

Brian Moulton

List of Publications by Year in descending order

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46
papers

11,729
citations

147801

31
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214800

47
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all docs

50
docs citations

50
times ranked

7930
citing authors

#	ARTICLE	IF	CITATIONS
1	From Molecules to Crystal Engineering: Supramolecular Isomerism and Polymorphism in Network Solids. <i>Chemical Reviews</i> , 2001, 101, 1629-1658.	47.7	6,228
2	Polymorphs, Salts, and Cocrystals: What's in a Name?. <i>Crystal Growth and Design</i> , 2012, 12, 2147-2152.	3.0	767
3	Crystal Engineering of Novel Cocrystals of a Triazole Drug with 1,4-Dicarboxylic Acids. <i>Journal of the American Chemical Society</i> , 2003, 125, 8456-8457.	13.7	619
4	Crystal Engineering of the Composition of Pharmaceutical Phases: Multiple-Component Crystalline Solids Involving Carbamazepine. <i>Crystal Growth and Design</i> , 2003, 3, 909-919.	3.0	493
5	Self-Assembly of Nanometer-Scale Secondary Building Units into an Undulating Two-Dimensional Network with Two Types of Hydrophobic Cavity. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2111-2113.	13.8	350
6	Supramolecular Isomerism in Coordination Compounds: Nanoscale Molecular Hexagons and Chains. <i>Journal of the American Chemical Society</i> , 2002, 124, 9990-9991.	13.7	316
7	Crystal Engineering of a Nanoscale Kagomé Lattice. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2821-2824.	13.8	283
8	Recent advances of discrete coordination complexes and coordination polymers in drug delivery. <i>Coordination Chemistry Reviews</i> , 2011, 255, 1623-1641.	18.8	271
9	Nanoballs: nanoscale faceted polyhedra with large windows and cavities. <i>Chemical Communications</i> , 2001, , 863-864.	4.1	210
10	Polygons and Faceted Polyhedra and Nanoporous Networks. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2113-2116.	13.8	188
11	Coordination polymers: toward functional transition metal sustained materials and supermolecules. <i>Current Opinion in Solid State and Materials Science</i> , 2002, 6, 117-123.	11.5	161
12	DFT Computational Rationalization of an Unusual Spin Ground State in an Mn ₁₂ Single-Molecule Magnet with a Low-Symmetry Loop Structure. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 897-901.	13.8	156
13	A new 65.8 topology and a distorted 65.8 CdSO ₄ topology: two new supramolecular isomers of [M ₂ (bdc) ₂ (L) ₂] _n coordination polymers. Electronic supplementary information (ESI) available: schematic illustrations of some common 4-connected 3D networks. See http://www.rsc.org/suppdata/cc/b3/b301221b/ . <i>Chemical Communications</i> , 2003, , 1342.	4.1	145
14	Covalent and noncovalent interpenetrating planar networks in the crystal structure of {[Ni(4,4'-bipyridine) ₂ (NO ₃) ₂ ·2pyrene] _n . <i>Chemical Communications</i> , 1999, , 1327-1328.	4.1	132
15	Periodic Tiling of Pentagons: The First Example of a Two-Dimensional -net. <i>Journal of the American Chemical Society</i> , 2001, 123, 9224-9225.	13.7	124
16	A new supramolecular isomer of [Zn(nicotinate) ₂] _n : a novel 42.84 network that is the result of self-assembly of 4-connected nodes. Electronic supplementary information (ESI) available: experimental details, TGA and XRPD of all compounds. See http://www.rsc.org/suppdata/cc/b1/b111280p/ . <i>Chemical Communications</i> , 2002, , 694-695.	4.1	112
17	Coordination Polymers from Calixarene-Like [Cu ₂ (Dicarboxylate) ₂] ₄ Building Blocks: Structural Diversity via Atropisomerism. <i>Crystal Growth and Design</i> , 2003, 3, 513-519.	3.0	108
18	Exciplex fluorescence of {[Zn(bipy) _{1.5} (NO ₃) ₂ ·CH ₃ OH·0.5pyrene] _n : a coordination polymer containing intercalated pyrene molecules (bipy = 4,4'-bipyridine). <i>Chemical Communications</i> , 2002, , 2176-2177.	4.1	102

