Michael J Zaworotko

List of Publications by Year
in descending order

513 papers	53,058 citations	1530 106 h-index	1589 216 g-index
556 all docs	556 docs citations	556 times ranked	23206 citing authors

#	Article	IF	Citations
1	From Molecules to Crystal Engineering:â€‰ Supramolecular Isomerism and Polymorphism in Network Solids. Chemical Reviews, 2001, 101, 1629-1658.	23.0	6,228
2	Porous materials with optimal adsorption thermodynamics and kinetics for CO2 separation. Nature, 2013, 495, 80-84.	13.7	2,005
3	Design and synthesis of metalâ€“organic frameworks using metalâ€“organic polyhedra as supermolecular building blocks. Chemical Society Reviews, 2009, 38, 1400.	18.7	1,630
4	Air and water stable 1-ethyl-3-methylimidazolium based ionic liquids. Journal of the Chemical Society Chemical Communications, 1992, , 965.	2.0	1,604
5	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. Science, 2016, 353, 141-144.	6.0	1,088
6	Crystal engineering of the composition of pharmaceutical phases. Do pharmaceutical co-crystals represent a new path to improved medicines?. Chemical Communications, 2004, , 1889.	2.2	910
7	Pharmaceutical Co-Crystals. Journal of Pharmaceutical Sciences, 2006, 95, 499-516.	1.6	841
8	Supramolecular Isomerism in Coordination Polymers: Conformational Freedom of Ligands in[Co(NO3)2(1,2-bis(4-pyridyl)ethane)1.5]n. Angewandte Chemie International Edition in English, 1997, 36, 972-973.	4.4	793
9	Polymorphs, Salts, and Cocrystals: Whatâ€™s in a Name?. Crystal Growth and Design, 2012, 12, 2147-2152.	1.4	767
10	Superstructural diversity in two dimensions: crystal engineering of laminated solids. Chemical Communications, 2001, , 1-9.	2.2	756
11	Pharmaceutical cocrystals: along the path to improved medicines. Chemical Communications, 2016, 52, 640-655.	2.2	753
12	Enhanced CO₂ Binding Affinity of a High-Uptake rht-Type Metalâ€“Organic Framework Decorated with Acylamide Groups. Journal of the American Chemical Society, 2011, 133, 748-751.	6.6	722
13	Crystal engineering of diamondoid networks. Chemical Society Reviews, 1994, 23, 283.	18.7	711
14	Porous Solids by Design:[Zn(4,4â€²-bpy)2(SiF6)]nÂ·xDMF, a Single Framework Octahedral Coordination Polymer with Large Square Channels. Angewandte Chemie International Edition in English, 1995, 34, 2127-2129.	4.4	701
15	The role of cocrystals in pharmaceutical science. Drug Discovery Today, 2008, 13, 440-446.	3.2	643
16	Supermolecular Building Blocks (SBBs) for the Design and Synthesis of Highly Porous Metal-Organic Frameworks. Journal of the American Chemical Society, 2008, 130, 1833-1835.	6.6	628
17	Crystal Engineering of the Composition of Pharmaceutical Phases:â€‰ Multiple-Component Crystalline Solids Involving Carbamazepine. Crystal Growth and Design, 2003, 3, 909-919.	1.4	493
18	Exploitation of the hydrogen bond: recent developments in the context of crystal engineering. Coordination Chemistry Reviews, 1994, 137, 357-401.	9.5	437

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19	Hierarchy of Supramolecular Synthons: Persistent Carboxylic AcidÂ·Â·Â·Pyridine Hydrogen Bonds in Cocrystals That also Contain a Hydroxyl Moiety. Crystal Growth and Design, 2008, 8, 4533-4545.	1.4	430
20	A Noninterpenetrated Molecular Ladder with Hydrophobic Cavities. Angewandte Chemie International Edition in English, 1996, 35, 2779-2782.	4.4	426
21	Direct Air Capture of CO₂ by Physisorbent Materials. Angewandte Chemie - International Edition, 2015, 54, 14372-14377.	7.2	382
22	Synthesis and Structural Characterization of Cocrystals and Pharmaceutical Cocrystals: Mechanochemistry vs Slow Evaporation from Solution. Crystal Growth and Design, 2009, 9, 1106-1123.	1.4	379
