Andrew Cooper

List of Publications by Year
in descending order

305 papers	42,098 citations	1614 105 h-index	2509 196 g-index
324 all docs	324 docs citations	324 times ranked	23850 citing authors

#	Article	IF	Citations
1	Conjugated Microporous Poly(aryleneethynylene) Networks. Angewandte Chemie - International Edition, 2007, 46, 8574-8578.	13.8	1,278
2	Function-led design of new porous materials. Science, 2015, 348, aaa8075.	12.6	1,272
3	Nanoporous organic polymer networks. Progress in Polymer Science, 2012, 37, 530-563.	24.7	1,029
4	Porous organic cages. Nature Materials, 2009, 8, 973-978.	27.5	984
5	Conjugated Microporous Polymers. Advanced Materials, 2009, 21, 1291-1295.	21.0	929
6	Polymer synthesis and processing using supercritical carbon dioxide. Journal of Materials Chemistry, 2000, 10, 207-234.	6.7	889
7	Sulfone-containing covalent organic frameworks for photocatalytic hydrogen evolution from water. Nature Chemistry, 2018, 10, 1180-1189.	13.6	883
8	Advances in Conjugated Microporous Polymers. Chemical Reviews, 2020, 120, 2171-2214.	47.7	810
9	Synthetic Control of the Pore Dimension and Surface Area in Conjugated Microporous Polymer and Copolymer Networks. Journal of the American Chemical Society, 2008, 130, 7710-7720.	13.7	802
10	Tunable Organic Photocatalysts for Visible-Light-Driven Hydrogen Evolution. Journal of the American Chemical Society, 2015, 137, 3265-3270.	13.7	747
11	Aligned two- and three-dimensional structures by directional freezing of polymers and nanoparticles. Nature Materials, 2005, 4, 787-793.	27.5	721
12	A mobile robotic chemist. Nature, 2020, 583, 237-241.	27.8	645
13	Current understanding and challenges of solar-driven hydrogen generation using polymeric photocatalysts. Nature Energy, 2019, 4, 746-760.	39.5	638
14	Porous, Fluorescent, Covalent Triazineâ€Based Frameworks Via Roomâ€Temperature and Microwaveâ€Assisted Synthesis. Advanced Materials, 2012, 24, 2357-2361.	21.0	636
15	Hydrogen Storage in Microporous Hypercrosslinked Organic Polymer Networks. Chemistry of Materials, 2007, 19, 2034-2048.	6.7	618
16	Porous organic cages: soluble, modular and molecular pores. Nature Reviews Materials, 2016, 1, .	48.7	603
17	Microporous organic polymers for carbon dioxide capture. Energy and Environmental Science, 2011, 4, 4239.	30.8	553
18	Chemical tuning of CO2 sorption in robust nanoporous organic polymers. Chemical Science, 2011, 2, 1173.	7.4	532

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19	Separation of rare gases and chiral molecules by selective binding in porous organic cages. Nature Materials, 2014, 13, 954-960.	27.5	532
20	Triazineâ€Based Graphitic Carbon Nitride: a Twoâ€Dimensional Semiconductor. Angewandte Chemie - International Edition, 2014, 53, 7450-7455.	13.8	523
21	Modular and predictable assembly of porous organic molecular crystals. Nature, 2011, 474, 367-371.	27.8	452
22	Covalent Triazine Frameworks via a Lowâ€Temperature Polycondensation Approach. Angewandte Chemie - International Edition, 2017, 56, 14149-14153.	13.8	441
23	Porous organic molecules. Nature Chemistry, 2010, 2, 915-920.	13.6	440
24	Synthesis and applications of emulsion-templated porous materials. Soft Matter, 2005, 1, 107.	2.7	409
25	Liquids with permanent porosity. Nature, 2015, 527, 216-220.	27.8	402
26	Visibleâ€Lightâ€Driven Hydrogen Evolution Using Planarized Conjugated Polymer Photocatalysts. Angewandte Chemie - International Edition, 2016, 55, 1792-1796.	13.8	372
27	Functionalized Conjugated Microporous Polymers. Macromolecules, 2009, 42, 8809-8816.	4.8	352
28	Microporous Organic Polymers for Methane Storage. Advanced Materials, 2008, 20, 1916-1921.	21.0	351
29	Rapid Microwave Synthesis and Purification of Porous Covalent Organic Frameworks. Chemistry of Materials, 2009, 21, 204-206.	6.7	350
30	Functional materials discovery using energyâ€“structureâ€“function maps. Nature, 2017, 543, 657-664.	27.8	348
31	Metalâ€“Organic Conjugated Microporous Polymers. Angewandte Chemie - International Edition, 2011, 50, 1072-1075.	13.8	318
32	Controlling electric double-layer capacitance and pseudocapacitance in heteroatom-doped carbons derived from hypercrosslinked microporous polymers. Nano Energy, 2018, 46, 277-289.	16.0	317
33	Hydrogen adsorption in microporous hypercrosslinked polymers. Chemical Communications, 2006, , 2670.	4.1	314
34	Molecular shape sorting using molecular organic cages. Nature Chemistry, 2013, 5, 276-281.	13.6	307
35	Hypercrosslinked organic polymer networks as potential adsorbents for pre-combustion CO2 capture. Journal of Materials Chemistry, 2011, 21, 5475.	6.7	302
36	Porous Organic Cage Thin Films and Molecularâ€Sieving Membranes. Advanced Materials, 2016, 28, 2629-2637.	21.0	275

