Matthew Hill

List of Publications by Year in descending order

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148 papers	9,305 citations	38720 50 h-index	42364 92 g-index
158 all docs	158 docs citations	158 times ranked	10297 citing authors

#	Article	IF	Citations
1	New synthetic routes towards MOF production at scale. Chemical Society Reviews, 2017, 46, 3453-3480.	18.7	649
2	Metal organic framework based catalysts for CO₂ conversion. Materials Horizons, 2017, 4, 345-361.	6.4	359
3	Dynamic Photoâ€Switching in Metalâ€“Organic Frameworks as a Route to Lowâ€Energy Carbon Dioxide Capture and Release. Angewandte Chemie - International Edition, 2013, 52, 3695-3698.	7.2	309
4	Hydrogen Storage Materials for Mobile and Stationary Applications: Current State of the Art. ChemSusChem, 2015, 8, 2789-2825.	3.6	302
5	Ending Aging in Super Glassy Polymer Membranes. Angewandte Chemie - International Edition, 2014, 53, 5322-5326.	7.2	275
6	Efficient metal ion sieving in rectifying subnanochannels enabled by metalâ€“organic frameworks. Nature Materials, 2020, 19, 767-774.	13.3	275
7	Synthesis and Hydrogen Storage Properties of Be₁₂(OH)₁₂(1,3,5-benzenetribenzoate)₄. Journal of the American Chemical Society, 2009, 131, 15120-15121.	6.6	247
8	A route to drastic increase of CO2 uptake in Zr metal organic framework UiO-66. Chemical Communications, 2013, 49, 3634.	2.2	201
9	Post-synthetic Structural Processing in a Metalâ€“Organic Framework Material as a Mechanism for Exceptional CO₂/N₂ Selectivity. Journal of the American Chemical Society, 2013, 135, 10441-10448.	6.6	190
10	Gasâ€Separation Membranes Loaded with Porous Aromatic Frameworks that Improve with Age. Angewandte Chemie - International Edition, 2015, 54, 2669-2673.	7.2	175
11	Programmed Pore Architectures in Modular Quaternary Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2013, 135, 17731-17734.	6.6	170
12	Materials Genome in Action: Identifying the Performance Limits of Physical Hydrogen Storage. Chemistry of Materials, 2017, 29, 2844-2854.	3.2	169
13	Post-synthetic Ti Exchanged UiO-66 Metal-Organic Frameworks that Deliver Exceptional Gas Permeability in Mixed Matrix Membranes. Scientific Reports, 2015, 5, 7823.	1.6	168
14	Fast and selective fluoride ion conduction in sub-1-nanometer metal-organic framework channels. Nature Communications, 2019, 10, 2490.	5.8	158
15	Feasibility of zeolitic imidazolate framework membranes for clean energy applications. Energy and Environmental Science, 2012, 5, 7637.	15.6	154
16	Methane storage in metal organic frameworks. Journal of Materials Chemistry, 2012, 22, 16698.	6.7	153
17	Expansion-tolerant architectures for stable cycling of ultrahigh-loading sulfur cathodes in lithium-sulfur batteries. Science Advances, 2020, 6, eaay2757.	4.7	152
18	Versatile, High Quality and Scalable Continuous Flow Production of Metal-Organic Frameworks. Scientific Reports, 2014, 4, 5443.	1.6	150

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19	Synthesis of hierarchical porous zeolite NaY particles with controllable particle sizes. Microporous and Mesoporous Materials, 2010, 127, 167-175.	2.2	146
20	Suppressed Polysulfide Crossover in Liâ€“S Batteries through a High-Flux Graphene Oxide Membrane Supported on a Sulfur Cathode. ACS Nano, 2016, 10, 7768-7779.	7.3	144
21	Kinetically Controlled Porosity in a Robust Organic Cage Material. Angewandte Chemie - International Edition, 2013, 52, 3746-3749.	7.2	137
