

Adam J Matzger

List of Publications by Citations

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248
papers

23,998
citations

65
h-index

151
g-index

265
ext. papers

26,434
ext. citations

8.2
avg. IF

7.33
L-index

#	Paper	IF	Citations
248	Porous, crystalline, covalent organic frameworks. <i>Science</i> , 2005 , 310, 1166-70	33.3	4039
247	A route to high surface area, porosity and inclusion of large molecules in crystals. <i>Nature</i> , 2004 , 427, 523-7	50.4	2337
246	Dramatic tuning of carbon dioxide uptake via metal substitution in a coordination polymer with cylindrical pores. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10870-1	16.4	1425
245	Exceptional H ₂ saturation uptake in microporous metal-organic frameworks. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3494-5	16.4	1079
244	A crystalline mesoporous coordination copolymer with high microporosity. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 677-80	16.4	449
243	A porous coordination copolymer with over 5000 m ² /g BET surface area. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4184-5	16.4	420
242	Improved stability and smart-material functionality realized in an energetic cocrystal. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8960-3	16.4	419
241	High Power Explosive with Good Sensitivity: A 2:1 Cocrystal of CL-20:HMX. <i>Crystal Growth and Design</i> , 2012 , 12, 4311-4314	3.5	371
240	Effect of humidity on the performance of microporous coordination polymers as adsorbents for CO ₂ capture. <i>Langmuir</i> , 2011 , 27, 6368-73	4	368
239	On the Nature of Nonplanarity in the [N]Phenylenes. <i>Chemistry - A European Journal</i> , 1999 , 5, 3399-3412	4.8	367
238	Water stability of microporous coordination polymers and the adsorption of pharmaceuticals from water. <i>Langmuir</i> , 2010 , 26, 17198-202	4	364
237	Comparison of the four anhydrous polymorphs of carbamazepine and the crystal structure of form I. <i>Journal of Pharmaceutical Sciences</i> , 2003 , 92, 2260-71	3.9	354
236	Liquid phase adsorption by microporous coordination polymers: removal of organosulfur compounds. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6938-9	16.4	345
235	General principles of pharmaceutical solid polymorphism: a supramolecular perspective. <i>Advanced Drug Delivery Reviews</i> , 2004 , 56, 241-74	18.5	337
234	Crystalline polymorph selection and discovery with polymer heteronuclei. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5512-7	16.4	268
233	MOF@MOF: microporous core-shell architectures. <i>Chemical Communications</i> , 2009 , 6162-4	5.8	242
232	Heterogenization of homogeneous catalysts in metal-organic frameworks via cation exchange. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10586-9	16.4	240

231	Polymorphism in Carbamazepine Cocrystals. <i>Crystal Growth and Design</i> , 2008 , 8, 14-16	3.5	224
230	Enabling cleaner fuels: desulfurization by adsorption to microporous coordination polymers. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14538-43	16.4	222
229	Porous crystal derived from a tricarboxylate linker with two distinct binding motifs. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15740-1	16.4	205
228	The use of polymer heteronuclei for crystalline polymorph selection. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14834-5	16.4	203
227	Synthesis and structure of fused alpha-oligothiophenes with up to seven rings. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10502-3	16.4	197
226	Molecular packing and symmetry of two-dimensional crystals. <i>Accounts of Chemical Research</i> , 2007 , 40, 287-93	24.3	190
225	Energetic-Energetic Cocrystals of Diacetone Diperoxide (DADP): Dramatic and Divergent Sensitivity Modifications via Cocrystallization. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5074-9	16.4	187
224	Cocrystal Engineering of a Prototype Energetic Material: Supramolecular Chemistry of 2,4,6-Trinitrotoluene. <i>Crystal Growth and Design</i> , 2010 , 10, 5341-5347	3.5	172
223	Reconciling the discrepancies between crystallographic porosity and guest access as exemplified by Zn-HKUST-1. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18257-63	16.4	167
222	Linker-directed vertex desymmetrization for the production of coordination polymers with high porosity. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13941-8	16.4	164
221	Microporous coordination polymers as selective sorbents for liquid chromatography. <i>Langmuir</i> , 2009 , 25, 11977-9	4	160
220	Liquid phase separations by crystalline microporous coordination polymers. <i>Chemical Science</i> , 2010 , 1, 293	9.4	156
219	Exceptional hydrogen storage achieved by screening nearly half a million metal-organic frameworks. <i>Nature Communications</i> , 2019 , 10, 1568	17.4	154
218	Highly dispersed palladium(II) in a defective metal-organic framework: application to C-H activation and functionalization. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20138-41	16.4	151
217	Cocrystals of 1,3,5,7-Tetranitro-1,3,5,7-tetrazacyclooctane (HMX). <i>Crystal Growth and Design</i> , 2012 , 12, 3603-3609	3.5	147
216	Two isostructural explosive cocrystals with significantly different thermodynamic stabilities. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6468-71	16.4	147
215	Form IV of carbamazepine. <i>Journal of Pharmaceutical Sciences</i> , 2002 , 91, 1186-90	3.9	146
214	Charge transport parameters of the pentathienoacene crystal. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13072-81	16.4	142