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37	Chemical functionalization strategies for carbon dioxide capture in microporous organic polymers. Polymer International, 2013, 62, 345-352.	3.1	267
38	A stable covalent organic framework for photocatalytic carbon dioxide reduction. Chemical Science, 2020, 11, 543-550.	7.4	265
39	Accelerated Discovery of Organic Polymer Photocatalysts for Hydrogen Evolution from Water through the Integration of Experiment and Theory. Journal of the American Chemical Society, 2019, 141, 9063-9071.	13.7	264
40	Nanoporous Organic Polymer/Cage Composite Membranes. Angewandte Chemie - International Edition, 2013, 52, 1253-1256.	13.8	263
41	Impact of Water Coadsorption for Carbon Dioxide Capture in Microporous Polymer Sorbents. Journal of the American Chemical Society, 2012, 134, 10741-10744.	13.7	259
42	Band gap engineering in fluorescent conjugated microporous polymers. Chemical Science, 2011, 2, 1777.	7.4	257
43	Materials challenges for the development of solid sorbents for post-combustion carbon capture. Journal of Materials Chemistry, 2012, 22, 2815-2823.	6.7	255
44	Conjugated microporous poly(phenylene butadiynylene)s. Chemical Communications, 2008, , 486-488.	4.1	252
45	Understanding structure-activity relationships in linear polymer photocatalysts for hydrogen evolution. Nature Communications, 2018, 9, 4968.	12.8	244
46	Hydrophilic microporous membranes for selective ion separation and flow-battery energy storage. Nature Materials, 2020, 19, 195-202.	27.5	237
47	Porous Organic Cage Nanocrystals by Solution Mixing. Journal of the American Chemical Society, 2012, 134, 588-598.	13.7	235
48	Triply interlocked covalent organic cages. Nature Chemistry, 2010, 2, 750-755.	13.6	230
49	Preparation of Acrylate-Stabilized Gold and Silver Hydrosols and Goldâ˜'Polymer Composite Films. Langmuir, 2003, 19, 4831-4835.	3.5	229
50	The Chemistry of Porous Organic Molecular Materials. Advanced Functional Materials, 2020, 30, 1909842.	14.9	224
51	Barely porous organic cages for hydrogen isotope separation. Science, 2019, 366, 613-620.	12.6	210
52	High Surface Area Networks from Tetrahedral Monomers: Metal-Catalyzed Coupling, Thermal Polymerization, and â€œClickâ€•Chemistry. Macromolecules, 2010, 43, 8531-8538.	4.8	203
53	Swellable, Water- and Acid-Tolerant Polymer Sponges for Chemoselective Carbon Dioxide Capture. Journal of the American Chemical Society, 2014, 136, 9028-9035.	13.7	201
54	Hyperporous Carbons from Hypercrosslinked Polymers. Advanced Materials, 2016, 28, 9804-9810.	21.0	201

