

# Cara M Doherty

## List of Publications by Year in descending order

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124  
papers

9,064  
citations

36203

51  
h-index

42291

92  
g-index

129  
all docs

129  
docs citations

129  
times ranked

10480  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic mineralization of metal-organic frameworks as protective coatings for biomacromolecules. <i>Nature Communications</i> , 2015, 6, 7240.	5.8	1,077
2	MOF positioning technology and device fabrication. <i>Chemical Society Reviews</i> , 2014, 43, 5513-5560.	18.7	600
3	Nanocrack-regulated self-humidifying membranes. <i>Nature</i> , 2016, 532, 480-483.	13.7	362
4	Discriminative Separation of Gases by a "Molecular Trapdoor" Mechanism in Chabazite Zeolites. <i>Journal of the American Chemical Society</i> , 2012, 134, 19246-19253.	6.6	321
5	Ending Aging in Super Glassy Polymer Membranes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5322-5326.	7.2	275
6	Using Functional Nano- and Microparticles for the Preparation of Metal-Organic Framework Composites with Novel Properties. <i>Accounts of Chemical Research</i> , 2014, 47, 396-405.	7.6	264
7	Thermally Rearranged (TR) Polybenzoxazole: Effects of Diverse Imidization Routes on Physical Properties and Gas Transport Behaviors. <i>Macromolecules</i> , 2010, 43, 7657-7667.	2.2	226
8	A metal-organic framework with ultrahigh glass-forming ability. <i>Science Advances</i> , 2018, 4, eaao6827.	4.7	196
9	Hierarchically Porous Monolithic LiFePO <sub>4</sub> /Carbon Composite Electrode Materials for High Power Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2009, 21, 5300-5306.	3.2	189
10	Colloidal Crystal Templating to Produce Hierarchically Porous LiFePO <sub>4</sub> Electrode Materials for High Power Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2009, 21, 2895-2903.	3.2	163
11	Coordination cages as permanently porous ionic liquids. <i>Nature Chemistry</i> , 2020, 12, 270-275.	6.6	151
12	Metal-organic framework glasses with permanent accessible porosity. <i>Nature Communications</i> , 2018, 9, 5042.	5.8	147
13	Homochiral MOF-Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16928-16935.	7.2	141
14	Metal-organic frameworks for chemical sensing devices. <i>Materials Horizons</i> , 2021, 8, 2387-2419.	6.4	139
15	The effect of crosslinking temperature on the permeability of PDMS membranes: Evidence of extraordinary CO <sub>2</sub> and CH <sub>4</sub> gas permeation. <i>Separation and Purification Technology</i> , 2014, 122, 96-104.	3.9	128
16	Tuning microcavities in thermally rearranged polymer membranes for CO <sub>2</sub> capture. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4365.	1.3	126
17	Highly Selective and Permeable Microporous Polymer Membranes for Hydrogen Purification and CO <sub>2</sub> Removal from Natural Gas. <i>Chemistry of Materials</i> , 2018, 30, 5322-5332.	3.2	121
18	Lithiated Porous Aromatic Frameworks with Exceptional Gas Storage Capacity. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6639-6642.	7.2	112

