

# Davide M Proserpio

## List of Publications by Citations

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222 papers	20,089 citations	71 h-index	138 g-index
244 ext. papers	21,465 ext. citations	7 avg, IF	6.98 L-index

#	Paper	IF	Citations
222	Applied Topological Analysis of Crystal Structures with the Program Package ToposPro. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 3576-3586	3.5	1865
221	Polycatenation, polythreading and polyknotting in coordination network chemistry. <i>Coordination Chemistry Reviews</i> , <b>2003</b> , 246, 247-289	23.2	1821
220	Interpenetrating metal-organic and inorganic 3D networks: a computer-aided systematic investigation. Part I. Analysis of the Cambridge structural database. <i>CrystEngComm</i> , <b>2004</b> , 6, 377-395	3.3	1069
219	MO theory made visible. <i>Journal of Chemical Education</i> , <b>1990</b> , 67, 399	2.4	744
218	Vertex-, face-, point-, Schläfli-, and Delaney-symbols in nets, polyhedra and tilings: recommended terminology. <i>CrystEngComm</i> , <b>2010</b> , 12, 44-48	3.3	633
217	Underlying nets in three-periodic coordination polymers: topology, taxonomy and prediction from a computer-aided analysis of the Cambridge Structural Database. <i>CrystEngComm</i> , <b>2011</b> , 13, 3947	3.3	555
216	Borromean links and other non-conventional links in polycatenated coordination polymers: re-examination of some puzzling networks. <i>CrystEngComm</i> , <b>2003</b> , 5, 269-279	3.3	346
215	Polymeric Layers Catenated by Ribbons of Rings in a Three-Dimensional Self-Assembled Architecture: A Nanoporous Network with Spongelike Behavior. <i>Angewandte Chemie - International Edition</i> , <b>2000</b> , 39, 1506-1510	16.4	328
214	Interpenetrating metal-organic and inorganic 3D networks: a computer-aided systematic investigation. Part II [1]. Analysis of the Inorganic Crystal Structure Database (ICSD). <i>Journal of Solid State Chemistry</i> , <b>2005</b> , 178, 2452-2474	3.3	318
213	Novel Networks of Unusually Coordinated Silver(I) Cations: The Wafer-Like Structure of [Ag(pyz) <sub>2</sub> ][Ag <sub>2</sub> (pyz) <sub>5</sub> ](PF <sub>6</sub> ) <sub>3</sub> and the Simple Cubic Frame of [Ag(pyz) <sub>3</sub> ](SbF <sub>6</sub> ). <i>Angewandte Chemie International Edition in English</i> , <b>1995</b> , 34, 1895-1898		246
212	New polymeric networks from the self-assembly of silver(I) salts and the flexible ligand 1,3-bis(4-pyridyl)propane (bpp). A systematic investigation of the effects of the counterions and a survey of the coordination polymers based on bpp. <i>CrystEngComm</i> , <b>2002</b> , 4, 121	3.3	242
211	Self-Assembly of Infinite Double Helical and Tubular Coordination Polymers from Ag(CF <sub>3</sub> SO <sub>3</sub> ) and 1,3-Bis(4-pyridyl)propane. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 3812-3813	5.1	241
210	Complex Interwoven Polymeric Frames from the Self-Assembly of Silver(I) Cations and Sebaconitrile. <i>Chemistry - A European Journal</i> , <b>1999</b> , 5, 237-243	4.8	239
209	1-, 2-, and 3-Dimensional Polymeric Frames in the Coordination Chemistry of AgBF <sub>4</sub> with Pyrazine. The First Example of Three Interpenetrating 3-Dimensional Triconnected Nets. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 4562-4569	16.4	239
208	Interpenetrated Three-Dimensional Networks of Hydrogen-Bonded Organic Species: A Systematic Analysis of the Cambridge Structural Database. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 519-539	3.5	224
207	Experimental Electron Density in a Transition Metal Dimer: Metal-Metal and Metal-Ligand Bonds. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 13429-13435	16.4	222
206	Entangled two-dimensional coordination networks: a general survey. <i>Chemical Reviews</i> , <b>2014</b> , 114, 7557-7601	16.1	221

205	What do we know about three-periodic nets?. <i>Journal of Solid State Chemistry</i> , <b>2005</b> , 178, 2533-2554	3.3	220