23	Helical Coordination Polymers with Large Chiral Cavities. Angewandte Chemie - International Edition, 1999, 38, 492-495.	7.2	371
24	Robust Ultramicroporous Metalâ€“Organic Frameworks with Benchmark Affinity for Acetylene. Angewandte Chemie - International Edition, 2018, 57, 10971-10975.	7.2	365
25	Temperature and Concentration Control over Interpenetration in a Metalâ˜’Organic Material. Journal of the American Chemical Society, 2009, 131, 17040-17041.	6.6	361
26	Synergistic sorbent separation for one-step ethylene purification from a four-component mixture. Science, 2019, 366, 241-246.	6.0	360
27	Self-Assembly of Nanometer-Scale Secondary Building Units into an Undulating Two-Dimensional Network with Two Types of Hydrophobic Cavity. Angewandte Chemie - International Edition, 2001, 40, 2111-2113.	7.2	350
28	Performance comparison of a co-crystal of carbamazepine with marketed product. European Journal of Pharmaceutics and Biopharmaceutics, 2007, 67, 112-119.	2.0	349
29	Benchmark C2H2/CO2 and CO2/C2H2 Separation by Two Closely Related Hybrid Ultramicroporous Materials. CheM, 2016, 1, 753-765.	5.8	349
30	Interwoven two- and three-dimensional coordination polymers through self-assembly of Cu I cations with linear bidentate ligands. Journal of the Chemical Society Chemical Communications, 1994, , 1325.	2.0	339
31	Crystal engineering of the composition of pharmaceutical phases. Chemical Communications, 2003, , 186-187.	2.2	326
32	A Mixed-Crystal Lanthanide Zeolite-like Metalâ€“Organic Framework as a Fluorescent Indicator for Lysophosphatidic Acid, a Cancer Biomarker. Journal of the American Chemical Society, 2015, 137, 12203-12206.	6.6	324
33	Supramolecular Isomerism in Coordination Compounds:Â Nanoscale Molecular Hexagons and Chains. Journal of the American Chemical Society, 2002, 124, 9990-9991.	6.6	316
34	Cocrystals of Quercetin with Improved Solubility and Oral Bioavailability. Molecular Pharmaceutics, 2011, 8, 1867-1876.	2.3	314
35	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. Advanced Materials, 2017, 29, 1704210.	11.1	310
36	The Predictably Elusive Form II of Aspirin. Journal of the American Chemical Society, 2005, 127, 16802-16803.	6.6	309

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37	Highly Selective Carbon Dioxide Uptake by [Cu(bpy-n)₂(SiF₆)] (bpy-1 =) Tj ETQq1 1 0.784314 rgBT /O 3663-3666.	6.6	303
38	Supermolecular Building Blocks (SBBs) and Crystal Design:â€‰ 12-Connected Open Frameworks Based on a Molecular Cubohemioctahedron. Journal of the American Chemical Society, 2008, 130, 1560-1561.	6.6	300
39	Novel Nanoporous Coordination Polymer Sustained by Self-Assembly of T-Shaped Moieties. Journal of the American Chemical Society, 1999, 121, 2599-2600.	6.6	288
40	Crystal Engineering of a Nanoscale KagomÃ© Lattice. Angewandte Chemie - International Edition, 2002, 41, 2821-2824.	7.2	283
41	Molecules to Crystals, Crystals to Molecules ... and Back Again?. Crystal Growth and Design, 2007, 7, 4-9.	1.4	280
42	Template-directed synthesis of metalâ€“organic materials. Chemical Society Reviews, 2014, 43, 5444-5455.	18.7	254
43	Templated Synthesis, Postsynthetic Metal Exchange, and Properties of a Porphyrin-Encapsulating Metalâ€“Organic Material. Journal of the American Chemical Society, 2012, 134, 924-927.	6.6	238
44	Tuning Pore Size in Squareâ€Lattice Coordination Networks for Sizeâ€Selective Sieving of CO₂. Angewandte Chemie - International Edition, 2016, 55, 10268-10272.	7.2	237
45	A Robust Molecular Porous Material with High CO₂ Uptake and Selectivity. Journal of the American Chemical Society, 2013, 135, 10950-10953.	6.6	236
