Lukasz Wojtas

List of Publications by Citations

257 papers	17,667 citations	72 h-index	126 g-index
290 ext. papers	19,790 ext. citations	8.7 avg, IF	6.84 L-index

#	Paper	IF	Citations
257	Porous materials with optimal adsorption thermodynamics and kinetics for CO2 separation. *Nature*, **2013**, 495, 80-4	50.4	1677
256	Enhanced CO2 binding affinity of a high-uptake rht-type metal-organic framework decorated with acylamide groups. *Journal of the American Chemical Society*, **2011**, 133, 748-51	16.4	668
255	Supermolecular building blocks (SBBs) for the design and synthesis of highly porous metal-organic frameworks. *Journal of the American Chemical Society*, **2008**, 130, 1833-5	16.4	586
254	Postsynthetically Modified Covalent Organic Frameworks for Efficient and Effective Mercury Removal. *Journal of the American Chemical Society*, **2017**, 139, 2786-2793	16.4	573
253	Crystal engineering of an nbo topology metal-organic framework for chemical fixation of CO2 under ambient conditions. *Angewandte Chemie - International Edition*, **2014**, 53, 2615-9	16.4	454
252	Tunable rare-earth fcu-MOFs: a platform for systematic enhancement of CO2 adsorption energetics and uptake. *Journal of the American Chemical Society*, **2013**, 135, 7660-7	16.4	406
251	Temperature and concentration control over interpenetration in a metal-organic material. *Journal of the American Chemical Society*, **2009**, 131, 17040-1	16.4	353
250	Discovery and introduction of a (3,18)-connected net as an ideal blueprint for the design of metal-organic frameworks. *Nature Chemistry*, **2014**, 6, 673-80	17.6	333
249	Supermolecular building blocks (SBBs) and crystal design: 12-connected open frameworks based on a molecular cubohemioctahedron. *Journal of the American Chemical Society*, **2008**, 130, 1560-1	16.4	291
248	Covalent Organic Frameworks as a Decorating Platform for Utilization and Affinity Enhancement of Chelating Sites for Radionuclide Sequestration. *Advanced Materials*, **2018**, 30, e1705479	24	266
247	Highly selective carbon dioxide uptake by [Cu(bpy-n)2(SiF6)] (bpy-1 = 4,4'-bipyridine; bpy-2 = 1,2-bis(4-pyridyl)ethene). *Journal of the American Chemical Society*, **2012**, 134, 3663-6	16.4	263
246	Cocrystals of quercetin with improved solubility and oral bioavailability. *Molecular Pharmaceutics*, **2011**, 8, 1867-76	5.6	263
245	Templated synthesis, postsynthetic metal exchange, and properties of a porphyrin-encapsulating metal-organic material. *Journal of the American Chemical Society*, **2012**, 134, 924-7	16.4	223
244	Bio-inspired nano-traps for uranium extraction from seawater and recovery from nuclear waste. *Nature Communications*, **2018**, 9, 1644	17.4	197
243	Effects of Crystal Form on Solubility and Pharmacokinetics: A Crystal Engineering Case Study of Lamotrigine. *Crystal Growth and Design*, **2010**, 10, 394-405	3.5	194
242	Experimental evidence for cobalt(III)-carbene radicals: key intermediates in cobalt(II)-based metalloradical cyclopropanation. *Journal of the American Chemical Society*, **2011**, 133, 8518-21	16.4	193
241	A robust molecular porous material with high CO2 uptake and selectivity. *Journal of the American Chemical Society*, **2013**, 135, 10950-3	16.4	192

240	Structure□Stability Relationships in Cocrystal Hydrates: Does the Promiscuity of Water Make Crystalline Hydrates the Nemesis of Crystal Engineering?. *Crystal Growth and Design*, **2010**, 10, 2152-2167	3.5	192
239	A porous metal-metalloporphyrin framework featuring high-density active sites for chemical fixation of CO2 under ambient conditions. *Chemical Communications*, **2014**, 50, 5316-8	5.8	186
238	Selective intramolecular C-H amination through the metalloradical activation of azides: synthesis of 1,3-diamines under neutral and nonoxidative conditions. *Angewandte Chemie - International Edition*, **2010**, 49, 10192-6	16.4	174