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19	Cross-Linked Thermally Rearranged Poly(benzoxazole-co-imide) Membranes for Gas Separation. <i>Macromolecules</i> , 2013, 46, 8179-8189.	2.2	112
20	Patterning Techniques for Metal Organic Frameworks. <i>Advanced Materials</i> , 2012, 24, 3153-3168.	11.1	111
21	Tailoring Physical Aging in Super Glassy Polymers with Functionalized Porous Aromatic Frameworks for CO <sub>2</sub> Capture. <i>Chemistry of Materials</i> , 2015, 27, 4756-4762.	3.2	107
22	Hyperscrosslinked Additives for Ageless Gas Separation Membranes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1998-2001.	7.2	105
23	Nafion <sup>®</sup> Carbon Nanocomposite Membranes Prepared Using Hydrothermal Carbonization for Proton Exchange Membrane Fuel Cells. <i>Advanced Functional Materials</i> , 2010, 20, 4394-4399.	7.8	99
24	Combining UV Lithography and an Imprinting Technique for Patterning Metal Organic Frameworks. <i>Advanced Materials</i> , 2013, 25, 4701-4705.	11.1	98
25	Cavity size, sorption and transport characteristics of thermally rearranged (TR) polymers. <i>Polymer</i> , 2011, 52, 2244-2254.	1.8	97
26	Transparent, Highly Insulating Polyethyl- and Polyvinylsilsesquioxane Aerogels: Mechanical Improvements by Vulcanization for Ambient Pressure Drying. <i>Chemistry of Materials</i> , 2016, 28, 6860-6868.	3.2	96
27	Encapsulation, Visualization and Expression of Genes with Biomimetically Mineralized Zeolitic Imidazolate Framework (ZIF-8). <i>Small</i> , 2019, 15, e1902268.	5.2	95
28	Double-Sided Electrochromic Device Based on Metal Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 39930-39934.	4.0	92
29	Cross-Linked Thermally Rearranged Poly(benzoxazole-co-imide) Membranes Prepared from ortho-Hydroxycopolyimides Containing Pendant Carboxyl Groups and Gas Separation Properties. <i>Macromolecules</i> , 2015, 48, 2603-2613.	2.2	90
30	Desalination of seawater ion complexes by MFI-type zeolite membranes: Temperature and long term stability. <i>Journal of Membrane Science</i> , 2014, 453, 126-135.	4.1	88
31	CUB-5: A Contoured Aliphatic Pore Environment in a Cubic Framework with Potential for Benzene Separation Applications. <i>Journal of the American Chemical Society</i> , 2019, 141, 3828-3832.	6.6	87
32	Porosity in metal organic framework glasses. <i>Chemical Communications</i> , 2016, 52, 3750-3753.	2.2	76
33	Linking the structures, free volumes, and properties of ionic liquid mixtures. <i>Chemical Science</i> , 2017, 8, 6359-6374.	3.7	74
34	Biomimetic mineralization of metal organic frameworks around polysaccharides. <i>Chemical Communications</i> , 2017, 53, 1249-1252.	2.2	73
35	Enhanced Gas Permeation through Graphene Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13700-13712.	1.5	70
36	Water vapor sorption and free volume in the aromatic polyamide layer of reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2013, 425-426, 217-226.	4.1	69

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37	Hyper-Cross-Linked Additives that Impede Aging and Enhance Permeability in Thin Polyacetylene Films for Organic Solvent Nanofiltration. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14401-14408.	4.0	69
38	Flux melting of metal-organic frameworks. <i>Chemical Science</i> , 2019, 10, 3592-3601.	3.7	67
39	High performance LiFePO <sub>4</sub> electrode materials: influence of colloidal particle morphology and porosity on lithium-ion battery power capability. <i>Energy and Environmental Science</i> , 2010, 3, 813.	15.6	66
40	Water vapor permeation through cellulose acetate membranes and its impact upon membrane separation performance for natural gas purification. <i>Journal of Membrane Science</i> , 2015, 487, 249-255.	4.1	66
41	Dynamic Control of MOF's Crystal Positioning Using a Magnetic Field. <i>Advanced Materials</i> , 2011, 23, 3901-3906.	11.1	64
42	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
43	Unexpectedly Strong Size-Sieving Ability in Carbonized Polybenzimidazole for Membrane H <sub>2</sub> /CO <sub>2</sub> Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47365-47372.	4.0	63
44	Magnetic framework composites for polycyclic aromatic hydrocarbon sequestration. <i>Journal of Materials Chemistry</i> , 2012, 22, 11470.	6.7	62
45	Structural effects on SAPO-34 and ZIF-8 materials exposed to seawater solutions, and their potential as desalination membranes. <i>Desalination</i> , 2016, 377, 128-137.	4.0	62
46	Finely Tuning the Free Volume Architecture in Iptycene-Containing Polyimides for Highly Selective and Fast Hydrogen Transport. <i>Macromolecules</i> , 2016, 49, 3395-3405.	2.2	60
47	Highly Polar but Amorphous Polymers with Robust Membrane CO <sub>2</sub> /N <sub>2</sub> Separation Performance. <i>Joule</i> , 2019, 3, 1881-1894.	11.7	60
48	Triptycene-containing poly(benzoxazole-co-imide) membranes with enhanced mechanical strength for high-performance gas separation. <i>Journal of Membrane Science</i> , 2018, 551, 305-314.	4.1	59
49	Thermally rearranged (TR) bismaleimide-based network polymers for gas separation membranes. <i>Chemical Communications</i> , 2016, 52, 13556-13559.	2.2	55
50	Enhanced Polymer Crystallinity in Mixed-Matrix Membranes Induced by Metal-Organic Framework Nanosheets for Efficient CO <sub>2</sub> Capture. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43095-43103.	4.0	55
51	Effect of heat treatment on pervaporation separation of aqueous salt solution using hybrid PVA/MA/TEOS membrane. <i>Separation and Purification Technology</i> , 2014, 127, 10-17.	3.9	54
52	Ultra-thin hybrid polyhedral silsesquioxane-polyamide films with potentially unlimited 2D dimensions. <i>Journal of Materials Chemistry</i> , 2012, 22, 14835.	6.7	52
53	Modeling of the sorption and transport properties of water vapor in polyimide membranes. <i>Journal of Membrane Science</i> , 2012, 409-410, 96-104.	4.1	52
54	Molecular origins of fast and selective gas transport in pentyptycene-containing polyimide membranes and their physical aging behavior. <i>Journal of Membrane Science</i> , 2016, 518, 100-109.	4.1	52