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19	Template Synthesis and Single-Molecule Magnetism Properties of a Complex with Spin $S = 16$ and a $[Mn_8O_8]^{8+}$ Saddle-Like Core. <i>Journal of the American Chemical Society</i> , 2003, 125, 15274-15275.	13.7	100
20	Hydroxylated nanoballs: synthesis, crystal structure, solubility and crystallization on surfaces. <i>Chemical Communications</i> , 2001, , 2380-2381.	4.1	91
21	Single-Molecule Magnets: A Family of MnIII/CeIV Complexes with a $[Mn_8CeO_8]^{12+}$ Core. <i>Inorganic Chemistry</i> , 2008, 47, 4832-4843.	4.0	64
22	Supramolecular Medicinal Chemistry: Mixed-Ligand Coordination Complexes. <i>Molecular Pharmaceutics</i> , 2007, 4, 373-385.	4.6	60
23	Crystal Engineering of Isostructural Quaternary Multicomponent Crystal Forms of Olanzapine. <i>Crystal Growth and Design</i> , 2012, 12, 4194-4201.	3.0	60
24	Coexisting covalent and non-covalent planar networks in the crystal structures of $\{[M(\text{bipy})_2(\text{NO}_3)_2] \cdot n \text{ arene}\}_n$ ($M = \text{Ni}$, 1; Co , 2; arene = chlorobenzene, o-dichlorobenzene, benzene). <i>Journal of Chemical Crystallography</i> , 2009, 39, 913-918.	1.1	23
25	Regio- and Stereocontrol Elements in Rh(II)-Catalyzed Intramolecular $C\text{-}H$ Insertion of β -Dialkyl- α -(phenylsulfonyl)acetamides. <i>Organic Letters</i> , 2001, 3, 3539-3542.	4.6	56
26	Mixed-Ligand Coordination Species: A Promising Approach for Second-Generation Drug Development. <i>Crystal Growth and Design</i> , 2007, 7, 196-198.	3.0	54
27	Generation of Linear Coordination Polymers of catena- $[Diaqua(\frac{1}{4}\text{-pyrazine-2,6-dicarboxylato-N,O})_2\text{copper(II)}]_n$ via in Situ Hydro(solvo)thermal Decarboxylation of Pyrazine-2,3,5,6-tetracarboxylic Acid. <i>Crystal Growth and Design</i> , 2006, 6, 829-832.	3.0	48
28	Coordination polymer gels: synthesis, structure and mechanical properties of amorphous coordination polymers. <i>Chemical Communications</i> , 2007, , 2802.	4.1	37
29	Bis(imidazolium 2,4,6-tricarboxypyridine) Metal(II) Complexes: Molecular Building Blocks that Generate Isomorphous Hydrogen-Bonded Frameworks. <i>Crystal Growth and Design</i> , 2006, 6, 63-69.	3.0	34
30	A Novel Polymorph of 5-Chloro-8-Hydroxyquinoline with Improved Water Solubility and Faster Dissolution Rate. <i>Journal of Chemical Crystallography</i> , 2009, 39, 913-918.	1.1	23
31	Design, synthesis and structural diversity in coordination polymers. <i>Macromolecular Symposia</i> , 2003, 196, 213-227.	0.7	22
32	Coexisting covalent and noncovalent nets: parallel interpenetration of a puckered rectangular coordination polymer and aromatic noncovalent nets. <i>Chemical Communications</i> , 2001, , 861-862.	4.1	21
33	Interpenetrating covalent and noncovalent nets in the crystal structures of $[M(4,4'\text{-bipyridine})_2(\text{NO}_3)_2] \cdot n \text{C}_{10}\text{H}_8$ ($M = \text{Co}, \text{Ni}$). <i>Crystal Engineering</i> , 1999, 2, 37-45.	0.7	20
34	A Neutral Molecular Railroad Coordination Polymer That Incorporates Polycyclic Aromatic Molecules: Synthesis and Single-Crystal X-Ray Structure of $[\text{Co}(4,4'\text{-bipyridine})_2.5(\text{NO}_3)_2] \cdot n \text{Phenanthrene}$. <i>Journal of Solid State Chemistry</i> , 2000, 152, 280-285.	2.9	20
35	Conformational isomerism and hydrogen-bonded motifs of anion assisted supramolecular self-assemblies using CuII/Coll salts and pyridine-4-acetamide. <i>Inorganica Chimica Acta</i> , 2010, 363, 387-394.	2.4	20
36	Modifying Lipophilicities of Zn(II) Coordination Species by Introduction of Ancillary Ligands: A Supramolecular Chemistry Approach. <i>Crystal Growth and Design</i> , 2010, 10, 2376-2381.	3.0	20