22	Metalâ^'Organic Frameworks Impregnated with Magnesium-Decorated Fullerenes for Methane and Hydrogen Storage. Journal of the American Chemical Society, 2009, 131, 10662-10669.	6.6	134
23	Lithiated Porous Aromatic Frameworks with Exceptional Gas Storage Capacity. Angewandte Chemie - International Edition, 2012, 51, 6639-6642.	7.2	112
24	Tailoring Physical Aging in Super Glassy Polymers with Functionalized Porous Aromatic Frameworks for CO₂ Capture. Chemistry of Materials, 2015, 27, 4756-4762.	3.2	107
25	Magnetic Metalâ€“Organic Frameworks for Efficient Carbon Dioxide Capture and Remote Trigger Release. Advanced Materials, 2016, 28, 1839-1844.	11.1	107
26	Hypercrosslinked Additives for Ageless Gasâ€Separation Membranes. Angewandte Chemie - International Edition, 2016, 55, 1998-2001.	7.2	105
27	Low-Energy CO₂ Release from Metalâ€“Organic Frameworks Triggered by External Stimuli. Accounts of Chemical Research, 2017, 50, 778-786.	7.6	104
28	Highly active catalyst for CO₂ methanation derived from a metal organic framework template. Journal of Materials Chemistry A, 2017, 5, 12990-12997.	5.2	95
29	Building Additional Passageways in Polyamide Membranes with Hydrostable Metal Organic Frameworks To Recycle and Remove Organic Solutes from Various Solvents. ACS Applied Materials & Interfaces, 2017, 9, 38877-38886.	4.0	93
30	Metalâ€Organicâ€Frameworkâ€Coated Optical Fibers as Lightâ€Triggered Drug Delivery Vehicles. Advanced Functional Materials, 2016, 26, 3244-3249.	7.8	88
31	CUB-5: A Contoured Aliphatic Pore Environment in a Cubic Framework with Potential for Benzene Separation Applications. Journal of the American Chemical Society, 2019, 141, 3828-3832.	6.6	87
32	Feasibility of Mixed Matrix Membrane Gas Separations Employing Porous Organic Cages. Journal of Physical Chemistry C, 2014, 118, 1523-1529.	1.5	84
33	Seeded growth of ZIF-8 on the surface of carbon nanotubes towards self-supporting gas separation membranes. Journal of Materials Chemistry A, 2013, 1, 9208.	5.2	83
34	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34, .	11.1	82
35	Facile stabilization of cyclodextrin metalâ€“organic frameworks under aqueous conditions via the incorporation of C₆₀ in their matrices. Chemical Communications, 2016, 52, 5973-5976.	2.2	81
36	Scalability of Continuous Flow Production of Metalâ€“Organic Frameworks. ChemSusChem, 2016, 9, 938-941.	3.6	76

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37	Missing Linker Defects in a Homochiral Metalâ€“Organic Framework: Tuning the Chiral Separation Capacity. Journal of the American Chemical Society, 2017, 139, 18322-18327.	6.6	74
38	AIMs: a new strategy to control physical aging and gas transport in mixed-matrix membranes. Journal of Materials Chemistry A, 2015, 3, 15241-15247.	5.2	72
39	Unidirectional and Selective Proton Transport in Artificial Heterostructured Nanochannels with Nanoâ€toâ€Subnano Confined Water Clusters. Advanced Materials, 2020, 32, e2001777.	11.1	72
40	Coordination polymers of sulphur-donor ligands. Inorganica Chimica Acta, 2013, 403, 9-24.	1.2	69
41	Hyper-Cross-Linked Additives that Impede Aging and Enhance Permeability in Thin Polyacetylene Films for Organic Solvent Nanofiltration. ACS Applied Materials & Interfaces, 2017, 9, 14401-14408.	4.0	69
42	Continuous flow production of metal-organic frameworks. Current Opinion in Chemical Engineering, 2015, 8, 55-59.	3.8	65