213	Nonamorphism in flufenamic acid and a new record for a polymorphic compound with solved structures. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9872-5	16.4	139
212	Polymer-induced heteronucleation for the discovery of new extended solids. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2553-6	16.4	131
211	Synthesis, Crystal Structure, and Explosive Decomposition of 1,2:5,6:11,12:15,16-Tetrabenz-3,7,9,13,17,19-hexadehydro[20]annulene: Formation of Onion- and Tube-like Closed-Shell Carbon Particles. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2052-2053	16.4	129
210	Catalyst-controlled selectivity in the C-H borylation of methane and ethane. <i>Science</i> , 2016 , 351, 1421-4	33.3	127
209	Coordination copolymerization mediated by Zn ₄ O(CO ₂ R) ₆ metal clusters: a balancing act between statistics and geometry. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15005-10	16.4	127
208	Photochemistry of (Fulvalene)tetracarbonyliruthenium and Its Derivatives: Efficient Light Energy Storage Devices. <i>Journal of the American Chemical Society</i> , 1997 , 119, 6757-6773	16.4	110
207	Polymer-induced heteronucleation of tolfenamic acid: structural investigation of a pentamorph. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4554-5	16.4	108
206	Single-Phase Synthesis of Functionalized Gold Nanoparticles. <i>Chemistry of Materials</i> , 2004 , 16, 3513-3517	3.6	101
205	Effect of ring fusion on the electronic absorption and emission properties of oligothiophenes. <i>Journal of Organic Chemistry</i> , 2003 , 68, 9813-5	4.2	100
204	Enhanced Drug Delivery by Dissolution of Amorphous Drug Encapsulated in a Water Unstable Metal-Organic Framework (MOF). <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16790-16794	16.4	98
203	Coordination Polymers with High Energy Density: An Emerging Class of Explosives. <i>Crystal Growth and Design</i> , 2015 , 15, 5963-5972	3.5	94
202	Ring Fusion Effects on the Solid-State Properties of Oligothiophenes. <i>Chemistry of Materials</i> , 2006 , 18, 3470-3476	9.6	94
201	Balancing gravimetric and volumetric hydrogen density in MOFs. <i>Energy and Environmental Science</i> , 2017 , 10, 2459-2471	35.4	85
200	Core-Shell Structures Arise Naturally During Ligand Exchange in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14841-14844	16.4	85
199	Hydrogen Peroxide Solvates of 2,4,6,8,10,12-Hexanitro-2,4,6,8,10,12-hexaazaisowurtzitane. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13118-13121	16.4	85
198	Raman Spectroscopic Investigation of CH ₄ and N ₂ Adsorption in Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2007 , 19, 3681-3685	9.6	84
197	Selective metal substitution for the preparation of heterobimetallic microporous coordination polymers. <i>Inorganic Chemistry</i> , 2008 , 47, 7942-4	5.1	82
196	The First Metallacyclopentadiene(Alkyne) Complexes and Their Discrete Isomerization to η^4 -Bound Arenes: The Missing Link in the Prevalent Mechanism of Transition Metal Catalyzed Alkyne Cyclotrimerizations, as Exemplified by Cyclopentadienylcobalt. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8217-8218	16.4	80