237	Quest for zeolite-like metal-organic frameworks: on pyrimidinecarboxylate bis-chelating bridging ligands. *Journal of the American Chemical Society*, **2008**, 130, 3768-70	16.4	172
236	Coformer selection in pharmaceutical cocrystal development: a case study of a meloxicam aspirin cocrystal that exhibits enhanced solubility and pharmacokinetics. *Journal of Pharmaceutical Sciences*, **2011**, 100, 2172-81	3.9	165
235	Cobalt-catalyzed asymmetric cyclopropanation with diazosulfones: rigidification and polarization of ligand chiral environment via hydrogen bonding and cyclization. *Journal of the American Chemical Society*, **2008**, 130, 5042-3	16.4	164
234	Mimicking heme enzymes in the solid state: metal-organic materials with selectively encapsulated heme. *Journal of the American Chemical Society*, **2011**, 133, 10356-9	16.4	159
233	Regioselective synthesis of multisubstituted furans via metalloradical cyclization of alkynes with □diazocarbonyls: construction of functionalized □oligofurans. *Journal of the American Chemical Society*, **2012**, 134, 19981-4	16.4	156
232	Highly asymmetric intramolecular cyclopropanation of acceptor-substituted diazoacetates by Co(II)-based metalloradical catalysis: iterative approach for development of new-generation catalysts. *Journal of the American Chemical Society*, **2011**, 133, 15292-5	16.4	156
231	The unique rht-MOF platform, ideal for pinpointing the functionalization and CO2 adsorption relationship. *Chemical Communications*, **2012**, 48, 1455-7	5.8	154
230	Zeolite-like metal-organic frameworks (ZMOFs) based on the directed assembly of finite metal-organic cubes (MOCs). *Journal of the American Chemical Society*, **2009**, 131, 17753-5	16.4	148
229	Template-directed synthesis of nets based upon octahemioctahedral cages that encapsulate catalytically active metalloporphyrins. *Journal of the American Chemical Society*, **2012**, 134, 928-33	16.4	147
228	Synthesis of a honeycomb-like Cu-based metal-organic framework and its carbon dioxide adsorption behaviour. *Dalton Transactions*, **2013**, 42, 2392-8	4.3	143
227	Crystal engineering of a microporous, catalytically active fcu topology MOF using a custom-designed metalloporphyrin linker. *Angewandte Chemie - International Edition*, **2012**, 51, 10082-5	16.4	141
226	The next chapter in MOF pillaring strategies: trigonal heterofunctional ligands to access targeted high-connected three dimensional nets, isoreticular platforms. *Journal of the American Chemical Society*, **2011**, 133, 17532-5	16.4	139
225	Three-dimensional porous metal-metalloporphyrin framework consisting of nanoscopic polyhedral cages. *Journal of the American Chemical Society*, **2011**, 133, 16322-5	16.4	138
224	Quest for highly connected metal-organic framework platforms: rare-earth polynuclear clusters versatility meets net topology needs. *Journal of the American Chemical Society*, **2015**, 137, 5421-30	16.4	135
223	Cobalt(II)-catalyzed intramolecular C-H amination with phosphoryl azides: formation of 6- and 7-membered cyclophosphoramidates. *Organic Letters*, **2010**, 12, 1248-51	6.2	129

222	Enantioselective cyclopropenation of alkynes with acceptor/acceptor-substituted diazo reagents via Co(II)-based metalloradical catalysis. *Journal of the American Chemical Society*, **2011**, 133, 3304-7	16.4	126
221	Asymmetric Radical Cyclopropanation of Alkenes with In Situ-Generated Donor-Substituted Diazo Reagents via Co(II)-Based Metalloradical Catalysis. *Journal of the American Chemical Society*, **2017**, 139, 1049-1052	16.4	118
220	Synthesis of a Chiral Crystal Form of MOF-5, CMOF-5, by Chiral Induction. *Journal of the American Chemical Society*, **2015**, 137, 15406-9	16.4	116