43	A saccharide-based binder for efficient polysulfide regulations in Li-S batteries. Nature Communications, 2021, 12, 5375.	5.8	65
44	Control of framework interpenetration for in situ modified hydroxyl functionalised IRMOFs. Chemical Communications, 2012, 48, 10328.	2.2	64
45	Physical aging in glassy mixed matrix membranes; tuning particle interaction for mechanically robust nanocomposite films. Journal of Materials Chemistry A, 2016, 4, 10627-10634.	5.2	62
46	Structural effects on SAPO-34 and ZIF-8 materials exposed to seawater solutions, and their potential as desalination membranes. Desalination, 2016, 377, 128-137.	4.0	62
47	Magnetic Induction Swing Adsorption: An Energy Efficient Route to Porous Adsorbent Regeneration. Chemistry of Materials, 2016, 28, 6219-6226.	3.2	59
48	Does functionalisation enhance CO₂ uptake in interpenetrated MOFs? An examination of the IRMOF-9 series. Chemical Communications, 2014, 50, 3238-3241.	2.2	57
49	A Robust Metalâ€“Organic Framework for Dynamic Lightâ€Induced Swing Adsorption of Carbon Dioxide. Chemistry - A European Journal, 2016, 22, 11176-11179.	1.7	55
50	Enhanced Polymer Crystallinity in Mixed-Matrix Membranes Induced by Metalâ€“Organic Framework Nanosheets for Efficient CO₂ Capture. ACS Applied Materials & Interfaces, 2018, 10, 43095-43103.	4.0	55
51	Visible Light-Triggered Capture and Release of CO₂ from Stable Metal Organic Frameworks. Chemistry of Materials, 2015, 27, 7882-7888.	3.2	54
52	CO₂ Adsorption in Azobenzene Functionalized Stimuli Responsive Metalâ€“Organic Frameworks. Journal of Physical Chemistry C, 2016, 120, 16658-16667.	1.5	53
53	Visible Light Triggered CO₂ Liberation from Silver Nanocrystals Incorporated Metalâ€“Organic Frameworks. Advanced Functional Materials, 2016, 26, 4815-4821.	7.8	53
54	Top-down patterning of Zeolitic Imidazolate Framework composite thin films by deep X-ray lithography. Chemical Communications, 2012, 48, 7483.	2.2	51

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55	Enhancing Multicomponent Metalâ€“Organic Frameworks for Low Pressure Liquid Organic Hydrogen Carrier Separations. Angewandte Chemie - International Edition, 2020, 59, 6090-6098.	7.2	50
56	Aqueous Molecular Sieving and Strong Gas Adsorption in Highly Porous MOFs with a Facile Synthesis. Chemistry of Materials, 2012, 24, 4647-4652.	3.2	49
57	Tunable Photodynamic Switching of DArE@PAFâ€1 for Carbon Capture. Advanced Functional Materials, 2015, 25, 4405-4411.	7.8	48
58	Integrated Study of the Calcination Cycle from Gibbsite to Corundum. Chemistry of Materials, 2007, 19, 2877-2883.	3.2	47
59	Highly permeable Thermally Rearranged Mixed Matrix Membranes (TR-MMM). Journal of Membrane Science, 2019, 585, 260-270.	4.1	47
60	MaLISA â€“ a cooperative method to release adsorbed gases from metalâ€“organic frameworks. Journal of Materials Chemistry A, 2016, 4, 18757-18762.	5.2	46
61	Molecular Design of Amorphous Porous Organic Cages for Enhanced Gas Storage. Journal of Physical Chemistry C, 2015, 119, 7746-7754.	1.5	44
62	Solvation Effects on the Permeation and Aging Performance of PIM-1-Based MMMs for Gas Separation. ACS Applied Materials & Interfaces, 2019, 11, 6502-6511.	4.0	43
63	Control of Porosity and Pore Size of Metal Reinforced Carbon Nanotube Membranes. Membranes, 2011, 1, 25-36.	1.4	42
64	Framework-mediated synthesis of highly microporous onion-like carbon: energy enhancement in supercapacitors without compromising power. Journal of Materials Chemistry A, 2017, 5, 2519-2529.	5.2	42