195	Water sensitivity in Zn ₄ O-based MOFs is structure and history dependent. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2651-7	16.4	79
194	Polymer@MOF@MOF: "grafting from" atom transfer radical polymerization for the synthesis of hybrid porous solids. <i>Chemical Communications</i> , 2015 , 51, 11994-6	5.8	77
193	Two-dimensional crystallization: self-assembly, pseudopolymorphism, and symmetry-independent molecules. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9042-53	16.4	76
192	Design and Synthesis of a Series of Nitrogen-Rich Energetic Cocrystals of 5,5'-Dinitro-2H,2H'-3,3'-bi-1,2,4-triazole (DNBT). <i>Crystal Growth and Design</i> , 2015 , 15, 2545-2549	3.5	74
191	Six different assemblies from one building block: two-dimensional crystallization of an amide amphiphile. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11364-71	16.4	74
190	Phase selection and discovery among five assembly modes in a coordination polymerization. <i>Inorganic Chemistry</i> , 2008 , 47, 7751-6	5.1	73
189	Alkyl-Substituted Thieno[3,2-b]thiophene Polymers and Their Dimeric Subunits. <i>Macromolecules</i> , 2004 , 37, 6306-6315	5.5	71
188	Origin of Long-Term Storage Stability and Nitric Oxide Release Behavior of CarboSil Polymer Doped with S-Nitroso-N-acetyl-D-penicillamine. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22218-22227	9.5	70
187	Gas and liquid phase adsorption in isostructural Cu ₃ [biaryltricarboxylate] ₂ microporous coordination polymers. <i>Chemical Communications</i> , 2011 , 47, 1452-4	5.8	68
186	Synthesis, Crystal Structure, and Polymerization of 1,2:5,6:9,10-Tribenzo-3,7,11,13-tetrahydro[14]annulene. <i>Synlett</i> , 1995 , 1995, 1215-1218	2.2	67
185	Rapid Guest Exchange and Ultra-Low Surface Tension Solvents Optimize Metal-Organic Framework Activation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14618-14621	16.4	66
184	Porous Networks Assembled from Octaphenylsilsesquioxane Building Blocks. <i>Macromolecules</i> , 2010 , 43, 6995-7000	5.5	65
183	A versatile synthetic route to dehydrobenzoannulenes via in situ generation of reactive alkynes. <i>Tetrahedron</i> , 2001 , 57, 3507-3520	2.4	65
182	Structure of and competitive adsorption in alkyl dicarbamate two-dimensional crystals. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4879-87	16.4	63
181	Influence of Coformer Stoichiometric Ratio on Pharmaceutical Cocrystal Dissolution: Three Cocrystals of Carbamazepine/4-Aminobenzoic Acid. <i>Molecular Pharmaceutics</i> , 2016 , 13, 990-5	5.6	62
180	MOF-5-Polystyrene: Direct Production from Monomer, Improved Hydrolytic Stability, and Unique Guest Adsorption. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12099-103	16.4	61
179	On the mechanism of crystalline polymorph selection by polymer heteronuclei. <i>Langmuir</i> , 2011 , 27, 7575-9	4.9	61
178	A framework for predicting surface areas in microporous coordination polymers. <i>Langmuir</i> , 2010 , 26, 5808-14	4	61