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55	Porous Organic Cages for Sulfur Hexafluoride Separation. Journal of the American Chemical Society, 2016, 138, 1653-1659.	13.7	200
56	Molecular Doping of Porous Organic Cages. Journal of the American Chemical Society, 2011, 133, 14920-14923.	13.7	196
57	High Surface Area Conjugated Microporous Polymers: The Importance of Reaction Solvent Choice. Macromolecules, 2010, 43, 8524-8530.	4.8	195
58	Porous Molecular Solids and Liquids. ACS Central Science, 2017, 3, 544-553.	11.3	194
59	Soluble Conjugated Microporous Polymers. Angewandte Chemie - International Edition, 2012, 51, 12727-12731.	13.8	192
60	Acid- and Base-Stable Porous Organic Cages: Shape Persistence and pH Stability via Post-synthetic â€œTyingâ€•of a Flexible Amine Cage. Journal of the American Chemical Society, 2014, 136, 7583-7586.	13.7	192
61	Functional conjugated microporous polymers: from 1,3,5-benzene to 1,3,5-triazine. Polymer Chemistry, 2012, 3, 928.	3.9	191
62	Styrene Purification by Guest-Induced Restructuring of Pillar[6]arene. Journal of the American Chemical Society, 2017, 139, 2908-2911.	13.7	191
63	Near-Ideal Xylene Selectivity in Adaptive Molecular Pillar[<i>n</i>]arene Crystals. Journal of the American Chemical Society, 2018, 140, 6921-6930.	13.7	191
64	Reconstructed covalent organic frameworks. Nature, 2022, 604, 72-79.	27.8	190
65	Conjugated Microporous Polymers with Rose Bengal Dye for Highly Efficient Heterogeneous Organo-Photocatalysis. Macromolecules, 2013, 46, 8779-8783.	4.8	184
66	Onâ€“Off Porosity Switching in a Molecular Organic Solid. Angewandte Chemie - International Edition, 2011, 50, 749-753.	13.8	176
67	Extended conjugated microporous polymers for photocatalytic hydrogen evolution from water. Chemical Communications, 2016, 52, 10008-10011.	4.1	175
68	3D Cage COFs: A Dynamic Three-Dimensional Covalent Organic Framework with High-Connectivity Organic Cage Nodes. Journal of the American Chemical Society, 2020, 142, 16842-16848.	13.7	174
69	Photocatalytic Hydrogen Evolution from Water Using Fluorene and Dibenzothiophene Sulfone-Conjugated Microporous and Linear Polymers. Chemistry of Materials, 2019, 31, 305-313.	6.7	173
70	Porous Organic Cages for Gas Chromatography Separations. Chemistry of Materials, 2015, 27, 3207-3210.	6.7	169
71	Microporous Poly(tri(4-ethynylphenyl)amine) Networks: Synthesis, Properties, and Atomistic Simulation. Macromolecules, 2009, 42, 2658-2666.	4.8	166
72	Synthesis of Stable Thiazole-Linked Covalent Organic Frameworks via a Multicomponent Reaction. Journal of the American Chemical Society, 2020, 142, 11131-11138.	13.7	158

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73	Porous Organic Polymers: Distinction from Disorder?. Angewandte Chemie - International Edition, 2010, 49, 1533-1535.	13.8	156
74	Visibleâ€Lightâ€Driven Hydrogen Evolution Using Planarized Conjugated Polymer Photocatalysts. Angewandte Chemie, 2016, 128, 1824-1828.	2.0	156
75	Porous organic molecular solids by dynamic covalent scrambling. Nature Communications, 2011, 2, 207.	12.8	155
76	Accelerated Synthesis and Discovery of Covalent Organic Framework Photocatalysts for Hydrogen Peroxide Production. Journal of the American Chemical Society, 2022, 144, 9902-9909.	13.7	154
77	High surface area amorphous microporous poly(aryleneethynylene) networks using tetrahedral carbon- and silicon-centred monomers. Chemical Communications, 2009, , 212-214.	4.1	152
78	Recent Developments in Materials Synthesis and Processing Using Supercritical CO2. Advanced Materials, 2001, 13, 1111-1114.	21.0	150
79	The changing state of porous materials. Nature Materials, 2021, 20, 1179-1187.	27.5	147
80	Supramolecular Engineering of Intrinsic and Extrinsic Porosity in Covalent Organic Cages. Journal of the American Chemical Society, 2011, 133, 16566-16571.	13.7	146
81	Synthesis of Hierarchically Porous Silica and Metal Oxide Beads Using Emulsion-Templated Polymer Scaffolds. Chemistry of Materials, 2004, 16, 4245-4256.	6.7	145
82	Microporous copolymers for increased gas selectivity. Polymer Chemistry, 2012, 3, 2034.	3.9	140
83	Ultrahigh Surface Area in Porous Solids. Advanced Materials, 2010, 22, 5212-5216.	21.0	137
84	Formation and enhanced biocidal activity of water-dispersable organic nanoparticles. Nature Nanotechnology, 2008, 3, 506-511.	31.5	135
85	Structure-property relationships for covalent triazine-based frameworks: The effect of spacer length on photocatalytic hydrogen evolution from water. Polymer, 2017, 126, 283-290.	3.8	135
86	Layered microporous polymers by solvent knitting method. Science Advances, 2017, 3, e1602610.	10.3	135
87	A Solutionâ€Processable Polymer Photocatalyst for Hydrogen Evolution from Water. Advanced Energy Materials, 2017, 7, 1700479.	19.5	135
88	Three-dimensional protonic conductivity in porous organic cage solids. Nature Communications, 2016, 7, 12750.	12.8	133
89	Synthesis of Monodisperse Emulsion-Templated Polymer Beads by Oil-in-Water-in-Oil (O/W/O) Sedimentation Polymerization. Chemistry of Materials, 2002, 14, 4017-4020.	6.7	132
90	Large Selfâ€Assembled Chiral Organic Cages: Synthesis, Structure, and Shape Persistence. Angewandte Chemie - International Edition, 2011, 50, 10653-10656.	13.8	132