65	High Performance Hydrogen Storage from Be-BTB Metalâ€“Organic Framework at Room Temperature. Langmuir, 2013, 29, 8524-8533.	1.6	41
66	Sulfonated Sub-1-nm Metalâ€“Organic Framework Channels with Ultrahigh Proton Selectivity. Journal of the American Chemical Society, 2020, 142, 9827-9833.	6.6	41
67	Hysteretic carbon dioxide sorption in a novel copper(ii)-indazole-carboxylate porous coordination polymer. Chemical Communications, 2012, 48, 11558.	2.2	39
68	Post-Synthetic Annealing: Linker Self-Exchange in UiO-66 and Its Effect on Polymerâ€“Metal Organic Framework Interaction. Crystal Growth and Design, 2017, 17, 4384-4392.	1.4	37
69	Microporous carbon from fullerene impregnated porous aromatic frameworks for improving the desalination performance of thin film composite forward osmosis membranes. Journal of Materials Chemistry A, 2018, 6, 11327-11336.	5.2	37
70	A Pilotâ€Scale Demonstration of Mobile Direct Air Capture Using Metalâ€Organic Frameworks. Advanced Sustainable Systems, 2020, 4, 2000101.	2.7	37
71	Control of Physical Aging in Super-Glassy Polymer Mixed Matrix Membranes. Accounts of Chemical Research, 2020, 53, 1381-1388.	7.6	35
72	Magnetic Induction Framework Synthesis: A General Route to the Controlled Growth of Metalâ€“Organic Frameworks. Chemistry of Materials, 2017, 29, 6186-6190.	3.2	34

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73	Gasâ€Separation Membranes Loaded with Porous Aromatic Frameworks that Improve with Age. Angewandte Chemie, 2015, 127, 2707-2711.	1.6	33
74	UiO-66 MOF end-face-coated optical fiber in aqueous contaminant detection. Optics Letters, 2016, 41, 1696.	1.7	33
75	Vacancy ordering in Î³-Fe2O3 nanocrystals observed by 57Fe NMR. Journal of Magnetism and Magnetic Materials, 2009, 321, 2677-2681.	1.0	32
76	High surface area templated LiFePO₄from a single source precursor molecule. Energy and Environmental Science, 2011, 4, 965-972.	15.6	32
77	Upcycling a plastic cup: one-pot synthesis of lactate containing metal organic frameworks from polylactic acid. Chemical Communications, 2019, 55, 7319-7322.	2.2	31
78	Activation of gold decorated carbon nanotube hybrids for targeted gas adsorption and enhanced catalytic oxidation. Journal of Materials Chemistry, 2012, 22, 9374.	6.7	30
79	Highly permeable and selective mixed-matrix membranes for hydrogen separation containing PAF-1. Journal of Materials Chemistry A, 2020, 8, 14713-14720.	5.2	30
80	Ultramicroporous MOF with High Concentration of Vacant Cu^{II} Sites. Chemistry of Materials, 2014, 26, 4640-4646.	3.2	29
81	Continuous flow synthesis of a carbon-based molecular cage macrocycle via a three-fold homocoupling reaction. Chemical Communications, 2015, 51, 14231-14234.	2.2	29
82	Magnetic Metalâ€“Organic Framework Composites: Solvent-Free Synthesis and Regeneration Driven by Localized Magnetic Induction Heat. ACS Sustainable Chemistry and Engineering, 2019, 7, 13627-13632.	3.2	29
83	Towards new precursors for ZnO thin films by single source CVD: the X-ray structures and precursor properties of zinc ketoacidoximates. Inorganica Chimica Acta, 2005, 358, 201-206.	1.2	28
84	Role of ethanol in sodalite crystallization in an ethanolâ€“Na2Oâ€“Al2O3â€“SiO2â€“H2O system. CrystEngComm, 2011, 13, 4714.	1.3	28
85	Metalâ€“Organic Frameworkâ€Based Ionâ€Selective Membranes. Advanced Materials Technologies, 2021, 6, 2000790.	3.0	28
