

Makoto Fujita

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249 papers	29,081 citations	81 h-index	168 g-index
261 ext. papers	31,381 ext. citations	11.9 avg, IF	7.42 L-index

#	Paper	IF	Citations
249	Preparation, Clathration Ability, and Catalysis of a Two-Dimensional Square Network Material Composed of Cadmium(II) and 4,4'-Bipyridine. <i>Journal of the American Chemical Society</i> , 1994 , 116, 1151-1152	16.4	2087
248	Coordination assemblies from a Pd(II)-cornered square complex. <i>Accounts of Chemical Research</i> , 2005 , 38, 369-78	24.3	1779
247	Functional molecular flasks: new properties and reactions within discrete, self-assembled hosts. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3418-38	16.4	1520
246	Metal-directed self-assembly of two- and three-dimensional synthetic receptors. <i>Chemical Society Reviews</i> , 1998 , 27, 417	58.5	1116
245	Diels-alder in aqueous molecular hosts: unusual regioselectivity and efficient catalysis. <i>Science</i> , 2006 , 312, 251-4	33.3	1009
244	Self-assembly of ten molecules into nanometre-sized organic host frameworks. <i>Nature</i> , 1995 , 378, 469-471	50.4	789
243	Molecular paneling via coordination. <i>Chemical Communications</i> , 2001 , 509-518	5.8	744
242	Self-assembled M24L48 polyhedra and their sharp structural switch upon subtle ligand variation. <i>Science</i> , 2010 , 328, 1144-7	33.3	651
241	Preparation of a macrocyclic polynuclear complex, [(en)Pd(4,4'-bpy)] ₄ (NO ₃) ₈ (en = ethylenediamine, bpy = bipyridine), which recognizes an organic molecule in aqueous media. <i>Journal of the American Chemical Society</i> , 1990 , 112, 5645-5647	16.4	638
240	X-ray analysis on the nanogram to microgram scale using porous complexes. <i>Nature</i> , 2013 , 495, 461-6	50.4	593
239	Crystalline molecular flasks. <i>Nature Chemistry</i> , 2011 , 3, 349-58	17.6	497
238	Giant hollow M(n)L(2n) spherical complexes: structure, functionalisation and applications. <i>Chemical Communications</i> , 2013 , 49, 6703-12	5.8	444
237	Funktionale molekulare Reaktionskolben: neuartige Eigenschaften und Reaktionen in diskreten, selbstorganisierten Wirtmolekülen. <i>Angewandte Chemie</i> , 2009 , 121, 3470-3490	3.6	437
236	A springlike 3D-coordination network that shrinks or swells in a crystal-to-crystal manner upon guest removal or readsorption. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3392-5	16.4	378
235	Quantitative self-assembly of a [2]catenane from two preformed molecular rings. <i>Nature</i> , 1994 , 367, 720-723	50.4	371
234	Self-assembly of tetravalent Goldberg polyhedra from 144 small components. <i>Nature</i> , 2016 , 540, 563-566	50.4	369
233	A nanometre-sized hexahedral coordination capsule assembled from 24 components. <i>Nature</i> , 1999 , 398, 794-796	50.4	360

