Neil R. Champness

List of Publications by Year
in descending order

267	24,160	9428 76	8878 150
papers	citations	h-index	g-index

268	268	268	18144
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inorganic crystal engineering using self-assembly of tailored building-blocks. Coordination Chemistry Reviews, 1999, 183, 117-138.	9.5	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.	9.5	1,129
3	Controlling molecular deposition and layer structure with supramolecular surface assemblies. Nature, 2003, 424, 1029-1031.	13.7	1,076
4	Terminology of metalâ€“organic frameworks and coordination polymers (IUPAC Recommendations) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	6.9	984
5	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.	6.6	723
6	High H2 Adsorption by Coordination-Framework Materials. Angewandte Chemie - International Edition, 2006, 45, 7358-7364.	7.2	692
7	Recent advances in crystal engineering. CrystEngComm, 2010, 12, 22-43.	1.3	692
8	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.	7.6	529
9	Anion Control in Bipyridylsilver(I) Networks: A Helical Polymeric Array. Angewandte Chemie International Edition in English, 1997, 36, 2327-2329.	4.4	473
10	Coordination polymers, metalâ€“organic frameworks and the need for terminology guidelines. CrystEngComm, 2012, 14, 3001.	1.3	464
11	Structural diversity of building-blocks in coordination framework synthesisâ€”combining M(NO3)2 junctions and bipyridyl ligands. Coordination Chemistry Reviews, 2003, 246, 145-168.	9.5	463
12	OLEX: new software for visualization and analysis of extended crystal structures. Journal of Applied Crystallography, 2003, 36, 1283-1284.	1.9	447
13	A partially interpenetrated metalâ€“organic framework for selective hysteretic sorption ofÂcarbon dioxide. Nature Materials, 2012, 11, 710-716.	13.3	430
14	New trends in crystal engineering. CrystEngComm, 2005, 7, 1.	1.3	412
15	Cation-induced kinetic trapping and enhanced hydrogen adsorption in a modulated anionic metalâ€“organic framework. Nature Chemistry, 2009, 1, 487-493.	6.6	375
16	Exceptional Thermal Stability in a Supramolecular Organic Framework: Porosity and Gas Storage. Journal of the American Chemical Society, 2010, 132, 14457-14469.	6.6	369
17	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.	1.9	329
18	Exceptionally high H2 storage by a metalâ€“organic polyhedral framework. Chemical Communications, 2009, , 1025.	2.2	316

#	Article	IF	Citations
19	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.	6.6	296
20	Metalâ^'Organic Polyhedral Frameworks: High H₂ Adsorption Capacities and Neutron Powder Diffraction Studies. Journal of the American Chemical Society, 2010, 132, 4092-4094.	6.6	281
21	Hydrogen storage in metalâ€“organic frameworks. CrystEngComm, 2007, 9, 438-448.	1.3	271
22	Lanthanum Coordination Networks Based on Unusual Five-Connected Topologies. Journal of the American Chemical Society, 2001, 123, 3401-3402.	6.6	230
23	Random Tiling and Topological Defects in a Two-Dimensional Molecular Network. Science, 2008, 322, 1077-1081.	6.0	224
24	High capacity gas storage by a 4,8-connected metalâ€“organic polyhedral framework. Chemical Communications, 2011, 47, 4487.	2.2	220
25	Twelve-connected porous metalâ€“organic frameworks with high H2adsorption. Chemical Communications, 2007, , 840-842.	2.2	219
26	Frontiers of supramolecular chemistry at solid surfaces. Chemical Society Reviews, 2017, 46, 2520-2542.	18.7	196
27	Multi-modal bridging ligands; effects of ligand functionality, anion and crystallisation solvent in silver(I) co-ordination polymersâ€Šâ€. Dalton Transactions RSC, 2000, , 3811-3819.	2.3	184
28	Templating molecular adsorption using a covalent organic framework. Chemical Communications, 2010, 46, 7157.	2.2	183
29	Non-Natural Eight-Connected Solid-State Materials: A New Coordination Chemistry. Angewandte Chemie - International Edition, 2004, 43, 1851-1854.	7.2	176
30	Coordination frameworksâ€”where next?. Dalton Transactions, 2006, , 877-880.	1.6	167
31	Enhancement of H2 adsorption in Li+-exchanged co-ordination framework materials. Chemical Communications, 2008, , 6108.	2.2	164
32	Assembly and Processing of Hydrogen Bond Induced Supramolecular Nanostructures. Nano Letters, 2003, 3, 9-12.	4.5	162
33	Surface-Based Supramolecular Chemistry Using Hydrogen Bonds. Accounts of Chemical Research, 2014, 47, 3417-3427.	7.6	161
34	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.	1.7	157
35	Highly porous and robust scandium-based metalâ€“organic frameworks for hydrogen storage. Chemical Communications, 2011, 47, 8304.	2.2	156
36	Guest-induced growth of a surface-based supramolecular bilayer. Nature Chemistry, 2011, 3, 74-78.	6.6	142

