthalimide derivatives and dimers. Tetrahedron Letters, 2012, 53, 808-810.	1.4	6
143	Crystal Structures of a Series of 1,1-Spiro-bis(1,2,3,4-tetrahydronaphthalene)-Based Derivatives. Journal of Chemical Crystallography, 2012, 42, 111-118.	1.1	3
144	Tribenzotriquinacene-based polymers of intrinsic microporosity. Polymer Chemistry, 2011, 2, 2257.	3.9	64

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145	Enhancing the rigidity of a network polymer of intrinsic microporosity by the combined use of phthalocyanine and triptycene components,. Polymer Chemistry, 2011, 2, 2190.	3.9	29
146	Predictable porosity. Nature Materials, 2011, 10, 563-564.	27.5	11
147	Hexaphenylbenzene-based polymers of intrinsic microporosity. Chemical Communications, 2011, 47, 6822.	4.1	77
148	Enhanced pulmonary absorption of a macromolecule through coupling to a sequence-specific phage display-derived peptide. Journal of Controlled Release, 2011, 151, 83-94.	9.9	22
149	Crystal Structures of 5,6,5â€²,6â€²-Tetramethoxy-1,1â€²-spirobisindane-3,3â€²-dione and two of its Fluorene Adducts. Journal of Chemical Crystallography, 2011, 41, 98-104.	1.1	8
150	Synthesis and Gas Permeation Properties of Spirobischromaneâ€Based Polymers of Intrinsic Microporosity. Macromolecular Chemistry and Physics, 2011, 212, 1137-1146.	2.2	104
151	Synthesis and crystal structure of a novel phthalocyanine-calixarene conjugate. Journal of Porphyrins and Phthalocyanines, 2011, 15, 686-690.	0.8	7
152	Laser Chemosensor with Rapid Responsivity and Inherent Memory Based on a Polymer of Intrinsic Microporosity. Sensors, 2011, 11, 2478-2487.	3.8	66
153	Highly permeable polymers for gas separation membranes. Polymer Chemistry, 2010, 1, 63.	3.9	308
154	Triptycene-Based Polymers of Intrinsic Microporosity: Organic Materials That Can Be Tailored for Gas Adsorption. Macromolecules, 2010, 43, 5287-5294.	4.8	275
155	Exploitation of Intrinsic Microporosity in Polymer-Based Materials. Macromolecules, 2010, 43, 5163-5176.	4.8	725
156	Heme-Like Coordination Chemistry Within Nanoporous Molecular Crystals. Science, 2010, 327, 1627-1630.	12.6	187
157	Nanoporous molecular crystals. Journal of Materials Chemistry, 2010, 20, 10588.	6.7	240
158	Nitrogen and Hydrogen Adsorption by an Organic Microporous Crystal. Angewandte Chemie - International Edition, 2009, 48, 3273-3277.	13.8	132
159	Novel polymers of intrinsic microporosity (PIMs) derived from 1,1-spiro-bis(1,2,3,4-tetrahydronaphthalene)-based monomers. Tetrahedron Letters, 2009, 50, 5954-5957.	1.4	41
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