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91	High-throughput discovery of organic cages and catenanes using computational screening fused with robotic synthesis. Nature Communications, 2018, 9, 2849.	12.8	131
92	Palladium Nanoparticle Incorporation in Conjugated Microporous Polymers by Supercritical Fluid Processing. Chemistry of Materials, 2010, 22, 557-564.	6.7	128
93	Linear Conjugated Polymers for Solar-Driven Hydrogen Peroxide Production: The Importance of Catalyst Stability. Journal of the American Chemical Society, 2021, 143, 19287-19293.	13.7	127
94	Porosity-engineered carbons for supercapacitive energy storage using conjugated microporous polymer precursors. Journal of Materials Chemistry A, 2016, 4, 7665-7673.	10.3	126
95	Study of the mechanochemical formation and resulting properties of an archetypal MOF: Cu3(BTC)2 (BTC = 1,3,5-benzenetricarboxylate). CrystEngComm, 2010, 12, 4063.	2.6	123
96	Alkylated organic cages: from porous crystals to neat liquids. Chemical Science, 2012, 3, 2153.	7.4	123
97	Controlling the Crystallization of Porous Organic Cages: Molecular Analogs of Isoreticular Frameworks Using Shape-Specific Directing Solvents. Journal of the American Chemical Society, 2014, 136, 1438-1448.	13.7	122
98	Reticular synthesis of porous molecular 1D nanotubes and 3D networks. Nature Chemistry, 2017, 9, 17-25.	13.6	122
99	In situ crystallization of ionic liquids with melting points below â^'25 Â°C. CrystEngComm, 2006, 8, 742-745.	2.6	121
100	PIM-1 mixed matrix membranes for gas separations using cost-effective hypercrosslinked nanoparticle fillers. Chemical Communications, 2016, 52, 5581-5584.	4.1	121
101	Tracking Charge Transfer to Residual Metal Clusters in Conjugated Polymers for Photocatalytic Hydrogen Evolution. Journal of the American Chemical Society, 2020, 142, 14574-14587.	13.7	118
102	Understanding gas capacity, guest selectivity, and diffusion in porous liquids. Chemical Science, 2017, 8, 2640-2651.	7.4	115
103	High Surface Area Contorted Conjugated Microporous Polymers Based on Spiro-Bipropylenedioxythiophene. Macromolecules, 2010, 43, 7577-7582.	4.8	112
104	Structurally Diverse Covalent Triazine-Based Framework Materials for Photocatalytic Hydrogen Evolution from Water. Chemistry of Materials, 2019, 31, 8830-8838.	6.7	111
105	Formation of Spherical Nanostructures by the Controlled Aggregation of Gold Colloids. Langmuir, 2006, 22, 2938-2941.	3.5	108
106	A smart and responsive crystalline porous organic cage membrane with switchable pore apertures for graded molecular sieving. Nature Materials, 2022, 21, 463-470.	27.5	108
107	Microporous Organic Polymers: Design, Synthesis, and Function. Topics in Current Chemistry, 2009, 293, 1-33.	4.0	107
108	Tuning Photophysical Properties in Conjugated Microporous Polymers by Comonomer Doping Strategies. Chemistry of Materials, 2016, 28, 3469-3480.	6.7	106