204	A new type of entanglement involving one-dimensional ribbons of rings catenated to a three-dimensional network in the nanoporous structure of [Co(bix) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> ](SO <sub>4</sub> ).7H <sub>2</sub> O [bix = 1,4-bis(imidazol-1-ylmethyl)benzene]. <i>Chemical Communications</i> , <b>2004</b> , 380-1	5.8	216
203	Interpenetrating diamondoid frameworks of silver(I) cations linked by N,N'-bidentate molecular rods. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 2755-2756		206
202	Low temperature route towards new materials: solvothermal synthesis of metal chalcogenides in ethylenediamine. <i>Coordination Chemistry Reviews</i> , <b>1999</b> , 190-192, 707-735	23.2	205
201	Three novel interpenetrating diamondoid networks from self-assembly of 1,12-dodecanedinitrile with silver(I) salts. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 1520-7	4.8	194
200	High-nuclearity cobalt coordination clusters: Synthetic, topological and magnetic aspects. <i>Coordination Chemistry Reviews</i> , <b>2012</b> , 256, 1246-1278	23.2	185
199	An unprecedented triply interpenetrated chiral network of square-planar metal centres from the self-assembly of copper(II) nitrate and 1,2-bis(4-pyridyl)ethyne. <i>Chemical Communications</i> , <b>1998</b> , 1837-1838	5.8	175
198	Non-natural eight-connected solid-state materials: a new coordination chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 1851-4	16.4	174
197	Homo Citans and Carbon Allotropes: For an Ethics of Citation. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10962-76	16.4	172
196	An Indium Layered MOF as Recyclable Lewis Acid Catalyst. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 72-76	9.6	170
195	Double-step gas sorption of a two-dimensional metal-organic framework. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12362-3	16.4	169
194	Topologically guided tuning of Zr-MOF pore structures for highly selective separation of C <sub>6</sub> alkane isomers. <i>Nature Communications</i> , <b>2018</b> , 9, 1745	17.4	166
193	Three-periodic nets and tilings: natural tilings for nets. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2007</b> , 63, 418-25		153
192	Topological relations between three-periodic nets. II. Binodal nets. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2009</b> , 65, 202-12		152
191	Extended networks via hydrogen bond cross-linkages of [M(bipy)] (M = Zn <sup>2+</sup> or Fe <sup>2+</sup> ; bipy = 4,4'-bipyridyl) linear co-ordination polymers. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1997</b> , 1801-1804		151
190	Interpenetrated three-dimensional hydrogen-bonded networks from metal-organic molecular and one- or two-dimensional polymeric motifs. <i>CrystEngComm</i> , <b>2008</b> , 10, 1822	3.3	150
189	A new type of supramolecular entanglement in the silver(I) coordination polymer [Ag <sub>2</sub> (bpethy) <sub>5</sub> ](BF <sub>4</sub> ) <sub>2</sub> [bpethy = 1,2-bis(4-pyridyl)ethyne]. <i>Chemical Communications</i> , <b>1999</b> , 449-450	5.8	143
188	A Rare-Earth MOF Series: Fascinating Structure, Efficient Light Emitters, and Promising Catalysts. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 378-380	3.5	140

187	Tailor-Made Microporous Metal-Organic Frameworks for the Full Separation of Propane from Propylene Through Selective Size Exclusion. <i>Advanced Materials</i> , <b>2018</b> , 30, e1805088	24	139
186	Open network architectures from the self-assembly of AgNO <sub>3</sub> and 5,10,15,20-tetra(4-pyridyl)porphyrin (H <sub>2</sub> tpyp) building blocks: the exceptional self-penetrating topology of the 3D network of [Ag <sub>8</sub> (ZnIItpyp) <sub>7</sub> (H <sub>2</sub> O) <sub>2</sub> ](NO <sub>3</sub> ) <sub>8</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 817-22	16.4	138
185	Controlling the Structure of Arenedisulfonates toward Catalytically Active Materials. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 655-661	9.6	134