86	Organic Microporous Nanofillers with Unique Alcohol Affinity for Superior Ethanol Recovery toward Sustainable Biofuels. ChemSusChem, 2017, 10, 1887-1891.	3.6	27
87	Continuous Flow Synthesis of a Zr Magnetic Framework Composite for Postâ€Combustion CO₂ Capture. Chemistry - A European Journal, 2019, 25, 13184-13188.	1.7	27
88	Engineered Porous Nanocomposites That Deliver Remarkably Low Carbon Capture Energy Costs. Cell Reports Physical Science, 2020, 1, 100070.	2.8	26
89	Separator Design Variables and Recommended Characterization Methods for Viable Lithiumâ€“Sulfur Batteries. Advanced Materials Technologies, 2021, 6, 2001136.	3.0	26
90	Towards energy efficient separations with metal organic frameworks. Chemical Communications, 2018, 54, 2825-2837.	2.2	25

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91	Dialkylcarbamato magnesium cluster complexes: precursors to the single-source chemical vapour deposition of high quality MgO thin films. Journal of Materials Chemistry, 2004, 14, 3198.	6.7	24
92	Practical considerations in the design and use of porous liquids. Materials Horizons, 2022, 9, 1577-1601.	6.4	23
93	A flexible copper based microporous metalâ€“organic framework displaying selective adsorption of hydrogen over nitrogen. Dalton Transactions, 2011, 40, 3398.	1.6	22
94	Synthesis and properties of Znâ€“Mg heterobimetallic carbamates. Crystal structures of the first reported single source precursors for ZnxMg1â^'xO thin films. Dalton Transactions, 2008, , 2751.	1.6	21
95	Permselective membranes in lithiumâ€“sulfur batteries. Current Opinion in Chemical Engineering, 2017, 16, 31-38.	3.8	20
96	Synergistically improved PIM-1 membrane gas separation performance by PAF-1 incorporation and UV irradiation. Journal of Materials Chemistry A, 2022, 10, 10107-10119.	5.2	20
97	Greatly Enhanced Gas Selectivity in Mixed-Matrix Membranes through Size-Controlled Hyper-cross-linked Polymer Additives. Industrial & Engineering Chemistry Research, 2020, 59, 13773-13782.	1.8	19
98	Tailoring molecular interactions between microporous polymers in high performance mixed matrix membranes for gas separations. Nanoscale, 2020, 12, 17405-17410.	2.8	18
99	Analytical representation of micropores for predicting gas adsorption in porous materials. Microporous and Mesoporous Materials, 2013, 167, 188-197.	2.2	17
100	Porous Aromatic Frameworks Impregnated with Lithiated Fullerenes for Natural Gas Purification. Journal of Physical Chemistry C, 2015, 119, 9347-9354.	1.5	17
101	Hypercrosslinked Additives for Ageless Gasâ€Separation Membranes. Angewandte Chemie, 2016, 128, 2038-2041.	1.6	17
102	Magnetic Framework Composites for Low Concentration Methane Capture. Industrial & Engineering Chemistry Research, 2018, 57, 6040-6047.	1.8	17
103	Exceptional lithium diffusion through porous aromatic framework (PAF) interlayers delivers high capacity and long-life lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2022, 10, 902-911.	5.2	17
104	High-Quality Zn_xMg_{1â^'x}O Thin Films Deposited from a Single Molecular Source. Intimate Mixing as a Means to Improved Film Properties. Chemistry of Materials, 2008, 20, 2461-2467.	3.2	16
105	Spatial Control of Zeolitic Imidazolate Framework Growth on Flexible Substrates. Crystal Growth and Design, 2013, 13, 4411-4417.	1.4	16