- 232 Spontaneous assembly of ten components into two interlocked, identical coordination cages. *Nature*, **1999**, 400, 52-55 50.4 359
- 231 Finite, spherical coordination networks that self-organize from 36 small components. *Angewandte Chemie - International Edition*, **2004**, 43, 5621-5 16.4 350
- 230 Direct observation of crystalline-state guest exchange in coordination networks. *Coordination Chemistry Reviews*, **2007**, 251, 2592-2605 23.2 305
- 229 Ship-in-a-Bottle Synthesis of Otherwise Labile Cyclic Trimers of Siloxanes in a Self-Assembled Coordination Cage. *Journal of the American Chemical Society*, **2000**, 122, 6311-6312 16.4 289
- 228 Guest-Induced Organization of a Three-Dimensional Palladium(II) Cage-like Complex. A Prototype for "Induced-Fit" Molecular Recognition. *Journal of the American Chemical Society*, **1995**, 117, 1649-1650 16.4 288
- 227 Cavity-directed, highly stereoselective [2+2] photodimerization of olefins within self-assembled coordination cages. *Angewandte Chemie - International Edition*, **2002**, 41, 1347-9 16.4 282
- 226 Networked molecular cages as crystalline sponges for fullerenes and other guests. *Nature Chemistry*, **2010**, 2, 780-3 17.6 280
- 225 Crystal-to-crystal sliding of 2D coordination layers triggered by guest exchange. *Angewandte Chemie - International Edition*, **2002**, 41, 3395-8 16.4 279
- 224 Fluorous nanodroplets structurally confined in an organopalladium sphere. *Science*, **2006**, 313, 1273-6 33.3 270
- 223 Quantitative Formation of Coordination Nanotubes Templated by Rodlike Guests. *Journal of the American Chemical Society*, **1999**, 121, 7457-7458 16.4 242
- 222 X-ray observation of a transient hemiaminal trapped in a porous network. *Nature*, **2009**, 461, 633-5 50.4 241
- 221 Cavity-directed synthesis within a self-assembled coordination cage: highly selective [2 + 2] cross-photodimerization of olefins. *Journal of the American Chemical Society*, **2003**, 125, 3243-7 16.4 234
- 220 Radical C-H functionalization of heteroarenes under electrochemical control. *Angewandte Chemie - International Edition*, **2014**, 53, 11868-71 16.4 228
- 219 Cage-catalyzed Knoevenagel condensation under neutral conditions in water. *Journal of the American Chemical Society*, **2012**, 134, 162-4 16.4 227
- 218 Self-assembled M(6)L(4)-type coordination nanocage with 2,2'-bipyridine ancillary ligands. Facile crystallization and X-ray analysis of shape-selective enclathration of neutral guests in the cage. *Journal of the American Chemical Society*, **2002**, 124, 13576-82 16.4 207
- 217 Self-Assembly of Nanometer-Sized Macrotricyclic Complexes from Ten Small Component Molecules. *Angewandte Chemie - International Edition*, **1998**, 37, 2082-2085 16.4 203
- 216 Crystal-to-crystal guest exchange of large organic molecules within a 3D coordination network. *Journal of the American Chemical Society*, **2004**, 126, 16292-3 16.4 200
- 215 A Nanometer-Sized Metallosupramolecular Cube with Oh Symmetry. *Journal of the American Chemical Society*, **2000**, 122, 4819-4820 16.4 196

214	Naphthalene Diels-Alder in a self-assembled molecular flask. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2866-7	16.4	194
213	Alkane oxidation via photochemical excitation of a self-assembled molecular cage. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9172-3	16.4	190
212	Self-Assembly of M 30 L 60 Icosidodecahedron. <i>Chem</i> , 2016 , 1, 91-101	16.2	190
211	Protein encapsulation within synthetic molecular hosts. <i>Nature Communications</i> , 2012 , 3, 1093	17.4	170
210	Cavity-directed synthesis of labile silanol oligomers within self-assembled coordination cages. <i>Journal of the American Chemical Society</i> , 2001 , 123, 10454-9	16.4	167
209	A Thermally Switchable Molecular Lock. Guest-Templated Synthesis of a Kinetically Stable Nanosized Cage. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8561-8562	16.4	166
208	24-fold endohedral functionalization of a self-assembled M12L24 coordination nanoball. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11950-1	16.4	164
207	Ship-in-a-Bottle Formation of Stable Hydrophobic Dimers of cis-Azobenzene and -Stilbene Derivatives in a Self-Assembled Coordination Nanocage. <i>Journal of the American Chemical Society</i> , 1999 , 121, 1397-1398	16.4	163
206	Permeable Self-Assembled Molecular Containers for Catalyst Isolation Enabling Two-Step Cascade Reactions. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6090-6093	16.4	162
205	Guest-Selected Formation of Pd(II)-Linked Cages from a Prototypical Dynamic Library. <i>Journal of the American Chemical Society</i> , 1999 , 121, 10239-10240	16.4	162
204	One-step synthesis of [16]helicene. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6847-51	16.4	147
203	Supramolecular Self-Assembly of Macrocycles, Catenanes, and Cages through Coordination of Pyridine-Based Ligands to Transition Metals. <i>Bulletin of the Chemical Society of Japan</i> , 1996 , 69, 1471-1482	5.1	143
202	Remarkable stabilization of M(12)L(24) spherical frameworks through the cooperation of 48 Pd(II)-pyridine interactions. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6064-5	16.4	142
201	Direct observation of the labile imine formation through single-crystal-to-single-crystal reactions in the pores of a porous coordination network. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1578-9	16.4	139
200	Assembly of silver(I) polymers with helical and lamellar structures. <i>Chemistry - A European Journal</i> , 2000 , 6, 427-31	4.8	138
199	The crystalline sponge method updated. <i>IUCrJ</i> , 2016 , 3, 139-51	4.7	137
198	Template synthesis of precisely monodisperse silica nanoparticles within self-assembled organometallic spheres. <i>Nature Chemistry</i> , 2010 , 2, 25-9	17.6	130
197	Switching the interior hydrophobicity of a self-assembled spherical complex through the photoisomerization of confined azobenzene chromophores. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5133-6	16.4	129