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37	Tri-metal Secondary Building Units: Toward the Design of Thermally Robust Crystalline Coordination Polymers. <i>Journal of Chemical Crystallography</i> , 2007, 37, 743-747.	1.1	19
38	Postsynthetic modification of a coordination compound with a paddlewheel motif via click reaction: DOSY and ESR studies. <i>Inorganic Chemistry Communication</i> , 2012, 15, 78-83.	3.9	15
39	A single-crystalline microporous coordination polymer with mixed parallel and diagonal interpenetrating Γ -Po networks. <i>CrystEngComm</i> , 2011, 13, 4838.	2.6	13
40	Supramolecular associates of para-aminobenzoic acid with N- and N,O-heterocyclic molecules. <i>New Journal of Chemistry</i> , 2007, 31, 561.	2.8	10
41	Two-step postsynthetic modifications of a dinuclear Zn(II) coordination compound: Investigating the stability of the coordination chromophore. <i>Inorganica Chimica Acta</i> , 2012, 388, 135-139.	2.4	10
42	Cleistenolide and Cleistodienol: Novel Bioactive Constituents of <i>Cleistochlamys kirkii</i> . <i>Natural Product Communications</i> , 2007, 2, 1934578X0700200.	0.5	7
43	Tetranuclear [Mn ₂ Co ₂], [Mn ₂ Fe ₂], and [Mn ₂ Mn ₂] Complexes with Defective Double-Cubane Cores and Phenoxo and Oxo Bridges: Syntheses, Crystal Structures, and Electronic Properties. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3527-3535.	2.0	3
44	Reaction of 1,2-bis(2,6-dicarboxypyridin-4-yl)ethyne with Co(II) generates coordination monomers not polymers: Crystal structure of 4-(2,6-dicarboxypyridin-4-yl)ethynylpyridine-2,6-dicarboxylatotriaqua cobalt(II) monohydrate. <i>Journal of Chemical Crystallography</i> , 2006, 36, 371-379.	1.1	2
45	Reaction of 1,2-bis(2,6-dicarboxypyridin-4-yl)ethyne and imidazole with Cu(II) generates a discrete complex not a coordination polymer: crystal structure of $[\frac{1}{4}4,4\text{-}(\text{1,2-ethynediyl})\text{-bis}(\text{pyridine-2,6-dicarboxylato})\text{-N, O, O}^{\frac{1}{4}}\text{-Na}^{\frac{1}{4}}, \text{O}^{\frac{1}{4}}\text{-}^{\frac{1}{4}}\text{-diaqua-bis}(\text{imidazole})\text{-dicopp}$. <i>Journal of Chemical Crystallography</i> , 2007, 37, 299-308.	1.1	2
46	Coordination Polymers: Toward Functional Transition Metal Sustained Materials and Supermolecules. <i>ChemInform</i> , 2003, 34, no.	0.0	0