184	Polymeric Helical Motifs from the Self-Assembly of Silver Salts and Pyridazine. <i>Inorganic Chemistry</i> , <b>1998</b> , 37, 5941-5943	5.1	134
183	A short history of an elusive yet ubiquitous structure in chemistry, materials, and mathematics. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 7996-8000	16.4	129
182	Chiral packing of chiral quintuple layers polycatenated to give a three-dimensional network in the coordination polymer [Co <sub>5</sub> (bpe) <sub>9</sub> (H <sub>2</sub> O) <sub>8</sub> (SO <sub>4</sub> ) <sub>4</sub> ](SO <sub>4</sub> ) <sub>4</sub> ·4H <sub>2</sub> O [bpe = 1,2-bis(4-pyridyl)ethane]. <i>Chemical Communications</i> , <b>2000</b> , 1319-1320	5.8	128
181	Using long bis(4-pyridyl) ligands designed for the self-assembly of coordination frameworks and architectures. <i>Dalton Transactions RSC</i> , <b>2002</b> , 2714-2721		121
180	Parallel and Inclined (1D -j2D) Interlacing Modes in New Polyrotaxane Frameworks [M <sub>2</sub> (bix) <sub>3</sub> (SO <sub>4</sub> ) <sub>2</sub> ] [M = Zn(II), Cd(II); Bix = 1,4-Bis(imidazol-1-ylmethyl)benzene]. <i>Crystal Growth and Design</i> , <b>2005</b> , 5, 37-39	3.5	114
179	Self-assembly of novel co-ordination polymers containing polycatenated molecular ladders and intertwined two-dimensional tilings. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1999</b> , 1799-1804		112
178	Highly interpenetrated supramolecular networks supported by N...I halogen bonding. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 5765-72	4.8	107
177	Spectroscopic and theoretical studies on the excited state in diimine dithiolate complexes of platinum(II). <i>Inorganic Chemistry</i> , <b>1992</b> , 31, 2396-2404	5.1	107
176	Self-assembly of a three-dimensional network from two-dimensional layers via metallic spacers: the (3,4)-connected frame of [Ag <sub>3</sub> (hmt) <sub>2</sub> ][ClO <sub>4</sub> ] <sub>3</sub> ·H <sub>2</sub> O (hmt = hexamethylenetetramine). <i>Chemical Communications</i> , <b>1997</b> , 631-632	5.8	105
175	Supramolecular isomers in the same crystal: a new case involving two different types of layers polycatenated in the 3D architecture of [Cu(bix) <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> ] <sub>2</sub> ·5H <sub>2</sub> O [bix = 1,4-bis(imidazol-1-ylmethyl)benzene]. <i>CrystEngComm</i> , <b>2004</b> , 4, 96-101	3.3	103
174	Super flexibility of a 2D Cu-based porous coordination framework on gas adsorption in comparison with a 3D framework of identical composition: framework dimensionality-dependent gas adsorptivities. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10512-22	16.4	99
173	Heterometallic modular metal-organic 3D frameworks assembled via new tris-β-diketonate metalloligands: nanoporous materials for anion exchange and scaffolding of selected anionic guests. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 12328-41	4.8	95
172	Coordination networks from the self-assembly of silver salts and the linear chain dinitriles NC(CH <sub>2</sub> ) <sub>n</sub> CN (n = 2 to 7): a systematic investigation of the role of counterions and of the increasing length of the spacers. <i>CrystEngComm</i> , <b>2002</b> , 2, 413-425	3.3	95
171	A New Polycatenated 3D Array of Interlaced 2D Brickwall Layers and 1D Molecular Ladders in [Mn <sub>2</sub> (bix) <sub>3</sub> (NO <sub>3</sub> ) <sub>4</sub> ] <sub>2</sub> ·CHCl <sub>3</sub> [bix = 1,4-bis(imidazol-1-ylmethyl)benzene] That Undergoes Supramolecular Isomerization upon Guest Removal. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 162-165	3.5	93
170	A three-dimensional nanoporous flexible network of square-planar copper(II) centres with an unusual topology. <i>Chemical Communications</i> , <b>2002</b> , 1354-1355	5.8	89

- 169 The asc trinodal platform: two-step assembly of triangular, tetrahedral, and trigonal-prismatic molecular building blocks. *Angewandte Chemie - International Edition*, **2013**, 52, 2902-5 16.4 87