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109	Scalable Synthesis of Ultrathin Polyimide Covalent Organic Framework Nanosheets for High-Performance Lithiumâ€"Sulfur Batteries. Journal of the American Chemical Society, 2021, 143, 19446-19453.	13.7	104
110	Post-synthetic modification of conjugated microporous polymers. Polymer, 2014, 55, 321-325.	3.8	100
111	Nanoporous Organics Enter the Cage Age. Angewandte Chemie - International Edition, 2011, 50, 996-998.	13.8	98
112	Tuning of gallery heights in a crystalline 2D carbon nitride network. Journal of Materials Chemistry A, 2013, 1, 1102-1107.	10.3	98
113	A Perspective on the Synthesis, Purification, and Characterization of Porous Organic Cages. Chemistry of Materials, 2017, 29, 149-157.	6.7	96
114	Rapid and Reversible Hydrogen Storage in Clathrate Hydrates Using Emulsionâ€Templated Polymers. Advanced Materials, 2008, 20, 2663-2666.	21.0	93
115	Synthesis of COF-5 using microwave irradiation and conventional solvothermal routes. Microporous and Mesoporous Materials, 2010, 132, 132-136.	4.4	93
116	Maximising the hydrogen evolution activity in organic photocatalysts by co-polymerisation. Journal of Materials Chemistry A, 2018, 6, 11994-12003.	10.3	93
117	Branching out with aminals: microporous organic polymers from difunctional monomers. Polymer Chemistry, 2012, 3, 533-537.	3.9	92
118	Side-chain tuning in conjugated polymer photocatalysts for improved hydrogen production from water. Energy and Environmental Science, 2020, 13, 1843-1855.	30.8	92
119	Using sound to synthesize covalent organic frameworks in water. , 2022, 1, 87-95.		92
120	Reversible water uptake by a stable imine-based porous organic cage. Chemical Communications, 2012, 48, 4689.	4.1	91
121	Molecular Dynamics Simulations of Gas Selectivity in Amorphous Porous Molecular Solids. Journal of the American Chemical Society, 2013, 135, 17818-17830.	13.7	91
122	Conjugated Polymers of Intrinsic Microporosity (Câ€PIMs). Advanced Functional Materials, 2014, 24, 5219-5224.	14.9	89
123	Synthesis of Macroporous Polymer Beads by Suspension Polymerization Using Supercritical Carbon Dioxide as a Pressure-Adjustable Porogen. Macromolecules, 2001, 34, 5-8.	4.8	88
124	A Metalâ^'Organic Framework with a Covalently Prefabricated Porous Organic Linker. Journal of the American Chemical Society, 2010, 132, 12773-12775.	13.7	88
125	Nitrogen Containing Linear Poly(phenylene) Derivatives for Photo-catalytic Hydrogen Evolution from Water. Chemistry of Materials, 2018, 30, 5733-5742.	6.7	88
126	Porous Organic Alloys. Angewandte Chemie - International Edition, 2012, 51, 7154-7157.	13.8	87