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55	Positioning an individual metal-organic framework particle using a magnetic field. <i>Journal of Materials Chemistry C</i> , 2013, 1, 42-45.	2.7	51
56	Amino acids as biomimetic crystallization agents for the synthesis of ZIF-8 particles. <i>CrystEngComm</i> , 2016, 18, 4264-4267.	1.3	51
57	Pyrite-type ruthenium disulfide with tunable disorder and defects enables ultra-efficient overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14222-14232.	5.2	50
58	Characterization of Aluminum-Neutralized Sulfonated Styrenic Pentablock Copolymer Films. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 1056-1068.	1.8	47
59	Ionic transport through a composite structure of N-ethyl-N-methylpyrrolidinium tetrafluoroborate organic ionic plastic crystals reinforced with polymer nanofibres. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6038-6052.	5.2	47
60	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
61	Facile and Time-Efficient Carboxylic Acid Functionalization of PIM-1: Effect on Molecular Packing and Gas Separation Performance. <i>Macromolecules</i> , 2020, 53, 6220-6234.	2.2	44
62	Investigation of the effects of ion and water interaction on structure and chemistry of silicalite MFI type zeolite for its potential use as a seawater desalination membrane. <i>Journal of Materials Chemistry</i> , 2010, 20, 4675.	6.7	43
63	Transparent Ethenylene-Bridged Polymethylsiloxane Aerogels: Mechanical Flexibility and Strength and Availability for Addition Reaction. <i>Langmuir</i> , 2017, 33, 4543-4550.	1.6	43
64	Membranes with artificial free-volume for biofuel production. <i>Nature Communications</i> , 2015, 6, 7529.	5.8	38
65	Analysis of governing factors controlling gas transport through fresh and aged triptycene-based polyimide films. <i>Journal of Membrane Science</i> , 2017, 522, 12-22.	4.1	37
66	ZIF-C for targeted RNA interference and CRISPR/Cas9 based gene editing in prostate cancer. <i>Chemical Communications</i> , 2020, 56, 15406-15409.	2.2	37
67	Ionic liquids as porogens for molecularly imprinted polymers: propranolol, a model study. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 7201-7210.	1.5	36
68	High-Performance Polybenzimidazole Membranes for Helium Extraction from Natural Gas. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20098-20103.	4.0	36
69	Advancing Metal-Organic Frameworks toward Smart Sensing: Enhanced Fluorescence by a Photonic Metal-Organic Framework for Organic Vapor Sensing. <i>Advanced Optical Materials</i> , 2020, 8, 2000961.	3.6	36
70	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
71	Investigation of the chemical and morphological structure of thermally rearranged polymers. <i>Polymer</i> , 2014, 55, 6649-6657.	1.8	32
72	Slow hydrophobic hydration induced polymer ultrafiltration membranes with high water flux. <i>Journal of Membrane Science</i> , 2014, 471, 27-34.	4.1	32

