Martin Schroder

List of Publications by Year
in descending order

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519 papers	31,732 citations	4146 87 h-index	6654 156 g-index
548 all docs	548 docs citations	548 times ranked	17108 citing authors

#	Article	IF	Citations
1	Inorganic crystal engineering using self-assembly of tailored building-blocks. Coordination Chemistry Reviews, 1999, 183, 117-138.	18.8	1,675
2	Supramolecular design of one-dimensional coordination polymers based on silver(I) complexes of aromatic nitrogen-donor ligands. Coordination Chemistry Reviews, 2001, 222, 155-192.	18.8	1,129
3	High Capacity Hydrogen Adsorption in Cu(II) Tetracarboxylate Framework Materials: The Role of Pore Size, Ligand Functionalization, and Exposed Metal Sites. Journal of the American Chemical Society, 2009, 131, 2159-2171.	13.7	723
4	High H2 Adsorption by Coordination-Framework Materials. Angewandte Chemie - International Edition, 2006, 45, 7358-7364.	13.8	692
5	Osmium tetraoxide cis hydroxylation of unsaturated substrates. Chemical Reviews, 1980, 80, 187-213.	47.7	576
6	Supramolecular binding and separation of hydrocarbons within a functionalized porous metalâ€“organic framework. Nature Chemistry, 2015, 7, 121-129.	13.6	530
7	New Approaches to the Analysis of High Connectivity Materials:â€‰ Design Frameworks Based upon 44- and 63-Subnet Tectons. Accounts of Chemical Research, 2005, 38, 335-348.	15.6	529
8	Anion Control in Bipyridylsilver(I) Networks: A Helical Polymeric Array. Angewandte Chemie International Edition in English, 1997, 36, 2327-2329.	4.4	473
9	Selectivity and direct visualization of carbon dioxide and sulfur dioxide in a decorated porous host. Nature Chemistry, 2012, 4, 887-894.	13.6	466
10	OLEX: new software for visualization and analysis of extended crystal structures. Journal of Applied Crystallography, 2003, 36, 1283-1284.	4.5	447
11	A partially interpenetrated metalâ€“organic framework for selective hysteretic sorption ofÂcarbon dioxide. Nature Materials, 2012, 11, 710-716.	27.5	430
12	Cation-induced kinetic trapping and enhanced hydrogen adsorption in a modulated anionic metalâ€“organic framework. Nature Chemistry, 2009, 1, 487-493.	13.6	375
13	Chemistry of Thioether Macrocyclic Complexes. Advances in Inorganic Chemistry, 1990, 35, 1-80.	1.0	369
14	Exceptional Thermal Stability in a Supramolecular Organic Framework: Porosity and Gas Storage. Journal of the American Chemical Society, 2010, 132, 14457-14469.	13.7	369
15	Solvent Control in the Synthesis of 3,6-Bis(pyridin-3-yl)-1,2,4,5-tetrazine-Bridged Cadmium(II) and Zinc(II) Coordination Polymers. Inorganic Chemistry, 1999, 38, 2259-2266.	4.0	329
16	Exceptionally high H2 storage by a metalâ€“organic polyhedral framework. Chemical Communications, 2009, , 1025.	4.1	316
17	A Porous Framework Polymer Based on a Zinc(II) 4,4â€˜-Bipyridine-2,6,2â€˜,6â€˜-tetracarboxylate:Â Synthesis, Structure, and â€œZeolite-Likeâ€•Behaviors. Journal of the American Chemical Society, 2006, 128, 10745-10753.	13.7	296
18	A Robust Binary Supramolecular Organic Framework (SOF) with High CO₂ Adsorption and Selectivity. Journal of the American Chemical Society, 2014, 136, 12828-12831.	13.7	287

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19	Metalâ"Organic Polyhedral Frameworks: High H₂ Adsorption Capacities and Neutron Powder Diffraction Studies. Journal of the American Chemical Society, 2010, 132, 4092-4094.	13.7	281
20	Hydrogen storage in metalâ€"organic frameworks. CrystEngComm, 2007, 9, 438-448.	2.6	271
21	Studies on Metalâ€"Organic Frameworks of Cu(II) with Isophthalate Linkers for Hydrogen Storage. Accounts of Chemical Research, 2014, 47, 296-307.	15.6	261