106	Disordered Mesoporous Gadolinosilicate Nanoparticles Prepared Using Gadolinium Based Ionic Liquid Emulsions: Potential as Magnetic Resonance Imaging Contrast Agents. Australian Journal of Chemistry, 2011, 64, 617.	0.5	15
107	Efficient delivery of oxygen via magnetic framework composites. Journal of Materials Chemistry A, 2019, 7, 3790-3796.	5.2	15
108	Designer Self-Assembled Polyelectrolyte Complex Nanoparticle Membrane for a Stable Lithiumâ€“Sulfur Battery at Lean Electrolyte Conditions. ACS Applied Energy Materials, 2020, 3, 7908-7919.	2.5	15

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109	Construction of ultrathin PTMSP/Porous nanoadditives membranes for highly efficient organic solvent nanofiltration (OSN). Journal of Membrane Science, 2021, 620, 118911.	4.1	15
110	Internal and external surface characterisation of templating processes for ordered mesoporous silicas and carbons. Journal of Materials Chemistry, 2009, 19, 2215.	6.7	14
111	Adsorption and desorption characteristics of 3-dimensional networks of fused graphene. Surface Science, 2012, 606, 34-39.	0.8	14
112	A new family of zinc metalâ€“organic framework polymorphs containing anthracene tetracarboxylates. CrystEngComm, 2014, 16, 8937-8940.	1.3	14
113	Scalable simultaneous activation and separation of metalâ€“organic frameworks. RSC Advances, 2016, 6, 5523-5527.	1.7	14
114	Enhancing polyimide-based mixed matrix membranes performance for CO2 separation containing PAF-1 and p-DCX. Separation and Purification Technology, 2021, 268, 118677.	3.9	14
115	Synthesis and Isomerisation Reactions of Tetranuclear and Octanuclear (Carbamato)zinc Complexes. European Journal of Inorganic Chemistry, 2008, 2008, 2024-2032.	1.0	13
116	Interpenetrated Zirconiumâ€“Organic Frameworks: Small Cavities versus Functionalization for CO₂ Capture. Journal of Physical Chemistry C, 2016, 120, 13013-13023.	1.5	13
117	Highly-Efficient Sulfonated UiO-66(Zr) Optical Fiber for Rapid Detection of Trace Levels of Pb2+. International Journal of Molecular Sciences, 2021, 22, 6053.	1.8	13
118	PLUXter: Rapid Discovery of Metal-Organic Framework Structures Using PCA and HCA of High Throughput Synchrotron Powder Diffraction Data. Combinatorial Chemistry and High Throughput Screening, 2011, 14, 28-35.	0.6	12
119	Porous Aromatic Frameworks Impregnated with Fullerenes for Enhanced Methanol/Water Separation. Langmuir, 2014, 30, 14621-14630.	1.6	12
120	Strategies toward Enhanced Low-Pressure Volumetric Hydrogen Storage in Nanoporous Cryoadsorbents. Langmuir, 2013, 29, 15689-15697.	1.6	11
121	Underlying Polar and Nonpolar Modification MOF-Based Factors that Influence Permanent Porosity in Porous Liquids. ACS Applied Materials & Interfaces, 2022, 14, 23392-23399.	4.0	11
122	Enhancing Multicomponent Metalâ€“Organic Frameworks for Low Pressure Liquid Organic Hydrogen Carrier Separations. Angewandte Chemie, 2020, 132, 6146-6154.	1.6	10
123	Charge Carrier Molecular Sieve (CCMS) Membranes with Anti-aging Effect for Long-Life Vanadium Redox Flow Batteries. ACS Applied Energy Materials, 2022, 5, 1505-1515.	2.5	9
124	Growth Mechanism of Textured MgO Thin Films via SSCVD. Journal of Physical Chemistry B, 2006, 110, 9236-9240.	1.2	8
125	Graphitic carbon nanofiber growth from catalytic-metal organic frameworks & their electrochemical double layer properties. Journal of Materials Chemistry A, 2017, 5, 25338-25349.	5.2	8