46	A 3D metal-organic network, [Cu2(glutarate)2(4,4â€²-bipyridine)], that exhibits single-crystal to single-crystal dehydration and rehydrationElectronic supplementary information (ESI) available: experimental details, IR, TGA and XRPD of all compounds. See http://www.rsc.org/suppdata/cc/b3/b301219k/.. Chemical Communications, 2003, , 830-831.	2.2	225
47	Pharmaceutical cocrystals: from serendipity to design to application. Drug Discovery Today, 2019, 24, 796-804.	3.2	219
48	Effects of Crystal Form on Solubility and Pharmacokinetics: A Crystal Engineering Case Study of Lamotrigine. Crystal Growth and Design, 2010, 10, 394-405.	1.4	213
49	Structureâ^'Stability Relationships in Cocrystal Hydrates: Does the Promiscuity of Water Make Crystalline Hydrates the Nemesis of Crystal Engineering?. Crystal Growth and Design, 2010, 10, 2152-2167.	1.4	211
50	Nanoballs: nanoscale faceted polyhedra with large windows and cavities. Chemical Communications, 2001, , 863-864.	2.2	210
51	Triple interpenetration in [Ag(4,4â€²-bipyridine)][NO3], a cationic polymer with a three-dimensional motif generated by self-assembly of â€˜T-shapedâ€™ building blocks. Journal of the Chemical Society Chemical Communications, 1995, , 2413-2414.	2.0	209
52	Crystal engineering of pharmaceutical co-crystals from polymorphic active pharmaceutical ingredients. Chemical Communications, 2005, , 4601.	2.2	207
53	Bottom up Synthesis That Does Not Start at the Bottom:â€‰ Quadruple Covalent Cross-Linking of Nanoscale Faceted Polyhedra. Journal of the American Chemical Society, 2007, 129, 10076-10077.	6.6	203
54	Coformer Selection in Pharmaceutical Cocrystal Development: a Case Study of a Meloxicam Aspirin Cocrystal That Exhibits Enhanced Solubility and Pharmacokinetics. Journal of Pharmaceutical Sciences, 2011, 100, 2172-2181.	1.6	201

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55	Polygons and Faceted Polyhedra and Nanoporous Networks. Angewandte Chemie - International Edition, 2001, 40, 2113-2116.	7.2	188
56	The 2-Aminopyridinium-carboxylate Supramolecular Heterosynthon:â€‰ A Robust Motif for Generation of Multiple-Component Crystals. Crystal Growth and Design, 2005, 5, 1169-1179.	1.4	183
57	Fine Tuning and Specific Binding Sites with a Porous Hydrogen-Bonded Metal-Complex Framework for Gas Selective Separations. Journal of the American Chemical Society, 2018, 140, 4596-4603.	6.6	181
58	Crystal structure of the coordination polymer [Co(bipy)1.5(NO3)2]Â·CS2 (bipy=4,4â€²-bipyridine), a new motif for a network sustained by â€˜T-shapeâ€™ building blocks. New Journal of Chemistry, 1998, 22, 177-181.	1.4	179
59	X-Ray crystal structure of C6H3(CO2H)3-1,3,5Â·1.5(4,4â€²-bipy): a â€˜super trimesic acidâ€™ chicken-wire grid. Chemical Communications, 1996, , 2655-2656.	2.2	177
60	Hierarchy of Supramolecular Synthons:â€‰ Persistent HydroxylÂ·Â·Â·Pyridine Hydrogen Bonds in Cocrystals That Contain a Cyano Acceptor. Molecular Pharmaceutics, 2007, 4, 401-416.	2.3	175
61	Mimicking Heme Enzymes in the Solid State: Metalâ€“Organic Materials with Selectively Encapsulated Heme. Journal of the American Chemical Society, 2011, 133, 10356-10359.	6.6	174
62	Synthesis and Solution and Solid-State Structures of Tris(pentafluorophenyl)borane Adducts of PhC(O)X (X = H, Me, OEt, NPri2). Organometallics, 1998, 17, 1369-1377.	1.1	171
63	Ternary Nets formed by Self-Assembly of Triangles, Squares, and Tetrahedra. Angewandte Chemie - International Edition, 2005, 44, 2877-2880.	7.2	171