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127	Inverse Vulcanized Polymers with Shape Memory, Enhanced Mechanical Properties, and Vitrimer Behavior. Angewandte Chemie - International Edition, 2020, 59, 13371-13378.	13.8	87
128	A Cubic 3D Covalent Organic Framework with nbo Topology. Journal of the American Chemical Society, 2021, 143, 15011-15016.	13.7	87
129	A Soft Porous Organic Cage Crystal with Complex Gas Sorption Behavior. Chemistry - A European Journal, 2011, 17, 10235-10240.	3.3	85
130	Solutionâ€Processable Molecular Cage Micropores for Hierarchically Porous Materials. Advanced Materials, 2012, 24, 5732-5737.	21.0	85
131	SO₂ Capture Using Porous Organic Cages. Angewandte Chemie - International Edition, 2021, 60, 17556-17563.	13.8	85
132	Emulsion polymerization derived organic photocatalysts for improved light-driven hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 2490-2496.	10.3	84
133	Covalent Triazine Frameworks via a Lowâ€Temperature Polycondensation Approach. Angewandte Chemie, 2017, 129, 14337-14341.	2.0	83
134	Control of Porosity Geometry in Amino Acid Derived Nanoporous Materials. Chemistry - A European Journal, 2008, 14, 4521-4532.	3.3	81
135	Molecular Organic Crystals: From Barely Porous to Really Porous. Angewandte Chemie - International Edition, 2012, 51, 7892-7894.	13.8	81
136	CO2-in-Water Emulsion-Templated Poly(vinyl alcohol) Hydrogels Using Poly(vinyl acetate)-Based Surfactants. Macromolecules, 2007, 40, 1955-1961.	4.8	79
137	Covalent Organic Framework Nanosheets Embedding Single Cobalt Sites for Photocatalytic Reduction of Carbon Dioxide. Chemistry of Materials, 2020, 32, 9107-9114.	6.7	79
138	A Pyrene-4,5,9,10-Tetraone-Based Covalent Organic Framework Delivers High Specific Capacity as a Li-Ion Positive Electrode. Journal of the American Chemical Society, 2022, 144, 9434-9442.	13.7	77
139	<i>In silico</i> Design of Supramolecules from Their Precursors: Oddâ€“Even Effects in Cage-Forming Reactions. Journal of the American Chemical Society, 2013, 135, 9307-9310.	13.7	75
140	Dynamic Nuclear Polarization NMR Spectroscopy Allows High-Throughput Characterization of Microporous Organic Polymers. Journal of the American Chemical Society, 2013, 135, 15290-15293.	13.7	74
141	Exfoliation of Crystalline 2D Carbon Nitride: Thin Sheets, Scrolls and Bundles via Mechanical and Chemical Routes. Macromolecular Rapid Communications, 2013, 34, 850-854.	3.9	74
142	Green synthesis of polymers using supercritical carbon dioxide. Current Opinion in Solid State and Materials Science, 2004, 8, 325-331.	11.5	73
143	Predicted crystal energy landscapes of porous organic cages. Chemical Science, 2014, 5, 2235-2245.	7.4	73
144	Integrated Covalent Organic Framework/Carbon Nanotube Composite as Liâ€Ion Positive Electrode with Ultraâ€High Rate Performance. Advanced Energy Materials, 2021, 11, 2101880.	19.5	73

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145	Metallo-Cryptophanes Decorated with Bis-N-Heterocyclic Carbene Ligands: Self-Assembly and Guest Uptake into a Nonporous Crystalline Lattice. Journal of the American Chemical Society, 2014, 136, 14393-14396.	13.7	72
146	pH-Responsive branched polymer nanoparticles. Soft Matter, 2008, 4, 985.	2.7	71
147	Accelerated robotic discovery of type II porous liquids. Chemical Science, 2019, 10, 9454-9465.	7.4	70
148	An Expandable Hydrogen-Bonded Organic Framework Characterized by Three-Dimensional Electron Diffraction. Journal of the American Chemical Society, 2020, 142, 12743-12750.	13.7	70
149	Ultrahigh-permeance PIM-1 based thin film nanocomposite membranes on PAN supports for CO2 separation. Journal of Membrane Science, 2018, 564, 878-886.	8.2	69
150	Reprogramming bacterial protein organelles as a nanoreactor for hydrogen production. Nature Communications, 2020, 11, 5448.	12.8	69
151	Controlling Gas Selectivity in Molecular Porous Liquids by Tuning the Cage Window Size. Angewandte Chemie - International Edition, 2020, 59, 7362-7366.	13.8	69
152	Mesoporous Poly(phenylenevinylene) Networks. Macromolecules, 2008, 41, 1591-1593.	4.8	68
153	Computationally-Guided Synthetic Control over Pore Size in Isostructural Porous Organic Cages. ACS Central Science, 2017, 3, 734-742.	11.3	68
154	Polymerâ€Mediated Hierarchical and Reversible Emulsion Droplet Assembly. Angewandte Chemie - International Edition, 2009, 48, 2131-2134.	13.8	67
155	Selective gas sorption in a [2+3] â€˜propellerâ€™ cage crystal. Chemical Communications, 2011, 47, 8919.	4.1	67
156	Low band-gap benzothiadiazole conjugated microporous polymers. Polymer Chemistry, 2013, 4, 5585.	3.9	66
157	Systematic tuning of pore morphologies and pore volumes in macroporous materials by freezing. Journal of Materials Chemistry, 2009, 19, 5212.	6.7	65
158	Guest control of structure in porous organic cages. Chemical Communications, 2014, 50, 9465-9468.	4.1	65
159	Conjugated polymer donorâ€“molecular acceptor nanohybrids for photocatalytic hydrogen evolution. Chemical Communications, 2020, 56, 6790-6793.	4.1	62
160	Network formation mechanisms in conjugated microporous polymers. Polymer Chemistry, 2014, 5, 6325-6333.	3.9	61
161	Mining predicted crystal structure landscapes with high throughput crystallisation: old molecules, new insights. Chemical Science, 2019, 10, 9988-9997.	7.4	61
162	Atomistic Simulation of Micropore Structure, Surface Area, and Gas Sorption Properties for Amorphous Microporous Polymer Networks. Journal of Physical Chemistry C, 2008, 112, 20549-20559.	3.1	59