219	Effective synthesis of chiral N-fluoroaryl aziridines through enantioselective aziridination of alkenes with fluoroaryl azides. *Angewandte Chemie - International Edition*, **2013**, 52, 5309-13	16.4	113
218	From metal-organic squares to porous zeolite-like supramolecular assemblies. *Journal of the American Chemical Society*, **2010**, 132, 18038-41	16.4	113
217	Network diversity through decoration of trigonal-prismatic nodes: two-step crystal engineering of cationic metal-organic materials. *Angewandte Chemie - International Edition*, **2011**, 50, 11421-4	16.4	110
216	Hierarchy of Supramolecular Synthons: Persistent Hydrogen Bonds Between Carboxylates and Weakly Acidic Hydroxyl Moieties in Cocrystals of Zwitterions. *Crystal Growth and Design*, **2010**, 10, 3568-3584	3.5	108
215	On demand: the singular rht net, an ideal blueprint for the construction of a metal-organic framework (MOF) platform. *Angewandte Chemie - International Edition*, **2012**, 51, 10099-103	16.4	107
214	Imparting amphiphobicity on single-crystalline porous materials. *Nature Communications*, **2016**, 7, 13300	17.4	104
213	Versatile rare earth hexanuclear clusters for the design and synthesis of highly-connected -MOFs. *Chemical Science*, **2015**, 6, 4095-4102	9.4	103
212	An asymmetric Diels-Alder reaction catalyzed by chiral phosphate magnesium complexes: highly enantioselective synthesis of chiral spirooxindoles. *Angewandte Chemie - International Edition*, **2013**, 52, 4628-32	16.4	103
211	Post-synthetic modification of porphyrin-encapsulating metal-organic materials by cooperative addition of inorganic salts to enhance CO2/CH4 selectivity. *Angewandte Chemie - International Edition*, **2012**, 51, 9330-4	16.4	102
210	Hybrid Ultra-Microporous Materials for Selective Xenon Adsorption and Separation. *Angewandte Chemie - International Edition*, **2016**, 55, 8285-9	16.4	100
209	Interpenetrating Metal-Metalloporphyrin Framework for Selective CO2 Uptake and Chemical Transformation of CO2. *Inorganic Chemistry*, **2016**, 55, 7291-4	5.1	99
208	Highly selective CO2 uptake in uninodal 6-connected "mmo" nets based upon MO4(2-) (M = Cr, Mo) pillars. *Journal of the American Chemical Society*, **2012**, 134, 19556-9	16.4	99
207	Supramolecular Architectures of Meloxicam Carboxylic Acid Cocrystals, a Crystal Engineering Case Study. *Crystal Growth and Design*, **2010**, 10, 4401-4413	3.5	98
206	Putting the squeeze on CH4 and CO2 through control over interpenetration in diamondoid nets. *Journal of the American Chemical Society*, **2014**, 136, 5072-7	16.4	96
205	A Metal-Organic Framework Based Methane Nano-trap for the Capture of Coal-Mine Methane. *Angewandte Chemie - International Edition*, **2019**, 58, 10138-10141	16.4	92

204	The quest for modular nanocages: tbo-MOF as an archetype for mutual substitution, functionalization, and expansion of quadrangular pillar building blocks. *Journal of the American Chemical Society*, **2011**, 133, 14204-7	16.4	91
203	Stereoselective radical amination of electron-deficient C(sp3)-H bonds by Co(II)-based metalloradical catalysis: direct synthesis of □-amino acid derivatives via □C-H amination. *Organic Letters*, **2012**, 14, 5158-61	6.2	89
202	Stereoselective Radical C-H Alkylation with Acceptor/Acceptor-Substituted Diazo Reagents via Co(II)-Based Metalloradical Catalysis. *Chemical Science*, **2015**, 6, 1219-1224	9.4	88
201	Asymmetric Radical Bicyclization of Allyl Azidoformates via Cobalt(II)-Based Metalloradical Catalysis. *Journal of the American Chemical Society*, **2017**, 139, 9164-9167	16.4	88
200	Stepwise transformation of the molecular building blocks in a porphyrin-encapsulating metal-organic material. *Journal of the American Chemical Society*, **2013**, 135, 5982-5	16.4	88
199	Crystal Engineering of an nbo Topology Metal□Organic Framework for Chemical Fixation of CO2 under Ambient Conditions. *Angewandte Chemie*, **2014**, 126, 2653-2657	3.6	87