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37	Photoreactivity examined through incorporation in metalâ˜organic frameworks. Nature Chemistry, 2010, 2, 688-694.	6.6	137
38	Bimolecular Networks and Supramolecular Traps on Au(111). Journal of Physical Chemistry B, 2006, 110, 12539-12542.	1.2	136
39	Coordination chemistry of stibine and bismuthine ligands. Coordination Chemistry Reviews, 1994, 133, 115-217.	9.5	133
40	Mapping the force field of a hydrogen-bonded assembly. Nature Communications, 2014, 5, 3931.	5.8	133
41	Structural isomerism in CuSCN coordination polymers. Chemical Communications, 2002, , 1640-1641.	2.2	130
42	A mesoporous metalâ€“organic framework constructed from a nanosized C3-symmetric linker and [Cu24(isophthalate)24] cuboctahedra. Chemical Communications, 2011, 47, 9995.	2.2	130
43	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.	1.7	129
44	Directing two-dimensional molecular crystallization using guest templates. Chemical Communications, 2008, , 2304.	2.2	129
45	Emerging applications of metalâ€“organic frameworks. CrystEngComm, 2016, 18, 6532-6542.	1.3	125
46	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
47	Anion exchange in co-ordination polymers: a solid-state or a solvent-mediated process?. CrystEngComm, 2002, 4, 426-431.	1.3	119
48	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.	1.7	118
49	Selective CO2 uptake and inverse CO2/C2H2 selectivity in a dynamic bifunctional metalâ€“organic framework. Chemical Science, 2012, 3, 2993.	3.7	117
50	Triggered Ligand Release Coupled to Framework Rearrangement:Â Generating Crystalline Porous Coordination Materials. Inorganic Chemistry, 2006, 45, 8838-8840.	1.9	116
51	Lanthanide co-ordination frameworks: Opportunities and diversity. Journal of Solid State Chemistry, 2005, 178, 2414-2419.	1.4	115
52	Surface self-assembly of the cyanuric acidâ€“melamine hydrogen bonded network. Chemical Communications, 2006, , 538-540.	2.2	114
53	Enhancement of H₂ Adsorption in Coordination Framework Materials by Use of Ligand Curvature. Chemistry - A European Journal, 2009, 15, 4829-4835.	1.7	112
54	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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55	Supramolecular Assemblies Formed on an Epitaxial Graphene Superstructure. Angewandte Chemie - International Edition, 2010, 49, 1794-1799.	7.2	108
56	Two-dimensional supramolecular chemistry on surfaces. Chemical Science, 2011, 2, 1440.	3.7	108
57	Stereoselective Association of Binuclear Metallacycles in Coordination Polymers. Journal of the American Chemical Society, 2003, 125, 6753-6761.	6.6	106
58	Self-assembled aggregates formed by single-molecule magnets on a gold surface. Nature Communications, 2010, 1, 75.	5.8	105
59	Assembly of a Three-Dimensional Polyknotted Coordination Polymer. Journal of the American Chemical Society, 2000, 122, 4044-4046.	6.6	102
60	Square, Hexagonal, and Row Phases of PTCDA and PTCDI on Agâ˜Si(111) Ã— R30Â°. Journal of Physical Chemistry B, 2005, 109, 12167-12174.	1.2	98
61	Copper(I) halide supramolecular networks linked by N-heterocyclic donor bridging ligands. Pure and Applied Chemistry, 1998, 70, 2351-2357.	0.9	97
62	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.	1.4	97
63	The future of metalâ€“organic frameworks. Dalton Transactions, 2011, 40, 10311.	1.6	94
64	Water Superstructures within Organic Arrays; Hydrogen-Bonded Water Sheets, Chains and Clusters. Chemistry - A European Journal, 2005, 11, 4643-4654.	1.7	93
65	Using multimodal ligands to influence network topology in silver(I) coordination polymers. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4905-4910.	3.3	87
66	A biporous coordination framework with high H2storage density. Chemical Communications, 2008, , 359-361.	2.2	84
67	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.	1.9	84
68	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.	1.9	84
69	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.	1.9	84
70	A periodic table of metal-organic frameworks. Coordination Chemistry Reviews, 2020, 414, 213295.	9.5	84
71	Discrete molecular and extended polymeric copper(I) halide complexes of tetradentate thioether macrocycles. Dalton Transactions RSC, 2001, , 456-465.	2.3	83
72	Control of Copper(I) Iodide Architectures by Ligand Design:Â Angular versus Linear Bridging Ligands. Inorganic Chemistry, 2006, 45, 6179-6187.	1.9	82