- 168 Highly interpenetrated diamondoid nets of Zn(II) and Cd(II) coordination networks from mixed ligands. *CrystEngComm*, **2012**, 14, 537-543 3.3 86
- 167 Interpenetrated and Noninterpenetrated Three-Dimensional Networks in the Polymeric Species Ag(tta) and 2 Ag(tta)·AgNO<sub>3</sub> (tta=tetrazolate): The First Examples of the  $\pi$ - $\pi$ : $\pi$ : $\pi$  Bonding Mode for Tetrazolate. *Angewandte Chemie - International Edition*, **1999**, 38, 3488-3492 16.4 86
- 166 New architectures from the self-assembly of MII<sub>2</sub>SO<sub>4</sub> salts with bis(4-pyridyl) ligands. The first case of polycatenation involving three distinct sets of 2D polymeric (4,4)-layers parallel to a common axis. *CrystEngComm*, **2003**, 5, 190 3.3 83
- 165 A Three-Dimensional, Three-Connected Cubic Network of the SrSi<sub>2</sub> Topological Type in Coordination Polymer Chemistry: [Ag(hmt)](PF<sub>6</sub>)·nH<sub>2</sub>O (hmt = Hexamethylenetetraamine). *Journal of the American Chemical Society*, **1995**, 117, 12861-12862 16.4 83
- 164 Ligand isomerism-controlled structural diversity of cadmium(II) perchlorate coordination polymers containing dipyridyladipoamide ligands. *CrystEngComm*, **2009**, 11, 168-176 3.3 81
- 163 Discrete molecular and extended polymeric copper(I) halide complexes of tetradentate thioether macrocycles. *Dalton Transactions RSC*, **2001**, 456-465 81
- 162 Diverse  $\pi$ -stacking motifs modulate electrical conductivity in tetrathiafulvalene-based metal-organic frameworks. *Chemical Science*, **2019**, 10, 8558-8565 9.4 80
- 161 A Porous Covalent Organic Framework with Voided Square Grid Topology for Atmospheric Water Harvesting. *Journal of the American Chemical Society*, **2020**, 142, 2218-2221 16.4 78
- 160 A method for topological analysis of high nuclearity coordination clusters and its application to Mn coordination compounds. *Dalton Transactions*, **2012**, 41, 4634-40 4.3 77
- 159 Structural studies of molecular-based nanoporous materials. Novel networks of silver(I) cations assembled with the polydentate N-donor bases hexamethylenetetramine and 1,3,5-triazine. *Journal of Materials Chemistry*, **1997**, 7, 1271-1276 77
- 158 Experimental Electron Density Studies for Investigating the Metal-Ligand Bond: the Case of Bis(1,5-cyclooctadiene)nickel. *Journal of the American Chemical Society*, **1998**, 120, 1447-1455 16.4 77
- 157 Possible Hard Materials Based on Interpenetrating Diamond-like Networks. *Journal of the American Chemical Society*, **1994**, 116, 9634-9637 16.4 77
- 156 Urea Metal-Organic Frameworks for Nitro-Substituted Compounds Sensing. *Inorganic Chemistry*, **2017**, 56, 1446-1454 5.1 75
- 155 2D Polymeric Silver(I) Complexes Consisting of Markedly Undulated Sheets of Squares. X-ray Crystal Structures of [Ag(ppz)<sub>2</sub>](BF<sub>4</sub>) and [Ag(pyz)<sub>2</sub>](PF<sub>6</sub>) (ppz = Piperazine, pyz = Pyrazine). *Inorganic Chemistry*, **1995**, 34, 5698-5700 5.1 75
- 154 The Zeolite Conundrum: Why Are There so Many Hypothetical Zeolites and so Few Observed? A Possible Answer from the Zeolite-Type Frameworks Perceived As Packings of Tiles. *Chemistry of Materials*, **2013**, 25, 412-424 9.6 72
- 153 A novel two-dimensional mercury antimony telluride: low temperature synthesis and characterization of RbHgSbTe<sub>3</sub>. *Journal of Alloys and Compounds*, **1997**, 262-263, 28-33 5.7 71
- 152 Three-dimensional architectures of intertwined planar coordination polymers: the first case of interpenetration involving two different bidimensional polymeric motifs. *New Journal of Chemistry*, **1998**, 22, 1319-1321 3.6 71

- 151 New examples of self-catenation in two three-dimensional polymeric co-ordination networks. *Dalton Transactions RSC*, **2000**, 3821-3828 70
- 150 Molecular mechanism of photosynthetic oxygen evolution. A theoretical approach. *Journal of the American Chemical Society*, **1992**, 114, 4374-4382 16.4 70