198	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
197	Cobalt(II)-catalyzed asymmetric olefin cyclopropanation with □-ketodiazoacetates. *Angewandte Chemie - International Edition*, **2013**, 52, 11857-61	16.4	87
196	A family of porous lonsdaleite-e networks obtained through pillaring of decorated kagome□lattice sheets. *Journal of the American Chemical Society*, **2013**, 135, 14016-9	16.4	87
195	Chemoselective intramolecular allylic C□H aminationversus CC aziridination through Co(II)-based metalloradical catalysis. *Chemical Science*, **2011**, 2, 2361	9.4	87
194	Vertex-directed self-assembly of a high symmetry supermolecular building block using a custom-designed porphyrin. *Chemical Science*, **2012**, 3, 2823	9.4	86
193	Quest for highly porous metal-metalloporphyrin framework based upon a custom-designed octatopic porphyrin ligand. *Chemical Communications*, **2012**, 48, 7173-5	5.8	85
192	A metal-metalloporphyrin framework based on an octatopic porphyrin ligand for chemical fixation of CO with aziridines. *Chemical Communications*, **2018**, 54, 1170-1173	5.8	78
191	Formation of a metalloporphyrin-based nanoreactor by postsynthetic metal-ion exchange of a polyhedral-cage containing a metal-metalloporphyrin framework. *Chemistry - A European Journal*, **2013**, 19, 3297-301	4.8	75
190	Structural Insight into Guest Binding Sites in a Porous Homochiral Metal-Organic Material. *Journal of the American Chemical Society*, **2015**, 137, 12045-9	16.4	74
189	Asymmetric Induction and Enantiodivergence in Catalytic Radical C-H Amination via Enantiodifferentiative H-Atom Abstraction and Stereoretentive Radical Substitution. *Journal of the American Chemical Society*, **2019**, 141, 12388-12396	16.4	74
188	Catalytic Radical Process for Enantioselective Amination of C(sp)-H Bonds. *Angewandte Chemie - International Edition*, **2018**, 57, 16837-16841	16.4	74
187	A pillared metal-organic framework incorporated with 1,2,3-triazole moieties exhibiting remarkable enhancement of CO2 uptake. *Chemical Communications*, **2012**, 48, 8898-900	5.8	73

186	Chiral phosphoric acid-catalyzed addition of thiols to N-acyl imines: access to chiral N,S-acetals. *Organic Letters*, **2011**, 13, 4822-5	6.2	72
185	Silver-Free Palladium-Catalyzed sp(3) and sp(2) C-H Alkynylation Promoted by a 1,2,3-Triazole Amine Directing Group. *Organic Letters*, **2016**, 18, 2970-3	6.2	71
184	Precise Molecular Fission and Fusion: Quantitative Self-Assembly and Chemistry of a Metallo-Cuboctahedron. *Angewandte Chemie - International Edition*, **2015**, 54, 9224-9	16.4	70
183	2:1 cocrystals of homochiral and achiral amino acid zwitterions with Li+ salts: water-stable zeolitic and diamondoid metal-organic materials. *Journal of the American Chemical Society*, **2011**, 133, 9224-7	16.4	68
182	Intramolecular 1,5-C(sp)-H Radical Amination via Co(II)-Based Metalloradical Catalysis for Five-Membered Cyclic Sulfamides. *Chemical Science*, **2016**, 7, 6934-6939	9.4	68
181	Microporous Heptazine Functionalized (3,24)-Connected rht-Metal□Organic Framework: Synthesis, Structure, and Gas Sorption Analysis. *Crystal Growth and Design*, **2014**, 14, 414-418	3.5	67
180	Chiral phosphoric acid catalyzed peroxidation of imines. *Angewandte Chemie - International Edition*, **2010**, 49, 6589-91	16.4	66
179	A Chiral Metal-Organic Material that Enables Enantiomeric Identification and Purification. *CheM*, **2017**, 3, 281-289	16.2	65
178	Remote Stabilization of Copper Paddlewheel Based Molecular Building Blocks in Metal□Organic Frameworks. *Chemistry of Materials*, **2015**, 27, 2144-2151	9.6	64
177	Pore environment engineering in metal□organic frameworks for efficient ethane/ethylene separation. *Journal of Materials Chemistry A*, **2019**, 7, 13585-13590	13	63