22	Lanthanum Coordination Networks Based on Unusual Five-Connected Topologies. Journal of the American Chemical Society, 2001, 123, 3401-3402.	13.7	230
23	Random Tiling and Topological Defects in a Two-Dimensional Molecular Network. Science, 2008, 322, 1077-1081.	12.6	224
24	High capacity gas storage by a 4,8-connected metalâ€"organic polyhedral framework. Chemical Communications, 2011, 47, 4487.	4.1	220
25	Twelve-connected porous metalâ€"organic frameworks with high H2adsorption. Chemical Communications, 2007, , 840-842.	4.1	219
26	Selective Adsorption of Sulfur Dioxide in a Robust Metalâ€"Organic Framework Material. Advanced Materials, 2016, 28, 8705-8711.	21.0	214
27	Topological isomerism in coordination polymers. Chemical Communications, 2001, , 1432-1433.	4.1	213
28	Structural and dynamic studies of substrate binding in porous metalâ€"organic frameworks. Chemical Society Reviews, 2017, 46, 239-274.	38.1	206
29	Porous metalâ€"organic frameworks as emerging sorbents for clean air. Nature Reviews Chemistry, 2019, 3, 108-118.	30.2	202
30	Confinement of Iodine Molecules into Triple-Helical Chains within Robust Metalâ€"Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 16289-16296.	13.7	199
31	Unravelling exceptional acetylene and carbon dioxide adsorption within a tetra-amide functionalized metal-organic framework. Nature Communications, 2017, 8, 14085.	12.8	193
32	In situ ligand synthesis and construction of an unprecedented three-dimensional array with silver(i): a new approach to inorganic crystal engineering. Chemical Communications, 1997, , 1675-1676.	4.1	189
33	Proton Conduction in a Phosphonate-Based Metalâ€"Organic Framework Mediated by Intrinsic â€œFree Diffusion inside a Sphereâ€• Journal of the American Chemical Society, 2016, 138, 6352-6355.	13.7	186
34	Non-Natural Eight-Connected Solid-State Materials: A New Coordination Chemistry. Angewandte Chemie - International Edition, 2004, 43, 1851-1854.	13.8	176
35	Adsorption of iodine in metalâ€"organic framework materials. Chemical Society Reviews, 2022, 51, 3243-3262.	38.1	175
36	Reversible coordinative binding and separation of sulfur dioxide in a robust metalâ€"organic framework with open copper sites. Nature Materials, 2019, 18, 1358-1365.	27.5	171

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37	Template self-assembly of polyiodide networks. Chemical Society Reviews, 1998, 27, 195.	38.1	166
38	Control of interpenetrating copper(i) adamantoid networks: synthesis and structure of {[Cu(bpe)2]BF4}n. Chemical Communications, 1997, , 1005-1006.	4.1	164
39	Enhancement of H2 adsorption in Li+-exchanged co-ordination framework materials. Chemical Communications, 2008, , 6108.	4.1	164
40	Lanthanide co-ordination frameworks of 4,4â€²-bipyridine-N,Nâ€²-dioxide. Chemical Communications, 2000, , 1369-1370.	4.1	162
41	Unprecedented Seven- and Eight-Connected Lanthanide Coordination Networks. Angewandte Chemie - International Edition, 2001, 40, 2443-2447.	13.8	162
42	Reversible adsorption of nitrogen dioxide within a robust porous metalâ€“organic framework. Nature Materials, 2018, 17, 691-696.	27.5	162
43	Modulation of the electronic structure and the Ni-Fe distance in heterobimetallic models for the active site in [NiFe]hydrogenase. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18280-18285.	7.1	158
44	Anion Control over Interpenetration and Framework Topology in Coordination Networks Based on Homoleptic Six-Connected Scandium Nodes. Chemistry - A European Journal, 2005, 11, 1384-1391.	3.3	157
45	Highly porous and robust scandium-based metalâ€“organic frameworks for hydrogen storage. Chemical Communications, 2011, 47, 8304.	4.1	156