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73	Self-Assembly of Ribbons and Frameworks Containing Large Channels Based upon Methylene-Bridged Dithio-, Diseleno-, and Ditelluroethers. Inorganic Chemistry, 1996, 35, 4432-4438.	1.9	80
74	Honeycomb Networks and Chiral Superstructures Formed by Cyanuric Acid and Melamine on Au(111). Journal of Physical Chemistry C, 2007, 111, 886-893.	1.5	79
75	Structures and H₂ Adsorption Properties of Porous Scandium Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2010, 16, 13671-13679.	1.7	77
76	Unprecedented bilayer topologies in 5- and 6-connected framework polymers. Chemical Communications, 2004, , 1792-1793.	2.2	76
77	Xâ€ray Crystallography in Openâ€Framework Materials. Angewandte Chemie - International Edition, 2015, 54, 12860-12867.	7.2	75
78	2021 roadmap on lithium sulfur batteries. JPhys Energy, 2021, 3, 031501.	2.3	74
79	Self-Assembly of a Pyridine-Terminated Thiol Monolayer on Au(111). Langmuir, 2009, 25, 959-967.	1.6	73
80	Modifying Cage Structures in Metalâ€“Organic Polyhedral Frameworks for H₂ Storage. Chemistry - A European Journal, 2011, 17, 11162-11170.	1.7	73
81	Supramolecular networks stabilise and functionalise black phosphorus. Nature Communications, 2017, 8, 1385.	5.8	72
82	Metalâ€“organic frameworks in seconds via selective microwave heating. Journal of Materials Chemistry A, 2017, 5, 7333-7338.	5.2	71
83	Selenoether Macrocyclic Chemistry: Syntheses, NMR Studies, Redox Properties, and Single-Crystal Structures of [M([16]aneSe4)](PF6)2.cntdot.2MeCN (M = Pd, Pt; [16]aneSe4 =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 337 Td	1.6	70
84	Growth Induced Reordering of Fullerene Clusters Trapped in a Two-Dimensional Supramolecular Network. Langmuir, 2005, 21, 2038-2041.	1.6	69
85	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
86	Hierarchical Organisation on a Twoâ€Dimensional Supramolecular Network. ChemPhysChem, 2007, 8, 2177-2181.	1.0	66
87	Role of Interaction Anisotropy in the Formation and Stability of Molecular Templates. Physical Review Letters, 2008, 100, 156101.	2.9	66
88	Extended networks formed by coordination polymers in the solid state. Current Opinion in Solid State and Materials Science, 1998, 3, 419-424.	5.6	65
89	Metalâ€Organic Frameworks and Metalâ€Organic Cages â€“ A Perspective. ChemPlusChem, 2020, 85, 1842-1856.	1.3	65
90	Chemistry of mixed nitrogen- and sulfur-donor tridentate macrocycles. Coordination Chemistry Reviews, 1998, 174, 417-468.	9.5	63