176	Helical Sulfono-□AApeptides with Aggregation-Induced Emission and Circularly Polarized Luminescence. *Journal of the American Chemical Society*, **2019**, 141, 12697-12706	16.4	63
175	Enhancement of CO2 selectivity in a pillared pcu MOM platform through pillar substitution. *Chemical Communications*, **2013**, 49, 1606-8	5.8	63
174	Intermolecular Homopropargyl Alcohol Addition to Alkyne and a Sequential 1,6-Enyne Cycloisomerization with Triazole-Gold Catalyst. *Journal of the American Chemical Society*, **2016**, 138, 3994-7	16.4	61
173	Improving lithium therapeutics by crystal engineering of novel ionic cocrystals. *Molecular Pharmaceutics*, **2013**, 10, 4728-38	5.6	60
172	Organic□inorganic hybrid polyhedra that can serve as supermolecular building blocks. *Chemical Science*, **2014**, 5, 927-931	9.4	58
171	Programming Covalent Organic Frameworks for Photocatalysis: Investigation of Chemical and Structural Variations. *Matter*, **2020**, 2, 416-427	12.7	57
170	Selective Intramolecular C?H Amination through the Metalloradical Activation of Azides: Synthesis of 1,3-Diamines under Neutral and Nonoxidative Conditions. *Angewandte Chemie*, **2010**, 122, 10390-10394	16	55
169	Anionic Metal□Organic Framework for Selective Dye Removal and CO2 Fixation. *European Journal of Inorganic Chemistry*, **2016**, 2016, 4373-4377	2.3	55

168	Enantioselective Radical Construction of 5-Membered Cyclic Sulfonamides by Metalloradical C-H Amination. *Journal of the American Chemical Society*, **2019**, 141, 18160-18169	16.4	54
167	Physical Stability Enhancement and Pharmacokinetics of a Lithium Ionic Cocrystal with Glucose. *Crystal Growth and Design*, **2014**, 14, 6135-6142	3.5	54
166	Crystal Engineering of Isostructural Quaternary Multicomponent Crystal Forms of Olanzapine. *Crystal Growth and Design*, **2012**, 12, 4194-4201	3.5	52
165	Selective Radical Amination of Aldehydic C(sp)-H Bonds with Fluoroaryl Azides via Co(II)-Based Metalloradical Catalysis: Synthesis of -Fluoroaryl Amides from Aldehydes under Neutral and Nonoxidative Conditions. *Chemical Science*, **2014**, 5, 2422-2427	9.4	51
164	Cationic ethylzinc compound: a benzene complex with catalytic activity in hydroamination and hydrosilylation reactions. *Inorganic Chemistry*, **2011**, 50, 11300-2	5.1	51
163	Terpyridine-Based, Flexible Tripods: From a Highly Symmetric Nanosphere to Temperature-Dependent, Irreversible, 3D Isomeric Macromolecular Nanocages. *Journal of the American Chemical Society*, **2017**, 139, 3012-3020	16.4	50
162	Robust Corrole-Based Metal-Organic Frameworks with Rare 9-Connected Zr/Hf-Oxo Clusters. *Journal of the American Chemical Society*, **2019**, 141, 14443-14450	16.4	48
161	Ruthenium(II) tris(2,2'-bipyridine)-templated zinc(II) 1,3,5-tris(4-carboxyphenyl)benzene metal organic frameworks: structural characterization and photophysical properties. *Inorganic Chemistry*, **2014**, 53, 160-6	5.1	47
160	Two homochiral organocatalytic metal organic materials with nanoscopic channels. *Chemical Communications*, **2013**, 49, 7693-5	5.8	47
159	Porous double-walled metal triazolate framework based upon a bifunctional ligand and a pentanuclear zinc cluster exhibiting selective CO2 uptake. *Inorganic Chemistry*, **2012**, 51, 4423-5	5.1	47
158	Ground- and excited-state properties of Zn(II) tetrakis(4-tetramethylpyridyl) pophyrin specifically encapsulated within a Zn(II) HKUST metal-organic framework. *Journal of Physical Chemistry A*, **2011**, 115, 11519-24	2.8	47
157	Intramolecular Radical Aziridination of Allylic Sulfamoyl Azides by Cobalt(II)-Based Metalloradical Catalysis: Effective Construction of Strained Heterobicyclic Structures. *Angewandte Chemie - International Edition*, **2016**, 55, 11604-8	16.4	46