64	Supramolecular Synthesis of Organic Laminates with Affinity for Aromatic Guests:Â A New Class of Clay Mimics. Journal of the American Chemical Society, 1998, 120, 11894-11903.	6.6	169
65	Toward the Design of Porous Organic Solids: Modular Honeycomb Grids Sustained by Anions of Trimesic Acid. Angewandte Chemie International Edition in English, 1996, 35, 2213-2215.	4.4	168
66	Bivalent germanium, tin, and lead 2,6-di-tert-butylphenoxides and the crystal and molecular structures of M(OC6H2Me-4-But2-2,6)2 (M = Ge or Sn). Journal of the American Chemical Society, 1980, 102, 2088-2089.	6.6	163
67	Coordination polymers: toward functional transition metal sustained materials and supermolecules. Current Opinion in Solid State and Materials Science, 2002, 6, 117-123.	5.6	161
68	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gateâ€Opening at Methane Storage Pressures. Angewandte Chemie - International Edition, 2018, 57, 5684-5689.	7.2	161
69	X-Ray crystal structure of {Cu[1,2-bis(4-pyridyl)ethane]2(NO3)2}n: the first example of a coordination polymer that exhibits the NbO 3D network architectureâ€. Chemical Communications, 1998, , 595-596.	2.2	156
70	DFT Computational Rationalization of an Unusual Spin Ground State in an Mn12 Single-Molecule Magnet with a Low-Symmetry Loop Structure. Angewandte Chemie - International Edition, 2005, 44, 897-901.	7.2	156
71	Exciplex Fluorescence as a Diagnostic Probe of Structure in Coordination Polymers of Zn2+and 4,4â€²-Bipyridine Containing Intercalated Pyrene and Enclathrated Aromatic Solvent Guests. Journal of the American Chemical Society, 2007, 129, 9094-9101.	6.6	156
72	Template-Directed Synthesis of Nets Based upon Octahemioctahedral Cages That Encapsulate Catalytically Active Metalloporphyrins. Journal of the American Chemical Society, 2012, 134, 928-933.	6.6	155

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73	Crystal Engineering of a Microporous, Catalytically Active fcu Topology MOF Using a Customâ€Designed Metalloporphyrin Linker. Angewandte Chemie - International Edition, 2012, 51, 10082-10085.	7.2	154
74	Stable Superhydrophobic Ceramic-Based Carbon Nanotube Composite Desalination Membranes. Nano Letters, 2018, 18, 5514-5521.	4.5	153
75	Para-acyl-calix-arene based solid lipid nanoparticles (SLNs): a detailed study of preparation and stability parameters. International Journal of Pharmaceutics, 2003, 253, 23-38.	2.6	147
76	A new 65.8 topology and a distorted 65.8 CdSO4 topology: two new supramolecular isomers of [M2(bdc)2(L)2]n coordination polymersElectronic supplementary information (ESI) available: schematic illustrations of some common 4-connected 3D networks. See http://www.rsc.org/suppdata/cc/b3/b301221b/. Chemical Communications, 2003, , 1342.	2.2	145
77	Trace CO ₂ capture by an ultramicroporous physisorbent with low water affinity. Science Advances, 2019, 5, eaax9171.	4.7	143
78	Pore Engineering for One-Step Ethylene Purification from a Three-Component Hydrocarbon Mixture. Journal of the American Chemical Society, 2021, 143, 1485-1492.	6.6	143
79	Tetranuclear Copper(II) and Nickel(II) Cluster Complexes Derived by Self-Assembly from a Series of Tetradentate Diazine Ligands:Â Structural and Magnetic Studies. Inorganic Chemistry, 1999, 38, 5266-5276.	1.9	142
80	Synthesis of a Chiral Crystal Form of MOF-5, CMOF-5, by Chiral Induction. Journal of the American Chemical Society, 2015, 137, 15406-15409.	6.6	139
81	Hybrid Ultraâ€Microporous Materials for Selective Xenon Adsorption and Separation. Angewandte Chemie - International Edition, 2016, 55, 8285-8289.	7.2	137