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91	Dimerization of Tri(4-bromophenyl)benzene by Arylâ^'Aryl Coupling from Solution on a Gold Surface. Journal of the American Chemical Society, 2011, 133, 4220-4223.	6.6	63
92	Homoleptic silver(I) complexes with dithio-, diseleno- and ditelluro-ethers: synthesis, structures and multinuclear nuclear magnetic resonance studies. Journal of the Chemical Society Dalton Transactions, 1995, , 3439.	1.1	62
93	High-Nuclearity Metalâ€"Organic Nanospheres: A Cd₆₆ Ball. Journal of the American Chemical Society, 2012, 134, 55-58.	6.6	61
94	Broken symmetry and the variation of critical properties in the phase behaviour of supramolecular rhombus tilings. Nature Chemistry, 2012, 4, 112-117.	6.6	60
95	Synthesis and structural characterisation of cadmium(II) and zinc(II) coordination polymers with an angular dipyridyl bridging ligand: parallel interpenetration of two-dimensional sheets with 4.82 topologyâ€Šâ€. Dalton Transactions RSC, 2001, , 567-573.	2.3	59
96	Enhanced Synthesis of Metalâ€Organic Frameworks on the Surface of Electrospun Cellulose Nanofibers. Advanced Engineering Materials, 2015, 17, 1282-1286.	1.6	59
97	Isolating reactive metal-based species in Metalâ€"Organic Frameworks â€" viable strategies and opportunities. Chemical Science, 2020, 11, 4031-4050.	3.7	59
98	Homoleptic Copper(I) and Silver(I) Complexes witho-Phenylene-Backboned Bis(thioethers), Bis(selenoethers), and Bis(telluroethers):Â Synthesis, Multinuclear NMR Studies, and Crystal Structures of [Cu{o-C6H4(SeMe)2}2]PF6, [Cu{o-C6H4(TeMe)2}2]PF6, and [Agn{Î¼-o-C6H4(SeMe)2}n{o-C6H4(SeMe)2}n][BF4]nÂ·nCH2Cl2. Inorganic Chemistry, 1996, 35, 1820-1824.	1.9	58
99	Sawhorse connections in a Ag(I)-nitrite coordination network: {[Ag(pyrazine)]NO2}â^ž. New Journal of Chemistry, 1999, 23, 13-15.	1.4	58
100	Functionalized Supramolecular Nanoporous Arrays for Surface Templating. Chemistry - A European Journal, 2008, 14, 7600-7607.	1.7	58
101	Hydrogen-Bonded PTCDAâ^'Melamine Networks and Mixed Phases. Journal of Physical Chemistry B, 2006, 110, 6110-6114.	1.2	56
102	Molecular imaging of polyimide formation. Physical Chemistry Chemical Physics, 2009, 11, 1209.	1.3	55
103	An improved preparation of 4-ethynylpyridine and its application to the synthesis of linear bipyridyl ligands. Tetrahedron Letters, 1999, 40, 5413-5416.	0.7	54
104	Toward Controlled Spacing in One-Dimensional Molecular Chains:Â Alkyl-Chain-Functionalized Fullerenes in Carbon Nanotubes. Journal of the American Chemical Society, 2007, 129, 8609-8614.	6.6	51
105	Unique structural features in silver(I) dithioether complexes: the single-crystal structures of [Agn(PhSCH2CH2CH2SPh)2n](BF4)nÂ·0.5nH2O and [Agn(MeSCH2CH2CH2SMe)n](BF4)n. Journal of the Chemical Society Chemical Communications, 1995, , 1277-1278.	2.0	50
106	Silver(I) Coordination Polymers Using Thioether Macrocycle Building Blocks. Inorganic Chemistry, 2000, 39, 1035-1038.	1.9	50
107	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.	2.2	50
108	Electrospray Deposition of C60 on a Hydrogen-Bonded Supramolecular Network. Journal of Physical Chemistry C, 2008, 112, 7706-7709.	1.5	48