156	Photophysical studies of Ru(II)tris(2,2'-bipyridine) confined within a Zn(II)-trimesic acid polyhedral metal-organic framework. *Journal of Physical Chemistry A*, **2012**, 116, 7830-5	2.8	44
155	Topology meets MOF chemistry for pore-aperture fine tuning: ftw-MOF platform for energy-efficient separations via adsorption kinetics or molecular sieving. *Chemical Communications*, **2018**, 54, 6404-6407	5.8	44
154	Two rare indium-based porous metal□metalloporphyrin frameworks exhibiting interesting CO2 uptake. *CrystEngComm*, **2013**, 15, 9320	3.3	43
153	Porous metal□organic framework based on a macrocyclic tetracarboxylate ligand exhibiting selective CO2 uptake. *CrystEngComm*, **2012**, 14, 6115	3.3	43
152	Metalloradical activation of □-formyldiazoacetates for the catalytic asymmetric radical cyclopropanation of alkenes. *Chemical Science*, **2017**, 8, 4347-4351	9.4	42
151	The local electric field favours more than exposed nitrogen atoms on CO2 capture: a case study on the rht-type MOF platform. *Chemical Communications*, **2015**, 51, 9636-9	5.8	42

150	A Corrole-Based Covalent Organic Framework Featuring Desymmetrized Topology. *Angewandte Chemie - International Edition*, **2020**, 59, 4354-4359	16.4	42
149	Hydrogen Bond Hierarchy: Persistent Phenol□□Chloride Hydrogen Bonds in the Presence of Carboxylic Acid Moieties. *Crystal Growth and Design*, **2015**, 15, 4341-4354	3.5	41
148	Highly Efficient and Stereoselective Thioallylation of Alkynes: Possible Gold Redox Catalysis with No Need for a Strong Oxidant. *Angewandte Chemie - International Edition*, **2018**, 57, 6915-6920	16.4	40
147	Computational Studies of CO2 Sorption and Separation in an Ultramicroporous Metal□Organic Material. *Journal of Physical Chemistry C*, **2013**, 117, 17687-17698	3.8	40
146	Right-Handed Helical Foldamers Consisting of De Novo d-AApeptides. *Journal of the American Chemical Society*, **2017**, 139, 7363-7369	16.4	39
145	Hydrogen-Bonding-Driven 3D Supramolecular Assembly of Peptidomimetic Zipper. *Journal of the American Chemical Society*, **2018**, 140, 5661-5665	16.4	39
144	Pillar substitution modulates CO2 affinity in "mmo" topology networks. *Chemical Communications*, **2013**, 49, 9809-11	5.8	39
143	Polymorphism in Multiple Component Crystals: Forms III and IV of Gallic Acid Monohydrate. *Crystal Growth and Design*, **2011**, 11, 964-966	3.5	39
142	Two-step crystal engineering of porous nets from [Cr3(□-O)(RCO2)6] and [Cu3(□-Cl)(RNH2)6Cl6] molecular building blocks. *Chemical Communications*, **2013**, 49, 8154-6	5.8	38
141	Insight into the construction of metal□rganic polyhedra: metal□rganic cubes as a case study. *Chemical Science*, **2011**, 2, 1695	9.4	38
140	Gold-Catalyzed Oxidative Coupling of Alkynes toward the Synthesis of Cyclic Conjugated Diynes. *CheM*, **2018**, 4, 1983-1993	16.2	37
139	Facilitating Gold Redox Catalysis with Electrochemistry: An Efficient Chemical-Oxidant-Free Approach. *Angewandte Chemie - International Edition*, **2019**, 58, 17226-17230	16.4	37
138	Consequences of Partial Flexibility in 1,3-Benzenedicarboxylate Linkers: Kagom□Lattice and NbO Supramolecular Isomers from Complexation of a Bulky 1,3-Benzenedicarboxylate to Cu(II) Paddlewheel Moieties. *Crystal Growth and Design*, **2011**, 11, 1441-1445	3.5	37
137	Pd-catalyzed C4-olefination of oxazoles via C-H bond activation: divergent synthesis of functionalized amino alcohol and amino acid derivatives. *Organic Letters*, **2011**, 13, 5040-3	6.2	36
136	Quest for a highly connected robust porous metal-organic framework on the basis of a bifunctional linear linker and a rare heptanuclear zinc cluster. *Chemical Communications*, **2013**, 49, 10516-8	5.8	35
135	An Asymmetric Diels□Alder Reaction Catalyzed by Chiral Phosphate Magnesium Complexes: Highly Enantioselective Synthesis of Chiral Spirooxindoles. *Angewandte Chemie*, **2013**, 125, 4726-4730	3.6	34