82	Metalâ€“Organic Organopolymeric Hybrid Framework by Reversible [2+2] Cycloaddition Reaction. Angewandte Chemie - International Edition, 2014, 53, 414-419.	7.2	136
83	The Reemergence of Cocrystals: The Crystal Clear Writing Is on the WallIntroduction to Virtual Special Issue on Pharmaceutical Cocrystals. Crystal Growth and Design, 2009, 9, 4208-4211.	1.4	135
84	Hierarchy of Supramolecular Synthons: Persistent Hydrogen Bonds Between Carboxylates and Weakly Acidic Hydroxyl Moieties in Cocrystals of Zwitterions. Crystal Growth and Design, 2010, 10, 3568-3584.	1.4	133
85	From Disymmetric Molecules to Chiral Polymers: A New Twist for Supramolecular Synthesis?. Angewandte Chemie - International Edition, 1998, 37, 1211-1213.	7.2	132
86	Covalent and noncovalent interpenetrating planar networks in the crystal structure of {[Ni(4,4â€²-bipyridine)2(NO3)2Â·2pyrene}n. Chemical Communications, 1999, , 1327-1328.	2.2	132
87	Crystal engineering of the composition of pharmaceutical phases. 3. Primary amide supramolecular heterosynthons and their role in the design of pharmaceutical co-crystals. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, .	0.4	127
88	Supramolecular chemistry of manganese complex [Mn(CO)3(.mu.3-OH)]4: assembly of a cubic hydrogen-bonded diamondoid network with 1,2-diaminoethane. Journal of the American Chemical Society, 1992, 114, 8719-8720.	6.6	126
89	Periodic Tiling of Pentagons:Â The First Example of a Two-Dimensional -net. Journal of the American Chemical Society, 2001, 123, 9224-9225.	6.6	124
90	[M₃(Î¼₃-O)(O₂CR)₆] and related trigonal prisms: versatile molecular building blocks for crystal engineering of metalâ€“organic material platforms. Chemical Science, 2014, 5, 1269-1282.	3.7	124

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91	Self-Healing Hyper-Cross-Linked Metalâ€“Organic Polyhedra (HCMOPs) Membranes with Antimicrobial Activity and Highly Selective Separation Properties. Journal of the American Chemical Society, 2019, 141, 12064-12070.	6.6	124
92	Scalable Room-Temperature Synthesis of Highly Robust Ethane-Selective Metalâ€“Organic Frameworks for Efficient Ethylene Purification. Journal of the American Chemical Society, 2021, 143, 8654-8660.	6.6	124
93	Antibodies@MOFs: An In Vitro Protective Coating for Preparation and Storage of Biopharmaceuticals. Advanced Materials, 2019, 31, e1805148.	11.1	123
94	Crystal engineering of porous coordination networks to enable separation of C2 hydrocarbons. Chemical Communications, 2020, 56, 10419-10441.	2.2	123
95	18-Fold Interpenetration and Concomitant Polymorphism in the 2:3 Co-Crystal of Trimesic Acid and 1,2-Bis(4-pyridyl)ethaneâ€. Crystal Growth and Design, 2005, 5, 2046-2049.	1.4	122
96	Effect of ring rotation upon gas adsorption in SIFSIX-3-M (M = Fe, Ni) pillared square grid networks. Chemical Science, 2017, 8, 2373-2380.	3.7	121
97	Cooperative bonding affords a holesome story. Nature, 1997, 386, 220-221.	13.7	119
98	Fine Tuning of MOFâ€505 Analogues To Reduce Lowâ€Pressure Methane Uptake and Enhance Methane Working Capacity. Angewandte Chemie - International Edition, 2017, 56, 11426-11430.	7.2	119
99	Network Diversity through Decoration of Trigonalâ€Prismatic Nodes: Twoâ€Step Crystal Engineering of Cationic Metalâ€“Organic Materials. Angewandte Chemie - International Edition, 2011, 50, 11421-11424.	7.2	118
100	Designer pores made easy. Nature, 2008, 451, 410-411.	13.7	117
101	PorÃ¶se FestkÃ¶rper nach Plan: [Zn(4,4â€²â€bpy)₂(SiF₆)]_n Â· ï‡ DMF, ein Koordinationspolymer mit groÃŸen quadratischen KanÃlen. Angewandte Chemie, 1995, 107, 2295-2297.	1.6	116