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73	Plastic Crystals Utilising Small Ammonium Cations and Sulfonylimide Anions as Electrolytes for Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070529.	1.3	31
74	The thickness dependence of Matrimid films in water vapor permeation. <i>Chemical Engineering Journal</i> , 2012, 209, 301-312.	6.6	30
75	Highly permeable and selective mixed-matrix membranes for hydrogen separation containing PAF-1. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14713-14720.	5.2	30
76	Leveraging Free Volume Manipulation to Improve the Membrane Separation Performance of Amine-Functionalized PIM-1. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6593-6599.	7.2	30
77	Organic salts utilising the hexamethylguanidinium cation: the influence of the anion on the structural, physical and thermal properties. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12288-12300.	1.3	28
78	Insights into Nitrogenase Bioelectrocatalysis for Green Ammonia Production. <i>ChemSusChem</i> , 2020, 13, 4856-4865.	3.6	28
79	Using Plasticizers to Control the Hydrocarbon Selectivity of a Poly(Methyl Methacrylate)-Coated Quartz Crystal Microbalance Sensor. <i>Analytical Chemistry</i> , 2012, 84, 8564-8570.	3.2	27
80	Organic Microporous Nanofillers with Unique Alcohol Affinity for Superior Ethanol Recovery toward Sustainable Biofuels. <i>ChemSusChem</i> , 2017, 10, 1887-1891.	3.6	27
81	Ultrathin poly (vinyl alcohol)/MXene nanofilm composite membrane with facile intrusion-free construction for pervaporative separations. <i>Journal of Membrane Science</i> , 2020, 614, 118490.	4.1	27
82	Role of Defects in the High Ionic Conductivity of Choline Triflate Plastic Crystal and Its Acid-Containing Compositions. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5532-5543.	1.5	26
83	Stable MOF@enzyme composites for electrochemical biosensing devices. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7677-7688.	2.7	26
84	Multiscale structural control of linked metal-organic polyhedra gel by aging-induced linkage-reorganization. <i>Chemical Science</i> , 2021, 12, 12556-12563.	3.7	24
85	Preparation and gas separation properties of partially pyrolyzed membranes (PPMs) derived from copolyimides containing polyethylene oxide side chains. <i>Journal of Membrane Science</i> , 2012, 409-410, 200-211.	4.1	23
86	Designing hierarchical porous features of ZSM-5 zeolites via Si/Al ratio and their dynamic behavior in seawater ion complexes. <i>Microporous and Mesoporous Materials</i> , 2013, 173, 78-85.	2.2	23
87	Understanding the transport enhancement of poly (vinyl alcohol) based hybrid membranes with dispersed nanochannels for pervaporation application. <i>Journal of Membrane Science</i> , 2020, 603, 118005.	4.1	22
88	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
89	Complete Characterization of $\pm$ -Hopeite Microparticles: An Ideal Nucleation Seed for Metal Organic Frameworks. <i>Crystal Growth and Design</i> , 2011, 11, 5268-5274.	1.4	19
90	Greatly Enhanced Gas Selectivity in Mixed-Matrix Membranes through Size-Controlled Hyper-cross-linked Polymer Additives. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 13773-13782.	1.8	19