- 149 Topological crystal chemistry: Polycatenation weaves a 3D web. *Nature Chemistry*, **2010**, 2, 435-6 17.6 69
- 148 New Metal-Organic Framework with Uninodal 4-Connected Topology Displaying Interpenetration, Self-Catenation, and Second-Order Nonlinear Optical Response. *Crystal Growth and Design*, **2010**, 10, 1489-1491 3.5 66
- 147 Natural Tilings for Zeolite-Type Frameworks. *Journal of Physical Chemistry C*, **2010**, 114, 10160-10170 3.8 66
- 146 Interpenetrated metal-organic frameworks of self-catenated four-connected mof nets. *Chemical Communications*, **2011**, 47, 5982-4 5.8 65
- 145 Nanocluster model of intermetallic compounds with giant unit cells: beta, beta'-Mg(2)Al(3) polymorphs. *Inorganic Chemistry*, **2010**, 49, 1811-8 5.1 65
- 144 Extracting Crystal Chemistry from Amorphous Carbon Structures. *ChemPhysChem*, **2017**, 18, 873-877 3.2 63
- 143 Silver(I) polymeric coordination frameworks assembled with the new multimodal ligand 2,2'-azobispyrazine. *New Journal of Chemistry*, **2003**, 27, 483-489 3.6 63
- 142 Synthesis, structure characterization and magnetic properties of tellurostannates [M(en)32(Sn2Te6) (M = Mn, Zn). *Inorganica Chimica Acta*, **1998**, 273, 310-315 2.7 62
- 141 Monitoring the Crystal Growth and Interconversion of New Coordination Networks in the Self-assembly of MCl2 Salts (M = Co, Ni, Cu, Cd) and 1,3-Bis(4-pyridyl)propane. *Chemistry of Materials*, **2002**, 14, 12-16 9.6 60
- 140 A three-dimensional faceted-Interpenetration of two enantiomeric networks of the SrSi2 topological type in the polymeric complex [Ag2(2,3-Me2pyz)3][SbF6]2(2,3-Me2pyz = 2,3-dimethylpyrazine). *Chemical Communications*, **1996**, 1393-1394 5.8 59
- 139 A Novel 3D Three-Connected Cubic Network Containing [Ag(6)(hmt)(6)](6+) Hexagonal Units (hmt = Hexamethylenetetramine). *Inorganic Chemistry*, **1997**, 36, 1736-1737 5.1 57
- 138 A topological method for the classification of entanglements in crystal networks A preliminary account of this work was presented at the workshop 'Topological dynamics in physics and biology' held in Pisa, 12-13 July 2011.. *Acta Crystallographica Section A: Foundations and Advances*, **2012**, 68, 484-493 56
- 137 Generating carbon schwarzites via zeolite-templating. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E8116-E8124 11.5 54
- 136 Predicting crystal growth via a unified kinetic three-dimensional partition model. *Nature*, **2017**, 544, 456-459 5.2 53
- 135 Distinguishing Metal-Organic Frameworks. *Crystal Growth and Design*, **2018**, 18, 1738-1747 3.5 53
- 134 Three lanthanum MOF polymorphs: insights into kinetically and thermodynamically controlled phases. *Inorganic Chemistry*, **2009**, 48, 4707-13 5.1 53



133	Dendrimeric Tectons in Halogen Bonding-Based Crystal Engineering. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 654-659	3.5	53
132	Novel hetero-bimetallic metalla-macrocycles based on the bis-1-pyridyl ferrocene [Fe(eta 5-C5H(4)-1-C5H4N)2] ligand. Design, synthesis and structural characterization of the complexes [Fe(eta 5-C5H(4)-1-C5H4N)2](AgI)2(2+)/(CuII)2(4+)/(ZnII)2(4+). <i>Chemical Communications</i> , <b>2002</b> , 1080-1	5.8	53
131	Crystal Engineering of Mixed-Metal RuAg Coordination Networks by Using the trans-[RuCl2(pyz)4] (pyz=pyrazine) Building Block. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 1907	16.4	52
130	Exploring Tellurides: Synthesis and Characterization of New Binary, Ternary, and Quaternary Compounds. <i>Journal of Solid State Chemistry</i> , <b>1995</b> , 117, 247-255	3.3	52
129	New Type of Polymeric Indium Tellurides: Low-Temperature Synthesis and Structure Characterization of [M(en)(3)]In(2)Te(6) (M = Fe, Zn) and alpha- and beta-[Mo(3)(en)(3)&ampmgr(2)-Te(2))(3)&ampmgr(3)-Te)&ampmgr(3)-O)]In(2)Te(6). <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 1437-1442	5.1	51