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163	Water Oxidation with Cobaltâ€Loaded Linear Conjugated Polymer Photocatalysts. Angewandte Chemie - International Edition, 2020, 59, 18695-18700.	13.8	55
164	Synthesis of Emulsion-Templated Poly(acrylamide) Using CO2-in-Water Emulsions and Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	4.8	53
165	Trapping virtual pores by crystal retro-engineering. Nature Chemistry, 2015, 7, 153-159.	13.6	52
166	Using intermolecular interactions to crosslink PIM-1 and modify its gas sorption properties. Journal of Materials Chemistry A, 2015, 3, 4855-4864.	10.3	52
167	Dynamic flow synthesis of porous organic cages. Chemical Communications, 2015, 51, 17390-17393.	4.1	52
168	From Concept to Crystals via Prediction: Multiâ€Component Organic Cage Pots by Social Selfâ€Sorting. Angewandte Chemie - International Edition, 2019, 58, 16275-16281.	13.8	52
169	Photocatalyst Z-scheme system composed of a linear conjugated polymer and BiVO₄ for overall water splitting under visible light. Journal of Materials Chemistry A, 2020, 8, 16283-16290.	10.3	52
170	Combining machine learning and high-throughput experimentation to discover photocatalytically active organic molecules. Chemical Science, 2021, 12, 10742-10754.	7.4	52
171	Uploading and Temperature-Controlled Release of Polymeric Colloids via Hydrophilic Emulsion-Templated Porous Polymers. ACS Applied Materials & Interfaces, 2010, 2, 1400-1406.	8.0	50
172	Dodecaamide Cages: Organic 12-Arm Building Blocks for Supramolecular Chemistry. Journal of the American Chemical Society, 2013, 135, 10007-10010.	13.7	50
173	Structural Control in Porous Cross-Linked Poly(methacrylate) Monoliths Using Supercritical Carbon Dioxide as a â€œPressure-Adjustableâ€• Porogenic Solvent. Chemistry of Materials, 2003, 15, 2061-2069.	6.7	48
174	Cooperative carbon capture. Nature, 2015, 519, 294-295.	27.8	48
175	High surface area sulfur-doped microporous carbons from inverse vulcanised polymers. Journal of Materials Chemistry A, 2017, 5, 18603-18609.	10.3	47
176	Hydrogen evolution from water using heteroatom substituted fluorene conjugated co-polymers. Journal of Materials Chemistry A, 2020, 8, 8700-8705.	10.3	47
177	Pausing a stir: heterogeneous catalysis in â€œdry waterâ€• Green Chemistry, 2010, 12, 783.	9.0	46
178	Reversible Methane Storage in a Polymer-Supported Semi-Clathrate Hydrate at Ambient Temperature and Pressure. Chemistry of Materials, 2009, 21, 3810-3815.	6.7	45
179	Shining a Light on <i>s</i>-Triazine-Based Polymers. Journal of Physical Chemistry C, 2014, 118, 4314-4324.	3.1	45
180	Computational Screening of Porous Organic Molecules for Xenon/Krypton Separation. Journal of Physical Chemistry C, 2017, 121, 15211-15222.	3.1	45

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181	Coreâ€"Shell Crystals of Porous Organic Cages. Angewandte Chemie - International Edition, 2018, 57, 11228-11232.	13.8	45
182	Photocatalytic proton reduction by a computationally identified, molecular hydrogen-bonded framework. Journal of Materials Chemistry A, 2020, 8, 7158-7170.	10.3	45
183	Synthesis of Well-Defined Macroporous Polymer Monoliths by Solâ^'Gel Polymerization in Supercritical CO2. Industrial & Engineering Chemistry Research, 2000, 39, 4741-4744.	3.7	44
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