46	Controlling copper(I) halide framework formation using N-donor bridging ligand symmetry: use of 1,3,5-triazine to construct architectures with threefold symmetry. Journal of the Chemical Society Dalton Transactions, 1999, , 2103-2110.	1.1	152
47	Exceptional Adsorption and Binding of Sulfur Dioxide in a Robust Zirconium-Based Metalâ€“Organic Framework. Journal of the American Chemical Society, 2018, 140, 15564-15567.	13.7	149
48	Schiff-base compartmental macrocyclic complexes. Chemical Communications, 1996, , 457-464.	4.1	147
49	Guest-induced growth of a surface-based supramolecular bilayer. Nature Chemistry, 2011, 3, 74-78.	13.6	142
50	Synthesis of metalâ€“organic frameworks by continuous flow. Green Chemistry, 2014, 16, 3796-3802.	9.0	137
51	Polycatenated copper(I) molecular ladders: a new structural motif in inorganic coordination polymers. Chemical Communications, 1997, , 2027-2028.	4.1	133
52	Structural mimics for the active site of [NiFe] hydrogenase. Coordination Chemistry Reviews, 2001, 219-221, 1055-1074.	18.8	132
53	A mesoporous metalâ€“organic framework constructed from a nanosized C3-symmetric linker and [Cu24(isophthalate)24] cuboctahedra. Chemical Communications, 2011, 47, 9995.	4.1	130
54	Constructing Terbium Co-ordination Polymers of 4,4â€²-Bipyridine-N,Nâ€²-dioxide by Means of Diffusion Solvent Mixtures. Chemistry - A European Journal, 2002, 8, 2026-2033.	3.3	129

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55	Directing two-dimensional molecular crystallization using guest templates. Chemical Communications, 2008, , 2304.	4.1	129
56	Columnar Mesomorphism from Hemi-Disklike Metallomesogens Derived from 2,6-Bis[3â€²,4â€²,5â€²-tri(alkoxy)phenyliminomethyl]pyridines (L): Crystal and Molecular Structures of [M(L)Cl2] (M=Mn, Ni, Zn). Chemistry - A European Journal, 2003, 9, 2484-2501.	3.3	127
57	Polyamine-based anion receptors: Extraction and structural studies. Coordination Chemistry Reviews, 2006, 250, 2987-3003.	18.8	126
58	Macrocyclic complexes of the platinum metals. Pure and Applied Chemistry, 1988, 60, 517-524.	1.9	125
59	Long-range chain orientation in 1-D co-ordination polymers as a function of anions and intermolecular aromatic interactions. Dalton Transactions RSC, 2000, , 4285-4291.	2.3	123
60	Modulating the packing of [Cu24(isophthalate)24] cuboctahedra in a triazole-containing metalâ€“organic polyhedral framework. Chemical Science, 2013, 4, 1731.	7.4	123
61	Irreversible Network Transformation in a Dynamic Porous Host Catalyzed by Sulfur Dioxide. Journal of the American Chemical Society, 2013, 135, 4954-4957.	13.7	123
62	Novel Metalâ^'Organic Frameworks Derived from Group II Metal Cations and Aryldicarboxylate Anionic Ligands. Crystal Growth and Design, 2008, 8, 911-922.	3.0	122
63	Anion exchange in co-ordination polymers: a solid-state or a solvent-mediated process?. CrystEngComm, 2002, 4, 426-431.	2.6	119
64	Analysis of High and Selective Uptake of CO₂ in an Oxamideâ€Containing {Cu₂(OOCR)₄}â€Based Metalâ€“Organic Framework. Chemistry - A European Journal, 2014, 20, 7317-7324.	3.3	119
65	Dynamic Equilibria in Solventâ€Mediated Anion, Cation and Ligand Exchange in Transitionâ€Metal Coordination Polymers: Solidâ€State Transfer or Recrystallisation?. Chemistry - A European Journal, 2009, 15, 8861-8873.	3.3	118
66	Selective CO2 uptake and inverse CO2/C2H2 selectivity in a dynamic bifunctional metalâ€“organic framework. Chemical Science, 2012, 3, 2993.	7.4	117
67	Triggered Ligand Release Coupled to Framework Rearrangement:Â Generating Crystalline Porous Coordination Materials. Inorganic Chemistry, 2006, 45, 8838-8840.	4.0	116