- 196 Made-to-Order Assembling of [2]Catenanes from Palladium(II)-Linked Rectangular Molecular Boxes. *Journal of the American Chemical Society*, **1998**, 120, 611-612 16.4 125
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- 194 A two-in-one crystal: uptake of two different guests into two distinct channels of a biporous coordination network. *Angewandte Chemie - International Edition*, **2005**, 44, 1962-4 16.4 122
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- 192 Encapsulation of Large, Neutral Molecules in a Self-Assembled Nanocage Incorporating Six Palladium(II) Ions. *Angewandte Chemie - International Edition*, **1998**, 37, 3142-3144 16.4 118
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- 188 Finite, Spherical Coordination Networks that Self-Organize from 36 Small Components. *Angewandte Chemie*, **2004**, 116, 5739-5743 3.6 113
- 187 Hydrophobic Assembling of a Coordination Nanobowl into a Dimeric Capsule Which Can Accommodate up to Six Large Organic Molecules. *Journal of the American Chemical Society*, **2000**, 122, 2665-2666 16.4 113
- 186 Molecular Paneling via Coordination: Guest-Controlled Assembly of Open Cone and Tetrahedron Structures from Eight Metals and Four Ligands. *Journal of the American Chemical Society*, **2000**, 122, 7150-7151 16.4 110
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- 184 Multicomponent metal-ligand self-assembly. *Current Opinion in Chemical Biology*, **2002**, 6, 757-64 9.7 106
- 183 Preparation and guest-uptake protocol for a porous complex useful for 'crystal-free' crystallography. *Nature Protocols*, **2014**, 9, 246-52 18.8 105
- 182 Electrochemically driven clathration/declathration of ferrocene and its derivatives by a nanometer-sized coordination cage. *Journal of the American Chemical Society*, **2002**, 124, 11570-1 16.4 105
- 181 Self-assembly of a novel macrotricyclic Pd(II) metallocage encapsulating a nitrate ion. *Chemical Communications*, **2001**, 1652-3 5.8 101
- 180 Rectifying Electron-Transport Properties through Stacks of Aromatic Molecules Inserted into a Self-Assembled Cage. *Journal of the American Chemical Society*, **2015**, 137, 5939-47 16.4 100
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- 174 Absolute structure determination of compounds with axial and planar chirality using the crystalline sponge method. *Chemical Science*, **2015**, 6, 3765-3768 9.4 87
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- 172 Single-crystalline molecular flasks: chemical transformation with bulky reagents in the pores of porous coordination networks. *Angewandte Chemie - International Edition*, **2008**, 47, 8030-2 16.4 87
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- 167 Probing Guest Geometry and Dynamics through Host-Guest Interactions. *Angewandte Chemie - International Edition*, **2001**, 40, 1879-1884 16.4 79
- 166 Determination of the Absolute Configuration of the Pseudo-Symmetric Natural Product Elatényne by the Crystalline Sponge Method. *Angewandte Chemie - International Edition*, **2016**, 55, 2678-82 16.4 77
- 165 Coordination-driven folding and assembly of a short peptide into a protein-like two-nanometer-sized channel. *Angewandte Chemie - International Edition*, **2014**, 53, 7228-32 16.4 77
- 164 Enhanced reactivity of twisted amides inside a molecular cage. *Nature Chemistry*, **2020**, 12, 574-578 17.6 77
- 163 Recognition of polyfluorinated compounds through self-aggregation in a cavity. *Journal of the American Chemical Society*, **2014**, 136, 1786-8 16.4 76
- 162 Dramatic structural rearrangements in porous coordination networks. *Journal of the American Chemical Society*, **2011**, 133, 5853-60 16.4 76
- 161 Development of Unique Chemical Phenomena within Nanometer-Sized, Self-Assembled Coordination Hosts. *Bulletin of the Chemical Society of Japan*, **2010**, 83, 609-618 5.1 75