126	Aqueous contaminant detection via UiO-66 thin film optical fiber sensor platform with fast Fourier transform based spectrum analysis. Journal Physics D: Applied Physics, 2018, 51, 025601.	1.3	8

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127	In Situ Investigation of Multicomponent MOF Crystallization during Rapid Continuous Flow Synthesis. ACS Applied Materials & Interfaces, 2021, 13, 54284-54293.	4.0	8
128	Underlying solvent-based factors that influence permanent porosity in porous liquids. Nano Research, 2022, 15, 3533-3538.	5.8	8
129	Performance evaluation of CuBTC composites for room temperature oxygen storage. RSC Advances, 2020, 10, 40960-40968.	1.7	7
130	Pure- and mixed-gas transport properties of a microporous TrÃ¶ger's Base polymer (PIM-EA-TB). Polymer, 2021, 236, 124295.	1.8	7
131	Novel monomeric barium complexes as volatile precursors for chemical vapour deposition. Polyhedron, 2007, 26, 493-507.	1.0	6
132	Periodic mesoporous Lix(Mn1/3Ni1/3Co1/3)O2 spinel. Dalton Transactions, 2010, 39, 5306.	1.6	6
133	A low temperature reduction of CCl4 to solid and hollow carbon nanospheres using metallic sodium. Materials Chemistry and Physics, 2015, 154, 38-43.	2.0	6
134	Effect of direct-current magnetic field on the specific absorption rate of metamagnetic CoMnSi: A potential approach to switchable hyperthermia therapy. AIP Advances, 2020, 10, 015128.	0.6	6
135	Enhanced Membrane Performance for Gas Separation by Coupling Effect of the Porous Aromatic Framework (PAF) Incorporation and Photo-Oxidation. Industrial & Engineering Chemistry Research, 2022, 61, 6190-6199.	1.8	6
136	A simple route to full structural analysis of biophosphates and their application to materials discovery. Dalton Transactions, 2012, 41, 5497.	1.6	5
137	Simple Metal-catalyst-free Production of Carbon Nanostructures. Australian Journal of Chemistry, 2013, 66, 1435.	0.5	5
138	How Reproducible are Surface Areas Calculated from the BET Equation? (Adv. Mater. 27/2022). Advanced Materials, 2022, 34, .	11.1	4
139	Synthesis, characterisation and adsorption properties of a porous copper(ii) 3D coordination polymer exhibiting strong binding enthalpy and adsorption capacity for carbon dioxide. Dalton Transactions, 2012, 41, 13364.	1.6	3
140	The carbon sponge: squeezing out captured carbon dioxide. Carbon Management, 2014, 5, 9-11.	1.2	3
141	Physical and chemical reaction sensing in a mixed aqueous solution via metalâ€organic framework thinâ€film coated optical fiber. Microwave and Optical Technology Letters, 2020, 62, 72-77.	0.9	3
142	Porous solid inspired hyper-crosslinked polymer liquids with highly efficient regeneration for gas purification. Science China Materials, 2022, 65, 1937-1942.	3.5	3
143	Mixed donor, phenanthroline photoactive MOFs with favourable CO₂ selectivity. Chemical Communications, 2020, 56, 13377-13380.	2.2	2
144	Selective sensing of alcohols in water influenced by chemically Zeolite coatings on optical fiber sensors. Proceedings of SPIE, 2014, , .	0.8	1

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145	Metal organic frameworks with exceptional gas storage capacity. , 2010, , .		0
146	MFI-type zeolite functional liquid phase sensor coated on the optical fiber end-face. Proceedings of SPIE, 2012, , .	0.8	0
147	Light-triggered 5-fluorouracil delivery via UiO-66 coated optical fiber. Proceedings of SPIE, 2017, , .	0.8	0
148	MOF-Coated Optical Fiber Sensor for Detection of 4-Aminopyridine in Water. , 2018, , .		0