128	EBrass polyhedral core in intermetallics: the nanocluster model. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 13094-1075.1	5.1	50
127	Generation of a 4-crossing [2]-catenane motif by the 2D-2D parallel interpenetration of pairs of (4,4) sheets. <i>CrystEngComm</i> , <b>2008</b> , 10, 1123	3.3	50
126	Polymeric Networks of Silver(I) and Copper(I) Ions Linked by an Anionic Acetonyl Derivative of Tetracyanoethylene. <i>Angewandte Chemie International Edition in English</i> , <b>1996</b> , 35, 1088-1090		50
125	Water-stable fluorinated metalorganic frameworks (F-MOFs) with hydrophobic properties as efficient and highly active heterogeneous catalysts in aqueous solution. <i>Green Chemistry</i> , <b>2018</b> , 20, 5336-5345	10.9	48
124	Record Complexity in the Polycatenation of Three Porous Hydrogen-Bonded Organic Frameworks with Stepwise Adsorption Behaviors. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 7218-7224	16.4	47
123	Four new 2D porous polymeric frames from the self-assembly of silver triflate and silver tosylate with free-base and Zn-metallated 5,10,15,20-tetra(4-pyridyl)porphyrin. <i>CrystEngComm</i> , <b>2005</b> , 7, 78	3.3	47
122	Synthesis, Chemical Characterization, and Bonding Analysis of the [Ag{Fe(CO)4}2]3-, [Ag4{.mu.2-Fe(CO)4}4]4-, and [Ag5{.mu.2-Fe(CO)4}2{.mu.3-Fe(CO)4}2]3- Cluster Anions. X-ray Structural Determination of [NMe3CH2Ph]4[Ag4Fe4(CO)16] and [NEt4]3[Ag5Fe4(CO)16]. <i>Inorganic Chemistry</i> , <b>1994</b> , 33, 5329-5338	5.1	47
121	New metalorganic frameworks and supramolecular arrays assembled with the bent ditopic ligand 4,4-diaminodiphenylmethane. <i>CrystEngComm</i> , <b>2006</b> , 8, 696-706	3.3	46
120	An Unusual Three-Dimensional Coordination Network Formed by Parallel Polycatenation of Two-Fold Interpenetrated (6,3) Layers Based on a Novel Three-Connecting Ligand. <i>Crystal Growth and Design</i> , <b>2004</b> , 4, 29-32	3.5	44
119	Predicting superhard materials via a machine learning informed evolutionary structure search. <i>Npj Computational Materials</i> , <b>2019</b> , 5,	10.9	43
118	Deconstruction of Crystalline Networks into Underlying Nets: Relevance for Terminology Guidelines and Crystallographic Databases. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 3411-3418	3.5	42
117	Design, Synthesis, and Structural Characterization of Molecular and Supramolecular Heterobimetallic Metallamacrocycles Based on the 1,1-Bis(4-pyridyl)ferrocene (Fe(15-C5H4-1-C5H4N)2) Ligand. <i>Organometallics</i> , <b>2003</b> , 22, 4532-4538	3.8	41
116	Crystal engineering of coordination polymers and architectures using the [Cu(2,2'-bipy)]2+-molecular corner as building block (bipy = 2,2'-bipyridyl). <i>CrystEngComm</i> , <b>2000</b> , 2, 154-163	3.3	41

115	From zeolite nets to sp(3) carbon allotropes: a topology-based multiscale theoretical study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 1332-8	3.6	40
114	Data-driven learning and prediction of inorganic crystal structures. <i>Faraday Discussions</i> , <b>2018</b> , 211, 45-59	3.6	40
113	Periodic-Graph Approaches in Crystal Structure Prediction <b>2010</b> , 1-28		40
112	The novel metalloligand [Fe(bppd) <sub>3</sub> ] (bppd = 1,3-bis(4-pyridyl)-1,3-propanedionate) for the crystal engineering of heterometallic coordination networks with different silver salts. Anionic control of the structures. <i>CrystEngComm</i> , <b>2011</b> , 13, 5891	3.3	39
111	Structural Properties and Topological Diversity of Polymeric Ag(I)-hexamethylenetetramine Complexes: Self-Assembly of Three Novel Two-Dimensional Coordination Networks and Their Supramolecular Interactions. <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 152, 211-220	3.3	38
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109	How 2-periodic coordination networks are interweaved: entanglement isomerism and polymorphism. <i>CrystEngComm</i> , <b>2017</b> , 19, 1993-2006	3.3	36
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