134	Photoinduced inter-cavity electron transfer between Ru(II)tris(2,2?-bipyridne) and Co(II)tris(2,2?-bipyridine) Co-encapsulated within a Zn(II)-trimesic acid metal organic framework. *Journal of Materials Chemistry A*, **2013**, 1, 14133	13	34
133	Effective Synthesis of Chiral N-Fluoroaryl Aziridines through Enantioselective Aziridination of Alkenes with Fluoroaryl Azides. *Angewandte Chemie*, **2013**, 125, 5417-5421	3.6	34

132	Next-Generation D -Symmetric Chiral Porphyrins for Cobalt(II)-Based Metalloradical Catalysis: Catalyst Engineering by Distal Bridging. *Angewandte Chemie - International Edition*, **2019**, 58, 2670-2674	16.4	33
131	Synthesis and Characterization of Bulky Cationic Arylalkylaluminum Compounds. *Organometallics*, **2011**, 30, 2563-2570	3.8	32
130	De Novo Left-Handed Synthetic Peptidomimetic Foldamers. *Angewandte Chemie - International Edition*, **2018**, 57, 9916-9920	16.4	31
129	Chiral phosphoric acid catalyzed addition of dihydropyrans to N-acyl imines: stereocontrolled access to enantioenriched spirocyclic oxazoletetrahydropyrans with three contiguous stereocenters. *Organic Letters*, **2010**, 12, 1960-3	6.2	31
128	Synthesis and biological evaluation of some novel diastereoselective benzothiazole lactam conjugates. *European Journal of Medicinal Chemistry*, **2018**, 143, 283-291	6.8	31
127	A new family of anionic organic-inorganic hybrid doughnut-like nanostructures. *Chemical Communications*, **2015**, 51, 9223-6	5.8	30
126	Crystal engineering of multiple-component organic solids: Pharmaceutical cocrystals of tadalafil with persistent hydrogen bonding motifs. *CrystEngComm*, **2012**, 14, 2377-2380	3.3	30
125	Gaining Insights on the H2Sorbent Interactions: Robust soc-MOF Platform as a Case Study. *Chemistry of Materials*, **2016**, 28, 7353-7361	9.6	30
124	Modulation of Water Vapor Sorption by a Fourth-Generation Metal-Organic Material with a Rigid Framework and Self-Switching Pores. *Journal of the American Chemical Society*, **2018**, 140, 12545-12552	16.4	30
123	An effective strategy to boost the robustness of metal-organic frameworks via introduction of size-matching ligand braces. *Chemical Communications*, **2016**, 52, 1971-4	5.8	29
122	Rationally Designed Nitrogen-Rich MetalOrganic Cube Material: An Efficient CO2 Adsorbent and H2 Confiner. *Crystal Growth and Design*, **2014**, 14, 739-746	3.5	29
121	Cocrystal controlled solid-state synthesis of a rigid tetracarboxylate ligand that pillars both square grid and Kagomlattice layers. *CrystEngComm*, **2011**, 13, 3130-3133	3.3	29
120	Orally bioavailable 6-chloro-7-methoxy-4(1H)-quinolones efficacious against multiple stages of Plasmodium. *Journal of Medicinal Chemistry*, **2014**, 57, 8860-79	8.3	28
119	Network Diversity through Decoration of Trigonal-Prismatic Nodes: Two-Step Crystal Engineering of Cationic MetalOrganic Materials. *Angewandte Chemie*, **2011**, 123, 11623-11626	3.6	28
118	Orthogonal Halogen-Bonding-Driven 3D Supramolecular Assembly of Right-Handed Synthetic Helical Peptides. *Angewandte Chemie - International Edition*, **2019**, 58, 7778-7782	16.4	27
117	Sulfono-AApeptides as a new class of nonnatural helical foldamer. *Chemistry - A European Journal*, **2015**, 21, 2501-7	4.8	27
116	A calixarene based metal organic material, calixMOM, that binds potassium cations. *Chemical Communications*, **2013**, 49, 8353-5	5.8	27
115	Crystal Engineering of a Microporous, Catalytically Active fcu Topology MOF Using a Custom-Designed Metalloporphyrin Linker. *Angewandte Chemie*, **2012**, 124, 10229-10232	3.6	27

114	Hybrid Ultra-Microporous Materials for Selective Xenon Adsorption and Separation. *Angewandte Chemie*, **2016**, 128, 8425-8429	3.6	27
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