160	Self- and hetero-recognition in the guest-controlled assembly of Pd(II)-linked cages from two different ligands. <i>Chemical Communications</i> , 2000 , 1509-1510	5.8	74
159	Radical C ² H Functionalization of Heteroarenes under Electrochemical Control. <i>Angewandte Chemie</i> , 2014 , 126, 12062-12065	3.6	73
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157	Peptide [4]Catenane by Folding and Assembly. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4519-4521	16.4	67
156	Where is the Oxygen? Structural Analysis of Humulene Oxidation Products by the Crystalline Sponge Method. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9033-7	16.4	66
155	Folding a de novo designed peptide into an alpha-helix through hydrophobic binding by a bowl-shaped host. <i>Angewandte Chemie - International Edition</i> , 2005 , 45, 241-4	16.4	62
154	X-ray snapshot observation of palladium-mediated aromatic bromination in a porous complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6892-5	16.4	61
153	Temporary and permanent trapping of the metastable twisted conformer of an overcrowded chromic alkene via encapsulation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17420-3	16.4	61
152	Self-Assembly of Giant Spherical Liquid-Crystalline Complexes and Formation of Nanostructured Dynamic Gels that Exhibit Self-Healing Properties. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14085-14089	16.4	60
151	Site-Selective Functionalization of Linear Diterpenoids through U-Shaped Folding in a Confined Artificial Cavity. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5112-5115	16.4	59
150	Compressed Corannulene in a Molecular Cage. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1561-4	16.4	58
149	X-ray Structure Analysis of Ozonides by the Crystalline Sponge Method. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10140-2	16.4	56
148	Peptide-coated, self-assembled M12L24 coordination spheres and their immobilization onto an inorganic surface. <i>Chemical Science</i> , 2010 , 1, 68	9.4	55
147	Conformational preferences of short peptide fragments. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8695-8	16.4	55
146	Metal driven self-assembly of pyridine appended ligands with cis-protected/naked Pd(II) ion: a comparative study. <i>Dalton Transactions</i> , 2003 , 2750	4.3	55
145	Noncovalent tailoring of the binding pocket of self-assembled cages by remote bulky ancillary groups. <i>Journal of the American Chemical Society</i> , 2013 , 135, 613-5	16.4	53
144	A molecular capsule network: guest encapsulation and control of Diels-Alder reactivity. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8912-4	16.4	53
143	Molecular Paneling by Coordination: An M ₄ L ₆ Hexahedral Molecular Capsule having Clefts for Reversible Guest Inclusion. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2620-2622	16.4	52