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91	Biomimetic metal-organic frameworks as protective scaffolds for live-virus encapsulation and vaccine stabilization. <i>Acta Biomaterialia</i> , 2022, 142, 320-331.	4.1	19
92	Tailoring molecular interactions between microporous polymers in high performance mixed matrix membranes for gas separations. <i>Nanoscale</i> , 2020, 12, 17405-17410.	2.8	18
93	Hypercrosslinked Additives for Ageless Gas Separation Membranes. <i>Angewandte Chemie</i> , 2016, 128, 2038-2041.	1.6	17
94	The influence of alkyl chain branching on the properties of pyrrolidinium-based ionic electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18102-18113.	1.3	17
95	A Crown Ether-Containing Copolyimide Membrane with Improved Free Volume for CO <sub>2</sub> Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 14357-14367.	1.8	15
96	The impact of water and hydrocarbon concentration on the sensitivity of a polymer-based quartz crystal microbalance sensor for organic compounds. <i>Analytica Chimica Acta</i> , 2011, 703, 70-79.	2.6	14
97	Architecturing Nanospace via Thermal Rearrangement for Highly Efficient Gas Separations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24654-24661.	1.5	14
98	Enhancing polyimide-based mixed matrix membranes performance for CO <sub>2</sub> separation containing PAF-1 and p-DCX. <i>Separation and Purification Technology</i> , 2021, 268, 118677.	3.9	14
99	Microfabrication of mesoporous silica encapsulated enzymes using deep X-ray lithography. <i>Journal of Materials Chemistry</i> , 2012, 22, 16191.	6.7	13
100	Stress-relaxation heat treatment in FeSiBNb amorphous alloy: Thermal, microstructure, nanomechanical and magnetic texture measurements. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 456, 62-70.	1.0	13
101	Simultaneous Microfabrication and Tuning of the Permselective Properties in Microporous Polymers Using X-ray Lithography. <i>Small</i> , 2013, 9, 2277-2282.	5.2	12
102	Diffusion of low molecular weight permeants through semi-crystalline polymers: combining molecular dynamics with semi-empirical models. <i>Polymer International</i> , 2018, 67, 717-725.	1.6	12
103	Fabricating Bioactive 3D Metal-Organic Framework Devices. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000059.	2.7	12
104	The influence of propane and n-butane on the structure and separation performance of cellulose acetate membranes. <i>Journal of Membrane Science</i> , 2021, 638, 119677.	4.1	12
105	Polyethylenimine "Snow": An Emerging Material for Efficient Carbon Removal. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26770-26780.	4.0	11
106	Physical Aging Investigations of a Spirobisindane-Locked Polymer of Intrinsic Microporosity. , 2020, 2, 993-998.		11
107	Probing the Design Rationale of a High-Performing Faujasitic Zeotype Engineered to have Hierarchical Porosity and Moderated Acidity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19561-19569.	7.2	11
108	Free volume manipulation of a 6FDA-HAB polyimide using a solid-state protection/deprotection strategy. <i>Polymer</i> , 2021, 212, 123121.	1.8	11

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109	Gas transport characteristics of supramolecular networks of metal-coordinated highly branched Poly(ethylene oxide). <i>Journal of Membrane Science</i> , 2022, 644, 120063.	4.1	10
110	A Systematic Study of the Stability of Enzyme/Zeolitic Imidazolate Frameworks Composites in Various Biologically Relevant Solutions. <i>ChemistrySelect</i> , 2020, 5, 13766-13774.	0.7	8
111	Thermal, structural and dynamic properties of ionic liquids and organic ionic plastic crystals with a small ether-functionalised cation. <i>Materials Chemistry Frontiers</i> , 2022, 6, 1437-1455.	3.2	8
112	Ionic liquids and plastic crystals utilising the oxazolidinium cation: the effect of ether functionality in the ring. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6014-6026.	3.2	7
113	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
114	Evaluation of Coupling Protocols to Bind Beta-Glucosidase on Magnetic Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 6565-6573.	0.9	6
115	Origin of CO <sub>2</sub> -philic Sorption by Graphene Oxide Layered Nanosheets and Their Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2356-2362.	2.1	6
116	Isolable 1-Butene Copper(I) Complexes and 1-Butene/Butane Separation Using Structurally Adaptable Copper Pyrazolates. <i>ChemPlusChem</i> , 2021, 86, 364-372.	1.3	6
117	Leveraging Free Volume Manipulation to Improve the Membrane Separation Performance of Amine-Functionalized PIM-1. <i>Angewandte Chemie</i> , 2021, 133, 6667-6673.	1.6	6
118	Enhanced Membrane Performance for Gas Separation by Coupling Effect of the Porous Aromatic Framework (PAF) Incorporation and Photo-Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 6190-6199.	1.8	6
119	Predicting trends in structural and physical properties of a model polymer with embedded natural fibers: Viability of molecular dynamics studies for a bottom up design. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48189.	1.3	5
120	Gene Therapy: Encapsulation, Visualization and Expression of Genes with Biomimetically Mineralized Zeolitic Imidazolate Frameworks (ZIFs) (Small 36/2019). <i>Small</i> , 2019, 15, 1970193.	5.2	4
121	Polyimide-silica sol-gel membranes from a novel alkoxy silane functionalized polyimide: preparation, characterization and gas separation properties. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 72, 464-479.	1.1	3
122	Porous solid inspired hyper-crosslinked polymer liquids with highly efficient regeneration for gas purification. <i>Science China Materials</i> , 2022, 65, 1937-1942.	3.5	3
123	Probing the Design Rationale of a High-Performing Faujasitic Zeotype Engineered to have Hierarchical Porosity and Moderated Acidity. <i>Angewandte Chemie</i> , 2020, 132, 19729-19737.	1.6	2
124	Lithography of porous materials for device fabrication., 2011, , .		0