177	5,6,11,12,17,18-Hexadehydro-1,4,7,10,13,16-hexaethynyltribenzo[a,e,i]cyclododecene: Synthesis and CpCo-Catalyzed Cycloisomerization to the First Superdelocalized Oligophenylenes. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 2103-2108		61
176	Exceptional surface area from coordination copolymers derived from two linear linkers of differing lengths. <i>Chemical Science</i> , 2012 , 3, 2429	9.4	59
175	Dissecting the behavior of a promiscuous solvate former. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2062-6	16.4	59
174	Raman spectra of hydrogen and deuterium adsorbed on a metal-organic framework. <i>Chemical Physics Letters</i> , 2005 , 411, 516-519	2.5	59
173	Shear-Triggered Crystallization and Light Emission of a Thermally Stable Organic Supercooled Liquid. <i>ACS Central Science</i> , 2015 , 1, 94-102	16.8	58
172	Facile and scalable synthesis of the fused-ring heterocycles thieno[3,2-b]thiophene and thieno[3,2-b]furan. <i>Organic Letters</i> , 2009 , 11, 3144-7	6.2	58
171	Structural and Physicochemical Aspects of Dasatinib Hydrate and Anhydrate phases. <i>Crystal Growth and Design</i> , 2012 , 12, 2122-2126	3.5	57
170	New form discovery for the analgesics flurbiprofen and sulindac facilitated by polymer-induced heteronucleation. <i>Journal of Pharmaceutical Sciences</i> , 2007 , 96, 2978-86	3.9	57
169	Improved Stability and Smart-Material Functionality Realized in an Energetic Cocrystal. <i>Angewandte Chemie</i> , 2011 , 123, 9122-9125	3.6	56
168	Rhodium Hydrogenation Catalysts Supported in Metal Organic Frameworks: Influence of the Framework on Catalytic Activity and Selectivity. <i>ACS Catalysis</i> , 2016 , 6, 3569-3574	13.1	56
167	Cocrystal Engineering of a High Nitrogen Energetic Material. <i>Crystal Growth and Design</i> , 2018 , 18, 219-224	3.5	54
166	A melt castable energetic cocrystal. <i>Chemical Communications</i> , 2017 , 53, 6065-6068	5.8	53
165	Rapid and enhanced activation of microporous coordination polymers by flowing supercritical CO ₂ . <i>Chemical Communications</i> , 2013 , 49, 1419-21	5.8	53
164	Benzocyclynes adhere to Hückel's rule by the ring current criterion in experiment (1H NMR) and theory (NICS). <i>Tetrahedron Letters</i> , 1998 , 39, 6791-6794	2	53
163	Computation of aromatic C ₃ N ₄ networks and synthesis of the molecular precursor N(C ₃ N ₃) ₃ Cl ₆ . <i>Chemistry - A European Journal</i> , 2003 , 9, 4197-201	4.8	53
162	Toward Topology Prediction in Zr-Based Microporous Coordination Polymers: The Role of Linker Geometry and Flexibility. <i>Crystal Growth and Design</i> , 2016 , 16, 4148-4153	3.5	53
161	Metal-dependent phase selection in coordination polymers derived from a C(2V)-symmetric tricarboxylate. <i>Inorganic Chemistry</i> , 2010 , 49, 5271-5	5.1	52
160	Selection and discovery of polymorphs of platinum complexes facilitated by polymer-induced heteronucleation. <i>Inorganic Chemistry</i> , 2007 , 46, 453-7	5.1	52

159	Dialkyl-Substituted Thieno[3,2-b]thiophene-Based Polymers Containing 2,2-Bithiophene, Thieno[3,2-b]thiophene, and Ethynylene Spacers. <i>Macromolecules</i> , 2007 , 40, 9233-9237	5.5	52
158	Evolution of nanoscale pore structure in coordination polymers during thermal and chemical exposure revealed by positron annihilation. <i>Advanced Materials</i> , 2010 , 22, 1598-601	24	51
157	Planar beta-linked oligothiophenes based on thieno[3,2-b]thiophene and dithieno[3,2-b:2',3'-d]thiophene fused units. <i>Organic Letters</i> , 2007 , 9, 1005-8	6.2	51
156	C ₃ -Symmetric Hexakis(trimethylsilyl)[7]phenylene[tris(biphenylenocyclobutadieno)cyclohexatriene] a Polycyclic Benzenoid Hydrocarbon with Slightly Curved Topology. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 1478-1481		51
155	Polymorphs and hydrates of acyclovir. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 949-63	3.9	50
154	Combinatorial approaches to the synthesis of vapor detector arrays for use in an electronic nose. <i>ACS Combinatorial Science</i> , 2000 , 2, 301-4		49
153	Controlling pharmaceutical crystallization with designed polymeric heteronuclei. <i>Journal of the American Chemical Society</i> , 2015 , 137, 871-5	16.4	48
152	Heterogeneous single-molecule diffusion in one-, two-, and three-dimensional microporous coordination polymers: directional, trapped, and immobile guests. <i>Nano Letters</i> , 2012 , 12, 3080-5	11.5	48
151	Comparison of "polynaphthalenes" prepared by two mechanistically distinct routes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14708-9	16.4	47
150	Coordination copolymerization of three carboxylate linkers into a pillared layer framework. <i>Chemical Science</i> , 2014 , 5, 3729	9.4	46
149	Nonlinear Properties in Coordination Copolymers Derived from Randomly Mixed Ligands. <i>Crystal Growth and Design</i> , 2011 , 11, 2059-2063	3.5	45
148	Kinetic and Thermodynamic Forms of a Two-Dimensional Crystal. <i>Langmuir</i> , 2003 , 19, 7149-7152	4	45
147	The Heat of Hydrogenation of (a) Cyclohexatriene. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7819-7820	16.4	45
146	The Role of Modulators in Controlling Layer Spacings in a Tritopic Linker Based Zirconium 2D Microporous Coordination Polymer. <i>Inorganic Chemistry</i> , 2015 , 54, 4591-3	5.1	44
145	Multidrug Cocrystal of Anticonvulsants: Influence of Strong Intermolecular Interactions on Physicochemical Properties. <i>Crystal Growth and Design</i> , 2017 , 17, 5012-5016	3.5	44
144	Metal-Organic Frameworks: Examples, Counterexamples, and an Actionable Definition. <i>Crystal Growth and Design</i> , 2017 , 17, 4043-4048	3.5	43
143	Effects of Molecular Geometry on the STM Image Contrast of Methyl- and Bromo-Substituted Alkanes and Alkanols on Graphite. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 9690-9699	3.4	43
142	Dipolar Second-Order Nonlinear Optical Chromophores Containing Ferrocene, Octamethylferrocene, and Ruthenocene Donors and Strong π -Acceptors: Crystal Structures and Comparison of π -Donor Strengths. <i>Organometallics</i> , 2009 , 28, 1350-1357	3.8	42

