Michael J Zaworotko

List of Publications by Year in Descending Order

508 papers	44,863 citations	98 h-index	200 g-index
552 ext. papers	48,333 ext. citations	8 avg, IF	7.8 L-index

#	Paper	IF	Citations
508	Tuning the switching pressure in square lattice coordination networks by metal cation substitution. *Materials Advances*, **2022**, 3, 1240-1247	3.3	0
507	Scalable robust nano-porous Zr-based MOF adsorbent with high-capacity for sustainable water purification. *Separation and Purification Technology*, **2022**, 288, 120620	8.3	3
506	The First Sulfate-Pillared Hybrid Ultramicroporous Material, SOFOUR-1-Zn, and Its Acetylene Capture Properties. *Angewandte Chemie*, **2022**, 134, e202116145	3.6	
505	Supramolecular Synthon Promiscuity in Phosphoric Acid-Dihydrogen Phosphate Ionic Cocrystals.. *Crystal Growth and Design*, **2022**, 22, 3333-3342	3.5	1
504	Trace removal of benzene vapour using double-walled metal-dipyrazolate frameworks.. *Nature Materials*, **2022**,	27	19
503	One-step ethylene production from a four-component gas mixture by a single physisorbent. *Nature Communications*, **2021**, 12, 6507	17.4	8
502	Tuning the Selectivity between CH and CO in Molecular Porous Materials. *Langmuir*, **2021**, 37, 13838-13845	4	2
501	The co-crystal of copper(II) phenanthroline chloride complex hydrate with p-aminobenzoic acid: structure, cytotoxicity, thermal analysis, and DFT calculation. *Monatshefte F□ Chemie*, **2021**, 152, 323-336	1.4	3
500	The "Chemistree" of Porous Coordination Networks: Taxonomic Classification of Porous Solids to Guide Crystal Engineering Studies. *Small*, **2021**, 17, e2006351	11	6
499	Amino-Functionalised Hybrid Ultramicroporous Materials that Enable Single-Step Ethylene Purification from a Ternary Mixture. *Angewandte Chemie*, **2021**, 133, 10997-11004	3.6	2
498	Amino-Functionalised Hybrid Ultramicroporous Materials that Enable Single-Step Ethylene Purification from a Ternary Mixture. *Angewandte Chemie - International Edition*, **2021**, 60, 10902-10909	16.4	16
497	Fabrication of Moisture-Responsive Crystalline Smart Materials for Water Harvesting and Electricity Transduction. *Journal of the American Chemical Society*, **2021**, 143, 7732-7739	16.4	11
496	High Working Capacity Acetylene Storage at Ambient Temperature Enabled by a Switching Adsorbent Layered Material. *ACS Applied Materials & Interfaces*, **2021**, 13, 23877-23883	9.5	4
495	Scalable Room-Temperature Synthesis of Highly Robust Ethane-Selective Metal-Organic Frameworks for Efficient Ethylene Purification. *Journal of the American Chemical Society*, **2021**, 143, 8654-8660	16.4	28
494	Screening and Preparation of Cocrystals: A Comparative Study of Mechanochemistry vs Slurry Methods. *Crystal Growth and Design*, **2021**, 21, 4141-4150	3.5	8
493	A robust heterometallic ultramicroporous MOF with ultrahigh selectivity for propyne/propylene separation. *Journal of Materials Chemistry A*, **2021**, 9, 2850-2856	13	11
492	Mixed-metal hybrid ultramicroporous material (HUM) precursor to graphene-supported tetrataenite as a highly active and durable NPG catalyst for the OER. *Dalton Transactions*, **2021**, 50, 5311-5317	4.3	2