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109	Pore with gate: modulating hydrogen storage in metal-organic framework materials via cation exchange. Faraday Discussions, 2011, 151, 19.	1.6	48
110	Experimental and theoretical identification of adenine monolayers on Ag-terminated Si(111). Physical Review B, 2006, 73, .	1.1	46
111	Electrodeposition of Palladium onto a Pyridine-Terminated Self-Assembled Monolayer. Langmuir, 2011, 27, 2567-2574.	1.6	46
112	Effects of pore modification on the templating of guest molecules in a 2D honeycomb network. Chemical Science, 2012, 3, 84-92.	3.7	46
113	A coordination polymer supramolecular isomer formed from a single building block: an unexpected porphyrin ribbon constructed from zinc(tetra(4-pyridyl)porphyrin). CrystEngComm, 2005, 7, 621.	1.3	44
114	Coordination polymers and metalâ€“organic frameworks: materials by design. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160032.	1.6	44
115	Protecting-Group-Free Site-Selective Reactions in a Metalâ€“Organic Framework Reaction Vessel. Journal of the American Chemical Society, 2018, 140, 6416-6425.	6.6	44
116	Structural Diversity in Metalâ^'Organic Frameworks Derived from Binuclear Alkoxo-Bridged Copper(II) Nodes and Pyridyl Linkers. Crystal Growth and Design, 2008, 8, 964-975.	1.4	41
117	The role of 1,2,4,5-tetrazine rings in Ï€â€“Ï€ stacking interactions. CrystEngComm, 2003, 5, 82-86.	1.3	40
118	van der Waals-Induced Chromatic Shifts in Hydrogen-Bonded Two-Dimensional Porphyrin Arrays on Boron Nitride. ACS Nano, 2015, 9, 10347-10355.	7.3	40
119	Using microscopic techniques to reveal the mechanism of anion exchange in crystalline co-ordination polymers. Journal of Microscopy, 2004, 214, 261-271.	0.8	39
120	In situ synthesis of 5-substituted-tetrazoles and metallosupramolecular co-ordination polymers. CrystEngComm, 2009, 11, 67-81.	1.3	39
121	Building Multistate Redox-Active Architectures Using Metal-Complex Functionalized Perylene Bis-imides. Inorganic Chemistry, 2009, 48, 10264-10274.	1.9	39
122	Tailoring pores for guest entrapment in a unimolecular surface self-assembled hydrogen bonded network. Chemical Communications, 2010, 46, 2775.	2.2	39
123	Thymine functionalised porphyrins, synthesis and heteromolecular surface-based self-assembly. Chemical Science, 2015, 6, 1562-1569.	3.7	39
124	Helical templating of polyiodide networks at a binuclear metallo complexElectronic supplementary information (ESI) available: synthetic details, crystal data (CCDC 198624 and 198625 in CIF format) and views of the Câ€“Hâ‹¯I and Hâ‹¯I interactions between I62â€“ and I3â€“ and the cationic component in 2. See http://www.rsc.org/suppdata/cc/b2/b211743f/.. Chemical Communications, 2003, , 312-313.	2.2	37
125	Synthesis and characterisation of BODIPY radical anions. Chemical Communications, 2012, 48, 1751.	2.2	37
126	Building with molecules. Nature Nanotechnology, 2007, 2, 671-672.	15.6	36

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127	Multiâ€Electronâ€Acceptor Dyad and Triad Systems Based on Perylene Bisimides and Fullerenes. Chemistry - A European Journal, 2011, 17, 3759-3767.	1.7	36
128	Mixed phosphathia macrocyclic chemistry: synthesis and characterisation of [M(Ph2[14]ane) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707	1.1	35
129	A design strategy for four-connected coordination frameworks. Chemical Communications, 2004, , 642-643.	2.2	35
130	Photophysics and electrochemistry of a platinum-acetylide disubstituted perylenediimide. Dalton Transactions, 2014, 43, 85-94.	1.6	35
131	A Piggyback Ride for Transition Metals: Encapsulation of Exohedral Metallofullerenes in Carbon Nanotubes. Chemistry - A European Journal, 2011, 17, 668-674.	1.7	34
132	Physisorption Controls the Conformation and Density of States of an Adsorbed Porphyrin. Journal of Physical Chemistry C, 2015, 119, 27982-27994.	1.5	34
133	Synthesis, spectroscopic and structural characterization of PdII and PtII complexes of the cyclic diselenoether 1,5-diselenacyclooctane, [8]aneSe2. Polyhedron, 1995, 14, 2753-2758.	1.0	33
134	Coordination Polymers: From Metalâ€“Organic Frameworks to Spheres. Angewandte Chemie - International Edition, 2009, 48, 2274-2275.	7.2	33
135	Ullmann Coupling Reactions on Ag(111) and Ag(110); Substrate Influence on the Formation of Covalently Coupled Products and Intermediate Metal-Organic Structures. Scientific Reports, 2017, 7, 14541.	1.6	33
136	Bis-morpholine-Substituted Perylene Bisimides: Impact of Isomeric Arrangement on Electrochemical and Spectroelectrochemical Properties. Journal of Organic Chemistry, 2008, 73, 8808-8814.	1.7	32
137	Crystallized creations in 2D. Nature Chemistry, 2014, 6, 757-759.	6.6	31
138	Understanding the electromagnetic interaction of metal organic framework reactants in aqueous solution at microwave frequencies. Physical Chemistry Chemical Physics, 2016, 18, 5419-5431.	1.3	31
139	Supramolecular interactions in 4,4â€²-Bipyridine cobalt(II) nitrate networks. Journal of Supramolecular Chemistry, 2002, 2, 163-174.	0.4	30
140	Thionated naphthalene diimides: tuneable chromophores for applications in photoactive dyads. Physical Chemistry Chemical Physics, 2018, 20, 752-764.	1.3	30
141	Intramolecular bonds resolved on a semiconductor surface. Physical Review B, 2014, 90, .	1.1	29
142	Hard/Soft Interactions in Early Transition Metal Thioether Macrocyclic Chemistry: Synthesis and Single Crystal Structure of cis-[CrCl2([14]aneS4)]PF6 ([14]aneS4 = 1,4,8,11-tetrathiacyclotetradecane). Inorganic Chemistry, 1995, 34, 396-398.	1.9	28
143	Construction of the first cross-linked double helical polyiodide. Chemical Communications, 2003, , 1488-1489.	2.2	28
144	A Perylene Diimide Rotaxane: Synthesis, Structure and Electrochemically Driven Deâ€Threading. Chemistry - A European Journal, 2011, 17, 14746-14751.	1.7	28