102	A Supramolecular Analogue of Cyclohexane Sustained by Aromatic Câˆ’HÂ·Â·Â·Ï€ Interactions:Â Complexes of 1,3,5-Trihydroxybenzene with Substituted Pyridines. Journal of the American Chemical Society, 1998, 120, 6431-6432.	6.6	116
103	Highly Selective Separation of C₂H₂ from CO₂ by a New Dichromate-Based Hybrid Ultramicroporous Material. ACS Applied Materials & Interfaces, 2017, 9, 33395-33400.	4.0	116
104	Hydrophobic pillared square grids for selective removal of CO₂ from simulated flue gas. Chemical Communications, 2015, 51, 15530-15533.	2.2	115
105	A new supramolecular isomer of [Zn(nicotinate)2]n: a novel 42.84 network that is the result of self-assembly of 4-connected nodesElectronic supplementary information (ESI) available: experimental details, TGA and XRPD of all compounds. See http://www.rsc.org/suppdata/cc/b1/b111280p/. Chemical Communications, 2002, , 694-695.	2.2	112
106	Highly Selective CO₂ Uptake in Uninodal 6-Connected â€œmmoâ€•Nets Based upon MO₄^{2â€“} (M = Cr, Mo) Pillars. Journal of the American Chemical Society, 2012, 134, 19556-19559.	6.6	110
107	Impact of pharmaceutical cocrystals: the effects on drug pharmacokinetics. Expert Opinion on Drug Metabolism and Toxicology, 2014, 10, 1255-1271.	1.5	109
108	Trace removal of benzene vapour using double-walled metalâ€“dipyrazolate frameworks. Nature Materials, 2022, 21, 689-695.	13.3	109

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109	Coordination Polymers from Calixarene-Like [Cu2(Dicarboxylate)2]4Building Blocks:â€‰ Structural Diversity via Atropisomerism. Crystal Growth and Design, 2003, 3, 513-519.	1.4	108
110	Supramolecular Architectures of Meloxicam Carboxylic Acid Cocrystals, a Crystal Engineering Case Study. Crystal Growth and Design, 2010, 10, 4401-4413.	1.4	108
111	Sextuplet phenyl embrace in a metalâ€“organic KagomÃ© lattice. Chemical Communications, 2004, , 2534-2535.	2.2	107
112	Postâ€Synthetic Modification of Porphyrinâ€Encapsulating Metalâ€“Organic Materials by Cooperative Addition of Inorganic Salts to Enhance CO₂CH₄ Selectivity. Angewandte Chemie - International Edition, 2012, 51, 9330-9334.	7.2	106
113	Putting the Squeeze on CH₄ and CO₂ through Control over Interpenetration in Diamondoid Nets. Journal of the American Chemical Society, 2014, 136, 5072-5077.	6.6	106
114	The first stable zirconium alkylidene complex formed via .alpha.-hydrogen abstraction: synthesis and x-ray crystal structure of [.eta.5-C5H3-1,3-(SiMe2CH2PPri2)2]Zr:CHPh(Cl). Journal of the American Chemical Society, 1993, 115, 5336-5337.	6.6	105
115	Use of Alkane Elimination in the One-Step Synthesis of Organoscandium Complexes Containing a New Multidentate Cyclopentadienyl Ligand. Organometallics, 1996, 15, 2720-2726.	1.1	104
116	Improving Solubility and Pharmacokinetics of Meloxicam via Multiple-Component Crystal Formation. Molecular Pharmaceutics, 2012, 9, 2094-2102.	2.3	104
117	Suprasupermolecular Chemistry:â€‰ Infinite Networks from Nanoscale Metalâ^'Organic Building Blocksâ€. Crystal Growth and Design, 2004, 4, 11-13.	1.4	103
118	Exciplex fluorescence of {[Zn(bipy)1.5(NO3)2}]Â·CH3OHÂ·0.5pyrene}n: a coordination polymer containing intercalated pyrene molecules (bipy = 4,4â€²-bipyridine). Chemical Communications, 2002, , 2176-2177.	2.2	102
119	Competing Pathways in the Reaction of Bis(pentafluorophenyl)borane with Bis(Î·5-cyclopentadienyl)dimethylzirconium: Methane Elimination versus Methylâ€“Hydride Exchange and an Example of Pentacoordinate Carbon. Angewandte Chemie International Edition in English, 1995, 34, 1230-1233.	4.4	101
120	Template Synthesis and Single-Molecule Magnetism Properties of a Complex with Spin S = 16 and a [Mn8O8]8+ Saddle-Like Core. Journal of the American Chemical Society, 2003, 125, 15274-15275.	6.6	100