491	Tin-Based Oxide, Alloy, and Selenide Li-Ion Battery Anodes Derived from a Bimetallic Metal–Organic Material. *Journal of Physical Chemistry C*, **2021**, 125, 1180-1189	3.8	4
490	Spiers Memorial Lecture: Coordination networks that switch between nonporous and porous structures: an emerging class of soft porous crystals. *Faraday Discussions*, **2021**, 231, 9-50	3.6	2
489	Toward an Understanding of the Propensity for Crystalline Hydrate Formation by Molecular Compounds. Part 2. *Crystal Growth and Design*, **2021**, 21, 4927-4939	3.5	2
488	Efficient Capture of Trace Acetylene by an Ultramicroporous Metal–Organic Framework with Purine Binding Sites. *Chemistry of Materials*, **2021**, 33, 5800-5808	9.6	3
487	Benchmark Acetylene Binding Affinity and Separation through Induced Fit in a Flexible Hybrid Ultramicroporous Material. *Angewandte Chemie*, **2021**, 133, 20546-20553	3.6	2
486	Breaking the trade-off between selectivity and adsorption capacity for gas separation. *CheM*, **2021**, 7, 3085-3098	16.2	18
485	Benchmark Acetylene Binding Affinity and Separation through Induced Fit in a Flexible Hybrid Ultramicroporous Material. *Angewandte Chemie - International Edition*, **2021**, 60, 20383-20390	16.4	9
484	A Piezoelectric Ionic Cocrystal of Glycine and Sulfamic Acid. *Crystal Growth and Design*, **2021**, 21, 5818-5827	3.5	3
483	Efficient propyne/propadiene separation by microporous crystalline physiadsorbents. *Nature Communications*, **2021**, 12, 5768	17.4	9
482	Reversed C2H6/C2H4 separation in interpenetrated diamondoid coordination networks with enhanced host–guest interaction. *Separation and Purification Technology*, **2021**, 276, 119385	8.3	3
481	Pore Engineering for One-Step Ethylene Purification from a Three-Component Hydrocarbon Mixture. *Journal of the American Chemical Society*, **2021**, 143, 1485-1492	16.4	39
480	Expanding the NUIG MOF family: synthesis and characterization of new MOFs for selective CO adsorption, metal ion removal from aqueous systems, and drug delivery applications. *Dalton Transactions*, **2021**, 50, 6997-7006	4.3	1
479	Crystal engineering of coordination networks: then and now **2021**, 17-60		
478	Reversible single-crystal to single-crystal phase transformation between a new Werner clathrate and its apohost. *Dalton Transactions*, **2021**, 50, 12923-12930	4.3	0
477	Crystal engineering of porous coordination networks for C3 hydrocarbon separation. *SmartMat*, **2021**, 2, 38-55	22.8	16
476	A square lattice topology coordination network that exhibits highly selective C2H2/CO2 separation performance. *SmartMat*, **2020**, 1, e1008	22.8	5
475	Cocrystal Polymorphs and Solvates of the Anti-Trypanosoma cruzi Drug Benznidazole with Improved Dissolution Performance. *Crystal Growth and Design*, **2020**, 20, 4707-4718	3.5	8
474	Crystal engineering of a rectangular coordination network to enable xylenes selectivity over ethylbenzene. *Chemical Science*, **2020**, 11, 6889-6895	9.4	12