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145	Modification of coordination networks through a photoinduced charge transfer process. Chemical Science, 2014, 5, 539-544.	3.7	28
146	Synthesis and characterisation of rylene diimide dimers using molecular handcuffs. Chemical Science, 2019, 10, 3723-3732.	3.7	28
147	Dianhydride-Amine Hydrogen Bonded Perylene Tetracarboxylic Dianhydride and Tetraaminobenzene Rows. Journal of Physical Chemistry B, 2006, 110, 12207-12210.	1.2	27
148	Photochemistry in a 3D Metalâ€“Organic Framework (MOF): Monitoring Intermediates and Reactivity of the fac-to-mer Photoisomerization of Re(diimine)(CO)₃Cl Incorporated in a MOF. Inorganic Chemistry, 2014, 53, 2606-2612.	1.9	27
149	The chemistry of phosphines in constrained, well-defined microenvironments. Chemical Society Reviews, 2021, 50, 4411-4431.	18.7	27
150	Gas Transport Properties of the Metalâ€“Organic Framework (MOF)-Assisted Polymer of Intrinsic Microporosity (PIM-1) Thin-Film Composite Membranes. ACS Sustainable Chemistry and Engineering, 2021, 9, 684-694.	3.2	27
151	Polymorphism in hydrogen bonded frameworks; cyanuric acidâ€“bis(4-pyridyl)ethene adducts. CrystEngComm, 2003, 5, 134.	1.3	26
152	Increasing nuclearity of secondary building units in porous cobalt(ii) metalâ€“organic frameworks: Variation in structure and H2 adsorption. Dalton Transactions, 2011, 40, 12342.	1.6	26
153	On-surface chemical reactions characterised by ultra-high resolution scanning probe microscopy. Chemical Society Reviews, 2020, 49, 4189-4202.	18.7	26
154	Structural diversity in two-dimensional coordination polymers constructed from simple building-blocks; a rare example of coordination polymer polymorphs structurally characterised from multiple crystals. Dalton Transactions, 2005, , 3852.	1.6	25
155	Mechanically interlocked molecular handcuffs. Chemical Science, 2022, 13, 3915-3941.	3.7	25
156	Single molecule magnets on a gold surface:in situelectrospray deposition, x-ray absorption and photoemission. Nanotechnology, 2011, 22, 075704.	1.3	24
157	Thionated perylene diimides with intense absorbance in the near-IR. Chemical Communications, 2016, 52, 2099-2102.	2.2	24
158	Ruthenium(II) and (III) complexes of triphenylstibine: a reinvestigation and the X-ray structure of trans-RuCl2(SbPh3)4. Inorganica Chimica Acta, 1993, 208, 189-194.	1.2	23
159	Synthesis of pyridazinyl ligands for multimetallic complexes. New Journal of Chemistry, 2006, 30, 1498-1508.	1.4	23
160	Bimolecular porous supramolecular networks deposited from solution on layered materials: graphite, boron nitride and molybdenum disulphide. Chemical Communications, 2014, 50, 8882-8885.	2.2	23
161	Synthesis of hydrophobic MIL-53(Al) nanoparticles in low molecular weight alcohols: systematic investigation of solvent effects. CrystEngComm, 2018, 20, 4666-4675.	1.3	23
162	Silver(i)â€“thioether coordination polymers constructed using asymmetric diketonate anions. CrystEngComm, 2002, 4, 88-92.	1.3	22

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