141	The MetalOrganic Framework Collapse Continuum: Insights from Two-Dimensional Powder X-ray Diffraction. <i>Chemistry of Materials</i> , 2018 , 30, 6559-6565	9.6	42
140	Reduction of Thrombosis and Bacterial Infection via Controlled Nitric Oxide (NO) Release from -Nitroso-acetylpenicillamine (SNAP) Impregnated CarboSil Intravascular Catheters. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 349-359	5.5	41
139	Polymorph Discrimination using Low Wavenumber Raman Spectroscopy. <i>Organic Process Research and Development</i> , 2013 , 17, 976-980	3.9	41
138	Unmasking a third polymorph of a benchmark crystal-structure-prediction compound. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8505-8	16.4	41
137	Room-Temperature Ferroelectricity in an Organic Cocrystal. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9044-9047	16.4	41
136	Unprecedented Size of the π Holes on 1,3,5-Triiodo-2,4,6-trinitrobenzene Begets Unprecedented Intermolecular Interactions. <i>Crystal Growth and Design</i> , 2016 , 16, 1765-1771	3.5	38
135	Non-interpenetrated IRMOF-8: synthesis, activation, and gas sorption. <i>Chemical Communications</i> , 2012 , 48, 9828-30	5.8	38
134	Combined quantum chemical density functional theory and spectroscopic Raman and UV-vis-NIR study of oligothienoacenes with five and seven rings. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 5058-65 ^{2.8}		37
133	Room Temperature CpCo-Mediated Cyclization of alpha,delta,omega-Enediynes to Rearranging Strained Tricyclic Dienes. Some Observations of Kinetic versus Thermodynamic Control. <i>Journal of Organic Chemistry</i> , 1996 , 61, 4798-4800	4.2	37
132	Impact of Hydrogen and Halogen Bonding Interactions on the Packing and Ionicity of Charge-Transfer Cocrystals. <i>Crystal Growth and Design</i> , 2017 , 17, 328-336	3.5	36
131	Survey and analysis of crystal polymorphism in organic structures. <i>IUCrJ</i> , 2018 , 5, 124-129	4.7	36
130	Filling pore space in a microporous coordination polymer to improve methane storage performance. <i>Langmuir</i> , 2015 , 31, 2211-7	4	36
129	Isostructural Cocrystals of 1,3,5-Trinitrobenzene Assembled by Halogen Bonding. <i>Crystal Growth and Design</i> , 2016 , 16, 4688-4693	3.5	35
128	Interpenetration, porosity, and high-pressure gas adsorption in Zn ₄ O(2,6-naphthalene dicarboxylate) ₃ . <i>Langmuir</i> , 2013 , 29, 8146-53	4	34
127	Highly symmetric 2D rhombic nanoporous networks arising from low symmetry amphiphiles. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7946-7	16.4	34
126	Achieving Balanced Energetics through Cocrystallization. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17185-17188	16.4	33
125	Anatomy of a cyclohexatriene: chemical dissection of the pi and sigma frame of angular [3]phenylene. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3711-5	16.4	33
124	Microporous coordination polymers as efficient sorbents for air dehumidification. <i>Langmuir</i> , 2014 , 30, 1921-5	4	32