68	Capture of nitrogen dioxide and conversion to nitric acid in a porous metalâ€“organic framework. Nature Chemistry, 2019, 11, 1085-1090.	13.6	116
69	Lanthanide co-ordination frameworks: Opportunities and diversity. Journal of Solid State Chemistry, 2005, 178, 2414-2419.	2.9	115
70	Enhancement of H₂ Adsorption in Coordination Framework Materials by Use of Ligand Curvature. Chemistry - A European Journal, 2009, 15, 4829-4835.	3.3	112
71	Selective Hysteretic Sorption of Light Hydrocarbons in a Flexible Metalâ€“Organic Framework Material. Chemistry of Materials, 2016, 28, 2331-2340.	6.7	112
72	Hydrogen, Methane and Carbon Dioxide Adsorption in Metal-Organic Framework Materials. Topics in Current Chemistry, 2009, 293, 35-76.	4.0	110

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73	Stereochemical and conformational control of metal redox processes: the co-ordination chemistry of the mixed N- and S-donor macrocyclic crowns [18]aneN2S4and Me2[18]aneN2S4. Chemical Society Reviews, 1990, 19, 239-269.	38.1	108
74	Stereoselective Association of Binuclear Metallacycles in Coordination Polymers. Journal of the American Chemical Society, 2003, 125, 6753-6761.	13.7	106
75	Crystal engineering: the effects of Ï€â€“Ï€ interactions in copper(i) and silver(i) complexes of 2,7-diazapyrene. Chemical Communications, 1997, , 1339-1340.	4.1	104
76	Non-Interpenetrated Metalâ€“Organic Frameworks Based on Copper(II) Paddlewheel and Oligoparaxylene-Isophthalate Linkers: Synthesis, Structure, and Gas Adsorption. Journal of the American Chemical Society, 2016, 138, 3371-3381.	13.7	104
77	Structural and electrochemical studies on trithia macrocyclic complexes of palladium. Journal of Organometallic Chemistry, 1987, 323, 261-270.	1.8	103
78	Self-Assembly of Polyanions at a Metal Cation Template: Syntheses and Structures of[{Ag([18]aneS6)}I7]n and[Ag([18]aneS6)]I3. Angewandte Chemie International Edition in English, 1995, 34, 2374-2376.	4.4	102
79	Assembly of a Three-Dimensional Polyknotted Coordination Polymer. Journal of the American Chemical Society, 2000, 122, 4044-4046.	13.7	102
80	A unique example of a 36 tessellated 2-D net based on a tri-nuclear zinc(ii)-1,4-benzenedicarboxylate framework. Chemical Communications, 2005, , 5435.	4.1	100
81	Copper(I) iodide coordination networksâ€“controlling the placement of (CuI)âˆž ladders and chains within two-dimensional sheets. Crystal Engineering, 1999, 2, 181-195.	0.7	99
82	Porous Metalâ€“Organic Polyhedral Frameworks with Optimal Molecular Dynamics and Pore Geometry for Methane Storage. Journal of the American Chemical Society, 2017, 139, 13349-13360.	13.7	99
83	Oxo complexes of ruthenium(VI) and (VII) as organic oxidants. Journal of the Chemical Society Perkin Transactions 1, 1984, , 681-686.	0.9	98
84	Copper(I) halide supramolecular networks linked by N-heterocyclic donor bridging ligands. Pure and Applied Chemistry, 1998, 70, 2351-2357.	1.9	97
85	Parallel interpenetration in novel herringbone sheets formed by Co(II) and Cd(II) complexes with trans-4,4â€²-azobis(pyridine). New Journal of Chemistry, 1999, 23, 573-575.	2.8	97
86	Dioxygen Reduction at Dicobalt Complexes of a Schiff Base Calixpyrrole Ligand. Angewandte Chemie - International Edition, 2007, 46, 584-586.	13.8	95
87	Integration of mesopores and crystal defects in metal-organic frameworks via templated electrosynthesis. Nature Communications, 2019, 10, 4466.	12.8	90
88	Stabilisation of trivalent platinum by structurally accommodating thiamacrocycles. Journal of the Chemical Society Chemical Communications, 1987, , 118-120.	2.0	87
89	Ammonia Storage by Reversible Hostâ€“Guest Site Exchange in a Robust Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2018, 57, 14778-14781.	13.8	86