121	Hybrid ultramicroporous materials (HUMs) with enhanced stability and trace carbon capture performance. Chemical Communications, 2017, 53, 5946-5949.	2.2	99
122	Soft Porous Crystal Based upon Organic Cages That Exhibit Guest-Induced Breathing and Selective Gas Separation. Journal of the American Chemical Society, 2019, 141, 9408-9414.	6.6	98
123	Substituent interactions in .eta.6-arene complexes. 1. Systematic x-ray crystallographic study of the structural manifestations of .pi.-donor and .pi.-acceptor substituent effects in substituted chromium (.eta.6-arene)Cr(CO)3 complexes. Organometallics, 1992, 11, 1550-1560.	1.1	97
124	Mechanistic Aspects of the Reactions of Bis(pentafluorophenyl)borane with the Dialkyl Zirconocenes Cp2ZrR2 (R = CH3, CH2SiMe3, and CH2C6H5). Organometallics, 1998, 17, 2459-2469.	1.1	97
125	A Chiral Metal-Organic Material that Enables Enantiomeric Identification and Purification. CheM, 2017, 3, 281-289.	5.8	97
126	Polymeric end-to-end bibridged cadmium(II)thiocyanates containing monodentate and bidentate N-donor organic blockers: supramolecular synthons based on Ï€â€“Ï€ and/or Câ€“Hâ‹¯Ï€ interactions. Polyhedron, 2004, 23, 2045-2053.	1.0	95

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127	Stepwise Transformation of the Molecular Building Blocks in a Porphyrin-Encapsulating Metalâ€“Organic Material. Journal of the American Chemical Society, 2013, 135, 5982-5985.	6.6	94
128	A Family of Porous Lonsdaleite-e Networks Obtained through Pillaring of Decorated KagomÃ© Lattice Sheets. Journal of the American Chemical Society, 2013, 135, 14016-14019.	6.6	93
129	Vertex-directed self-assembly of a high symmetry supermolecular building block using a custom-designed porphyrin. Chemical Science, 2012, 3, 2823.	3.7	92
130	Hydroxylated nanoballs: synthesis, crystal structure, solubility and crystallization on surfaces. Chemical Communications, 2001, , 2380-2381.	2.2	91
131	Structural Insight into Guest Binding Sites in a Porous Homochiral Metalâ€“Organic Material. Journal of the American Chemical Society, 2015, 137, 12045-12049.	6.6	91
132	Self-Assembly of Goldberg Polyhedra from a Concave [WV₅O₁₁(RCO₂)₅(SO₄)]^{3â€“} Building Block with 5-Fold Symmetry. Journal of the American Chemical Society, 2018, 140, 17365-17368.	6.6	91
133	Water Vapor Sorption in Hybrid Pillared Square Grid Materials. Journal of the American Chemical Society, 2017, 139, 8508-8513.	6.6	90
134	A dynamic and multi-responsive porous flexible metalâ€“organic material. Nature Communications, 2018, 9, 3080.	5.8	89
135	The asc Trinodal Platform: Twoâ€Step Assembly of Triangular, Tetrahedral, and Trigonalâ€Prismatic Molecular Building Blocks. Angewandte Chemie - International Edition, 2013, 52, 2902-2905.	7.2	88
136	Enhancement of CO2 selectivity in a pillared pcu MOM platform through pillar substitution. Chemical Communications, 2013, 49, 1606.	2.2	87
137	Robust Ultramicroporous Metalâ€“Organic Frameworks with Benchmark Affinity for Acetylene. Angewandte Chemie, 2018, 130, 11137-11141.	1.6	85
138	Chemical Investigation of Predator-Deterred Macroalgae from the Antarctic Peninsula. Journal of Natural Products, 2004, 67, 1295-1302.	1.5	84
139	The A to Z of pharmaceutical cocrystals: a decade of fast-moving new science and patents. Pharmaceutical Patent Analyst, 2012, 1, 313-327.	0.4	84
140	Flue-gas and direct-air capture of CO ₂ by porous metalâ€“organic materials. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160025.	1.6	80
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