123	Regiochemical effects of sulfur oxidation on the electronic and solid-state properties of planarized oligothiophenes containing thieno[3,2-b]thiophene units. <i>Journal of Organic Chemistry</i> , 2008 , 73, 7882-84.2	4.2	32
122	Probing the Interplay between Amorphous Solid Dispersion Stability and Polymer Functionality. <i>Molecular Pharmaceutics</i> , 2018 , 15, 2714-2720	5.6	31
121	Beryllium benzene dicarboxylate: the first beryllium microporous coordination polymer. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6489		31
120	A Novel Phenylene Topology: Total Syntheses of Zigzag [4]- and [5]Phenylene. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 800-804	16.4	31
119	Coordination Polymerization of 5,5'-Dinitro-2H,2H'-3,3'-bi-1,2,4-triazole Leads to a Dense Explosive with High Thermal Stability. <i>Inorganic Chemistry</i> , 2017 , 56, 561-565	5.1	29
118	Positronium emission spectra from self-assembled metal-organic frameworks. <i>Physical Review B</i> , 2014 , 89,	3.3	29
117	Photoresponse Characteristics of Archetypal Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3112-3121	3.8	29
116	Thiophene/thieno[3,2-b]thiophene co-oligomers: fused-ring analogues of sexithiophene. <i>Journal of Organic Chemistry</i> , 2009 , 74, 9112-9	4.2	29
115	Estimation of system-level hydrogen storage for metal-organic frameworks with high volumetric storage density. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15135-15145	6.7	28
114	Structure activity relationships in metal-organic framework catalysts for the continuous flow synthesis of propylene carbonate from CO and propylene oxide.. <i>RSC Advances</i> , 2018 , 8, 2132-2137	3.7	28
113	Metal Effects on the Sensitivity of Isostructural Metal-Organic Frameworks Based on 5-Amino-3-nitro-1H-1,2,4-triazole. <i>Inorganic Chemistry</i> , 2017 , 56, 10151-10154	5.1	28
112	Porous solids arising from synergistic and competing modes of assembly: combining coordination chemistry and covalent bond formation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3983-7	16.4	28
111	Kinetics and pathways for an algal phospholipid (1,2-dioleoyl-sn-glycero-3-phosphocholine) in high-temperature (175±50 °C) water. <i>Green Chemistry</i> , 2012 , 14, 2856	10	28
110	Photochemistry of diethynyl sulfides: a cycloaromatization for the formation of five-membered rings. <i>Organic Letters</i> , 2003 , 5, 2195-7	6.2	28
109	Conformational pseudopolymorphism and orientational disorder in two-dimensional alkyl carbamate crystals. <i>Langmuir</i> , 2005 , 21, 647-55	4	28
108	Bergman cyclization of sterically hindered substrates and observation of phenyl-shifted products. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9968-9	16.4	28
107	Selection of Protein Crystal Forms Facilitated by Polymer-Induced Heteronucleation. <i>Crystal Growth and Design</i> , 2008 , 8, 347-350	3.5	27
106	1/f noise in gold nanoparticle chemosensors. <i>Applied Physics Letters</i> , 2005 , 86, 073506	3.4	26

105	The Influence of Chemical Modification on Linker Rotational Dynamics in Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8678-8681	16.4	26
104	Hydrogen Peroxide Solvates of 2,4,6,8,10,12-Hexanitro-2,4,6,8,10,12-hexaazaisowurtzitane. <i>Angewandte Chemie</i> , 2016 , 128, 13312-13315	3.6	25
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