90	Stabilisation of mononuclear palladium(III). The single crystal X-ray structure of the [Pd(L)2]3+cation (L = 1,4,7-trithiacyclononane). Journal of the Chemical Society Chemical Communications, 1987, , 987-988.	2.0	84

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91	Template Assembly of Metal Aggregates by Imino-Carboxylate Ligands. Angewandte Chemie - International Edition, 1999, 38, 1915-1918.	13.8	84
92	A biporous coordination framework with high H2storage density. Chemical Communications, 2008, , 359-361.	4.1	84
93	Multi-Dimensional Transition-Metal Coordination Polymers of 4,4â€²-Bipyridine-N,Nâ€²-dioxide: 1D Chains and 2D Sheets. Inorganic Chemistry, 2008, 47, 8652-8664.	4.0	84
94	Self-Assembly of Metal-Organic Coordination Polymers Constructed from a Bent Dicarboxylate Ligand: Diversity of Coordination Modes, Structures, and Gas Adsorption. Inorganic Chemistry, 2009, 48, 11067-11078.	4.0	84
95	Pore with Gate: Enhancement of the Isosteric Heat of Adsorption of Dihydrogen via Postsynthetic Cation Exchange in Metalâ˜Organic Frameworks. Inorganic Chemistry, 2011, 50, 9374-9384.	4.0	84
96	Discrete molecular and extended polymeric copper(I) halide complexes of tetradentate thioether macrocycles. Dalton Transactions RSC, 2001, , 456-465.	2.3	83
97	Control of Copper(I) Iodide Architectures by Ligand Design:Â Angular versus Linear Bridging Ligands. Inorganic Chemistry, 2006, 45, 6179-6187.	4.0	82
98	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34, .	21.0	82
99	Controlled Assembly of Dinuclear Metallacycles into a Three-Dimensional Helical Array. Angewandte Chemie - International Edition, 2000, 39, 2317-2320.	13.8	81
100	Structures and H₂ Adsorption Properties of Porous Scandium Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2010, 16, 13671-13679.	3.3	77
101	Direct photo-oxidation of methane to methanol over a mono-iron hydroxyl site. Nature Materials, 2022, 21, 932-938.	27.5	77
102	Unprecedented bilayer topologies in 5- and 6-connected framework polymers. Chemical Communications, 2004, , 1792-1793.	4.1	76
103	Two- and three-dimensional CuSCN co-ordination networks including new CuSCN structural motifs. Journal of the Chemical Society Dalton Transactions, 1999, , 2813-2817.	1.1	75
104	Macrocyclic diiminodipyrromethane complexes: structural analogues of Pac-Man porphyrins. Chemical Communications, 2003, , 2508-2509.	4.1	75
105	Modulating supramolecular binding of carbon dioxide in a redox-active porous metal-organic framework. Nature Communications, 2017, 8, 14212.	12.8	75
106	Iodine Adsorption in a Redox-Active Metalâ€“Organic Framework: Electrical Conductivity Induced by Hostâ˜Guest Charge-Transfer. Inorganic Chemistry, 2019, 58, 14145-14150.	4.0	74
107	Modifying Cage Structures in Metalâ€“Organic Polyhedral Frameworks for H₂ Storage. Chemistry - A European Journal, 2011, 17, 11162-11170.	3.3	73
108	Tailoring porosity and rotational dynamics in a series of octacarboxylate metal-organic frameworks. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3056-3061.	7.1	73

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109	Quantitative Electro-Reduction of CO₂ to Liquid Fuel over Electro-Synthesized Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 17384-17392.	13.7	73
110	Bis(1,4,7-trithiacyclononane)gold Dication: A Paramagnetic, Mononuclear AuII Complex. Angewandte Chemie International Edition in English, 1990, 29, 197-198.	4.4	72
111	Supramolecular networks stabilise and functionalise black phosphorus. Nature Communications, 2017, 8, 1385.	12.8	72
112	Metalâ€“organic frameworks in seconds via selective microwave heating. Journal of Materials Chemistry A, 2017, 5, 7333-7338.	10.3	71