- 142 Metal-Peptide Torus Knots from Flexible Short Peptides. *CheM*, **2020**, 6, 294-303 16.2 52
- 141 Repeated evolution of cytochrome P450-mediated spiroketal steroid biosynthesis in plants. *Nature Communications*, **2019**, 10, 3206 17.4 51
- 140 Cavity-Directed Chromism of Phthalein Dyes. *Journal of the American Chemical Society*, **2015**, 137, 7043-6 16.4 51
- 139 Diels-Alder via molecular recognition in a crystalline molecular flask. *Journal of the American Chemical Society*, **2011**, 133, 16806-8 16.4 51
- 138 Capsule-Capsule Conversion by Guest Encapsulation. *Angewandte Chemie - International Edition*, **2016**, 55, 2063-6 16.4 51
- 137 Structure determination of microbial metabolites by the crystalline sponge method. *Chemical Science*, **2016**, 7, 3910-3913 9.4 48
- 136 In Situ Observation of Thiol Michael Addition to a Reversible Covalent Drug in a Crystalline Sponge. *Angewandte Chemie - International Edition*, **2016**, 55, 4919-23 16.4 48
- 135 Halogen-Bond-Assisted Guest Inclusion in a Synthetic Cavity. *Angewandte Chemie - International Edition*, **2015**, 54, 8411-4 16.4 47
- 134 Undeniable Confirmation of the syn-Addition Mechanism for Metal-Free Diboration by Using the Crystalline Sponge Method. *Chemistry - A European Journal*, **2016**, 22, 4723-6 4.8 47
- 133 Metal-peptide rings form highly entangled topologically inequivalent frameworks with the same ring- and crossing-numbers. *Nature Communications*, **2019**, 10, 921 17.4 45
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- 131 A cationic guest in a 24+ cationic host. *Journal of the American Chemical Society*, **2003**, 125, 9260-1 16.4 44
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- 129 Astellifadiene: Structure Determination by NMR Spectroscopy and Crystalline Sponge Method, and Elucidation of its Biosynthesis. *Angewandte Chemie*, **2016**, 128, 5879-5882 3.6 43
- 128 Selective Enclathration of Linear Alkanols by a Self-assembled Coordination Cage. Application to the Catalytic Wacker Oxidation of Alkenols. *Chemistry Letters*, **2005**, 34, 1392-1393 1.7 43
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- 126 Phosphine-Catalyzed Umpolung Domino Reaction of Allenic Esters: Facile Synthesis of Tetrahydrobenzofuranones Bearing a Chiral Tetrasubstituted Stereogenic Carbon Center. *Angewandte Chemie*, **2015**, 127, 15731-15735 3.6 42
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123	Photo-induced self-assembly of Pt(II)-linked rings and cages via the photolabilization of a Pt(II)py bond. <i>New Journal of Chemistry</i> , 2009 , 33, 264	3.6 41
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121	Incarceration of (PdO) _n and Pd(n) clusters by cage-templated synthesis of hollow silica nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5893-6	16.4 40
120	Chiral Crystalline Sponges for the Absolute Structure Determination of Chiral Guests. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11341-11344	16.4 38
119	Cycloelatanene A and B: absolute configuration determination and structural revision by the crystalline sponge method. <i>Chemical Science</i> , 2017 , 8, 1547-1550	9.4 38
118	Photo-driven anti-Markovnikov alkyne hydration in self-assembled hollow complexes. <i>Chemical Communications</i> , 2011 , 47, 10960-2	5.8 38
117	Einlagerung von großen, neutralen Molekülen in einem durch Selbstorganisation gebildeten Nanokäfig, der sechs PdII-Ionen enthält. <i>Angewandte Chemie</i> , 1998 , 110, 3327-3329	3.6 38
116	Characterization of encapsulating supramolecules by using CSI-MS with ionization-promoting reagents. <i>Organic Letters</i> , 2001 , 3, 1601-4	6.2 37
115	A saccharide-based crystalline sponge for hydrophilic guests. <i>Chemical Communications</i> , 2016 , 52, 7013-5.8	37
114	A Red Algal Bourbonane Sesquiterpene Synthase Defined by Microgram-Scale NMR-Coupled Crystalline Sponge X-ray Diffraction Analysis. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16838-16844 ^{16.4}	36
113	Selbstorganisation von zehn kleinen molekularen Komponenten zu nanometergroßen, makrotricyclischen Komplexen. <i>Angewandte Chemie</i> , 1998 , 110, 2192-2196	3.6 36
112	Peptide recognition: encapsulation and alpha-helical folding of a nine-residue peptide within a hydrophobic dimeric capsule of a bowl-shaped host. <i>Chemistry - A European Journal</i> , 2006 , 12, 3211-7	4.8 36
111	Inducing alpha-helices in short oligopeptides through binding by an artificial hydrophobic cavity. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5564-5	16.4 35
110	Chirality enrichment through the heterorecognition of enantiomers in an achiral coordination host. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3874-6	16.4 35
109	Structural Elucidation of Trace Amounts of Volatile Compounds Using the Crystalline Sponge Method. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 1057-1061	4.5 34
108	Solid-liquid interface synthesis of microcrystalline porous coordination networks. <i>Chemical Communications</i> , 2010 , 46, 6515-7	5.8 34
107	A Two-in-One Crystal: Uptake of Two Different Guests into Two Distinct Channels of a Biporous Coordination Network. <i>Angewandte Chemie</i> , 2005 , 117, 1998-2000	3.6 34

106	Determination of the absolute configuration of compounds bearing chiral quaternary carbon centers using the crystalline sponge method. <i>Chemical Science</i> , 2017 , 8, 5132-5136	9.4	32
105	A Self-Assembled Spherical Complex Displaying a Gangliosidic Glycan Cluster Capable of Interacting with Amyloidogenic Proteins. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8435-9	16.4	32
104	Self-Assembly of M24L48 Polyhedra Based on Empirical Prediction. <i>Angewandte Chemie</i> , 2012 , 124, 3215-3217	5.3	32
103	A [2]catenane quantitatively assembled via copper(I) and palladium(II) coordination. <i>Chemical Communications</i> , 2001 , 1182-1183	5.8	32
102	X-ray Structure Analysis of N-Containing Nucleophilic Compounds by the Crystalline Sponge Method. <i>Chemistry - A European Journal</i> , 2017 , 23, 15035-15040	4.8	31
101	A metal-peptide capsule by multiple ring threading. <i>Nature Communications</i> , 2019 , 10, 5687	17.4	31
100	A dimer-to-dimer metal-metal linear aggregate from a (E1,3-NO3)2 double-bridged cis-(2,2'-bipyridine)palladium(II) cofacial dimer. <i>Dalton Transactions RSC</i> , 2001 , 3415-3416		30
99	Self-Assembly of Coordination Polyhedra with Highly Entangled Faces Induced by Metal-Acetylene Interactions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3450-3454	16.4	30
98	Polymerisation of an Anionic Monomer in a Self-Assembled M12L24 Coordination Sphere with Cationic Interior. <i>Supramolecular Chemistry</i> , 2008 , 20, 81-94	1.8	29
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