113	Enhancement of CO₂ Adsorption and Catalytic Properties by Fe-Doping of [Ga₂(OH)₂(L)] (H₄L = Biphenyl-3,3â€²,5,5â€²-tetracarboxylic Acid), MFM-300(Ga₂). Inorganic Chemistry, 2016, 55, 1076-1088.	4.0	70
114	Cationic Assembly of Metal Complex Aggregates:Â Structural Diversity, Solution Stability, and Magnetic Properties. Journal of the American Chemical Society, 2003, 125, 9476-9483.	13.7	69
115	Engineering of co-ordination polymers of trans-4,4â€²-azobis(pyridine) and trans-1,2-bis(pyridin-4-yl)ethene: a range of interpenetrated network motifs. Dalton Transactions RSC, 2000, , 3261-3268.	2.3	68
116	Hirshfeld Surface Investigation of Structure-Directing Interactions within Dipicolinic Acid Derivatives. Crystal Growth and Design, 2015, 15, 1697-1706.	3.0	68
117	Modulating proton diffusion and conductivity in metalâ€“organic frameworks by incorporation of accessible free carboxylic acid groups. Chemical Science, 2019, 10, 1492-1499.	7.4	68
118	Can 4,4â€²-bipyridine N,Nâ€™-dioxide play the same important role as 4,4â€²-bipyridine in the construction of metal coordination networks and crystal engineering?. Chemical Communications, 2000, , 2273-2274.	4.1	67
119	A Novel BismuthâEBased Metalâ€“Organic Framework for High Volumetric Methane and Carbon Dioxide Adsorption. Chemistry - A European Journal, 2014, 20, 8024-8029.	3.3	67
120	High Ammonia Adsorption in MFM-300 Materials: Dynamics and Charge Transfer in Hostâ€“Guest Binding. Journal of the American Chemical Society, 2021, 143, 3153-3161.	13.7	67
121	Silver thioether chemistry: Synthesis, X-ray crystal structure and redox properties of [Ag([18]aneS6)]+ ([18]aneS6 = 1,4,7,10,13,16-hexathiacyclooctadecane). Polyhedron, 1989, 8, 513-518.	2.2	66
122	Atomically Dispersed Copper Sites in a Metalâ€“Organic Framework for Reduction of Nitrogen Dioxide. Journal of the American Chemical Society, 2021, 143, 10977-10985.	13.7	66
123	Extended networks formed by coordination polymers in the solid state. Current Opinion in Solid State and Materials Science, 1998, 3, 419-424.	11.5	65
124	Simultaneous adsorption of Cu(II) and SO42â^' ions by a novel silica gel functionalized with a ditopic zwitterionic Schiff base ligand. Chemical Engineering Journal, 2014, 250, 55-65.	12.7	65
125	Palladium(II) and Platinum(II) Complexes of 1,4,7,10,13,16-Hexathiacyclooctadecane. Angewandte Chemie International Edition in English, 1986, 25, 274-276.	4.4	64
126	OuterâEsphere Coordination Chemistry: Selective Extraction and Transport of the [PtCl₆]^{2â^'} Anion. Angewandte Chemie - International Edition, 2008, 47, 1745-1748.	13.8	64

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127	Chemistry of mixed nitrogen- and sulfur-donor tridentate macrocycles. Coordination Chemistry Reviews, 1998, 174, 417-468.	18.8	63
128	Rational Synthesis and Investigation of Porous Metalâ€“Organic Framework Materials from a Preorganized Heterometallic Carboxylate Building Block. Inorganic Chemistry, 2017, 56, 1599-1608.	4.0	63
129	Discovery and evaluation of highly active imidotitanium ethylene polymerisation catalysts using high throughput catalyst screening. Chemical Communications, 2004, , 434-435.	4.1	62
130	Post-synthetic modulation of the charge distribution in a metalâ€“organic framework for optimal binding of carbon dioxide and sulfur dioxide. Chemical Science, 2019, 10, 1472-1482.	7.4	62
131	Electro-reduction of carbon dioxide at low over-potential at a metalâ€“organic framework decorated cathode. Nature Communications, 2020, 11, 5464.	12.8	62
132	High-Nuclearity Metalâ€“Organic Nanospheres: A Cd₆₆ Ball. Journal of the American Chemical Society, 2012, 134, 55-58.	13.7	61
133	Refinement of pore size at sub-angstrom precision in robust metalâ€“organic frameworks for separation of xylenes. Nature Communications, 2020, 11, 4280.	12.8	61
134	Design and Synthesis of Binucleating Macrocyclic Clefts Derived from Schiff-Base Calixpyrroles. Chemistry - A European Journal, 2007, 13, 3707-3723.	3.3	60
135	Broken symmetry and the variation of critical properties in the phase behaviour of supramolecular rhombus tilings. Nature Chemistry, 2012, 4, 112-117.	13.6	60
136	Unusual and Tunable Negative Linear Compressibility in the Metalâ€“Organic Framework MFM-133(M) (M) Tj ETQq0 0 0 rgBT /Overlock	13.7	60
137	Hydrogen-bonding interactions between linear bipyridinium cations and nitrate anions. CrystEngComm, 2002, 4, 483-495.	2.6	58
138	Selective Extraction and Transport of the [PtCl₆]^{2â^'} Anion through Outerâ€Sphere Coordination Chemistry. Chemistry - A European Journal, 2009, 15, 4836-4850.	3.3	58
139	High pressure co-ordination chemistry of a palladium thioether complex: pressure versus electrons. Chemical Communications, 2006, , 4081-4083.	4.1	56
140	Polynuclear nickel(II) complexes of N4O2- and N4S2-compartmental macrocycles: the structures of a Ni4O4cubane cluster and the binuclear nickel(II) complex of a benzenethiolate macrocycle. Journal of the Chemical Society Chemical Communications, 1993, , 1662-1665.	2.0	55
141	Enhancement of Proton Conductivity in Nonporous Metalâ€“Organic Frameworks: The Role of Framework Proton Density and Humidity. Chemistry of Materials, 2018, 30, 7593-7602.	6.7	55
142	An improved preparation of 4-ethynylpyridine and its application to the synthesis of linear bipyridyl ligands. Tetrahedron Letters, 1999, 40, 5413-5416.	1.4	54
143	Silver alkoxide and amino N-heterocyclic carbenes; syntheses and crystal structures. Journal of Organometallic Chemistry, 2005, 690, 5710-5719.	1.8	54
144	Observation of Binding and Rotation of Methane and Hydrogen within a Functional Metalâ€“Organic Framework. Journal of the American Chemical Society, 2016, 138, 9119-9127.	13.7	54

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145	A new CuI(SCN) structural motif: synthesis of an uncharged three-dimensional co-ordination network. Journal of the Chemical Society Dalton Transactions, 1998, , 1533-1534.	1.1	53
146	Solvent Control of Supramolecular Architectures Derived from 4,4â€²-Bipyridyl-Bridged Copper(II) Dipicolinate Complexes. Crystal Growth and Design, 2009, 9, 4685-4699.	3.0	53
147	Near-critical water, a cleaner solvent for the synthesis of a metalâ€“organic framework. Green Chemistry, 2012, 14, 117-122.	9.0	53
148	Controlled Assembly of Silver(I)â€Pyridylfullerene Networks. Angewandte Chemie - International Edition, 2007, 46, 8013-8016.	13.8	52
149	Reversible MOF-Based Sensors for the Electrical Detection of Iodine Gas. ACS Applied Materials & Interfaces, 2019, 11, 27982-27988.	8.0	52
150	Purification of Propylene and Ethylene by a Robust Metalâ€“Organic Framework Mediated by Hostâ€“Guest Interactions. Angewandte Chemie - International Edition, 2021, 60, 15541-15547.	13.8	51
151	Câ€“H Activation of co-ordinated crowns thioethers: deprotonation and ring-opening of [M([9]aneS3)2]3+(M = Co, Rh, Ir). Crystal structure of [Rh(H2Cî€†CHS(CH2)2S(CH2)2S)([9]aneS3)](PF6)2([9]aneS3= 1,4,7-trithiacyclononane). Journal of the Chemical Society Chemical Communications, 1989, , 1600-1602.	2.0	50
152	A novel synthetic strategy for hexanuclear supramolecular architecturesElectronic supplementary information (ESI) available: synthesis and single crystal X-ray diffraction. See http://www.rsc.org/suppdata/cc/b3/b300605k/. Chemical Communications, 2003, , 682-683.	4.1	50
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