473	Tetrahedral Geometry Induction of Stable Ag-Ti Nanoclusters by Flexible Trifurcate TiL Metalloligand. *Journal of the American Chemical Society*, **2020**, 142, 12784-12790	16.4	14
472	Metal-Organic Material Polymer Coatings for Enhanced Gas Sorption Performance and Hydrolytic Stability under Humid Conditions. *ACS Applied Materials & Interfaces*, **2020**, 12, 33759-33764	9.5	9
471	Reversible Switching between Nonporous and Porous Phases of a New SIFSIX Coordination Network Induced by a Flexible Linker Ligand. *Journal of the American Chemical Society*, **2020**, 142, 6896-6901	16.4	20
470	Structural Elucidation of the Mechanism of Molecular Recognition in Chiral Crystalline Sponges. *Angewandte Chemie - International Edition*, **2020**, 59, 17600-17606	16.4	14
469	Protein-Structure-Directed Metal□Organic Zeolite-like Networks as Biomacromolecule Carriers. *Angewandte Chemie*, **2020**, 132, 6322-6326	3.6	7
468	Protein-Structure-Directed Metal-Organic Zeolite-like Networks as Biomacromolecule Carriers. *Angewandte Chemie - International Edition*, **2020**, 59, 6263-6267	16.4	33
467	Halogen-C H Binding in Ultramicroporous Metal-Organic Frameworks (MOFs) for Benchmark C H /CO Separation Selectivity. *Chemistry - A European Journal*, **2020**, 26, 4923-4929	4.8	36
466	[Cu(4-phenylpyridine)(trifluoromethanesulfonate)], a Werner complex that exhibits high selectivity for o-xylene. *Chemical Communications*, **2020**, 56, 1940-1943	5.8	7
465	Pharmaceutical Cocrystals: Formulation Approaches to Develop Robust Drug Products. *Crystal Growth and Design*, **2020**, 20, 617-626	3.5	11
464	An overview on trace CO removal by advanced physisorbent materials. *Journal of Environmental Management*, **2020**, 255, 109874	7.9	14
463	Crystal engineering of porous coordination networks to enable separation of C2 hydrocarbons. *Chemical Communications*, **2020**, 56, 10419-10441	5.8	63
462	Structural Elucidation of the Mechanism of Molecular Recognition in Chiral Crystalline Sponges. *Angewandte Chemie*, **2020**, 132, 17753-17759	3.6	8
461	Supramolecular Cages Based on a Silver Complex as Adaptable Hosts for Poly-Aromatic Hydrocarbons. *Small*, **2020**, 16, e2001377	11	3
460	Innentitelbild: Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H2 by Calcium Trimesate (Angew. Chem. 37/2020). *Angewandte Chemie*, **2020**, 132, 15898-15898	3.6	
459	Crystal Engineering of Hybrid Coordination Networks: From Form to Function. *Trends in Chemistry*, **2020**, 2, 506-518	14.8	32
458	Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H2 by Calcium Trimesate. *Angewandte Chemie*, **2020**, 132, 16322-16328	3.6	5
457	Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H by Calcium Trimesate. *Angewandte Chemie - International Edition*, **2020**, 59, 16188-16194	16.4	17
456	Tuning the Gate-Opening Pressure in a Switching pcu Coordination Network, X-pcu-5-Zn, by Pillar-Ligand Substitution. *Angewandte Chemie - International Edition*, **2019**, 58, 18212-18217	16.4	24

455	Solvent-directed control over the topology of entanglement in square lattice (sql) coordination networks. *Chemical Communications*, **2019**, 55, 1454-1457	5.8	9
454	Molecular Sieving and Direct Visualization of CO in Binding Pockets of an Ultramicroporous Lanthanide Metal-Organic Framework Platform. *ACS Applied Materials & Interfaces*, **2019**, 11, 23192-23197	9.5	9
453	CO2 Capture: Specific K+ Binding Sites as CO2 Traps in a Porous MOF for Enhanced CO2 Selective Sorption (Small 22/2019). *Small*, **2019**, 15, 1970118	11	2
452	Investigating CO2 Sorption in SIFSIX-3-M (M = Fe, Co, Ni, Cu, Zn) through Computational Studies. *Crystal Growth and Design*, **2019**, 19, 3732-3743	3.5	17
451	Soft Porous Crystal Based upon Organic Cages That Exhibit Guest-Induced Breathing and Selective Gas Separation. *Journal of the American Chemical Society*, **2019**, 141, 9408-9414	16.4	46
450	Robust Microporous Metal□Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. *Angewandte Chemie*, **2019**, 131, 10315-10320	3.6	12
449	Robust Microporous Metal-Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. *Angewandte Chemie - International Edition*, **2019**, 58, 10209-10214	16.4	45
448	A Gadolinium(III) Zeolite-like Metal-Organic-Framework-Based Magnetic Resonance Thermometer. *CheM*, **2019**, 5, 1609-1618	16.2	21
447	The utility of the template effect in metal-organic frameworks. *Coordination Chemistry Reviews*, **2019**, 391, 44-68	23.2	47
446	Specific K Binding Sites as CO Traps in a Porous MOF for Enhanced CO Selective Sorption. *Small*, **2019**, 15, e1900426	11	45
445	Highly Selective, High-Capacity Separation of o-Xylene from C Aromatics by a Switching Adsorbent Layered Material. *Angewandte Chemie - International Edition*, **2019**, 58, 6630-6634	16.4	40
444	Benchmark selectivity -xylene separation by a non-porous molecular solid through liquid or vapor extraction. *Chemical Science*, **2019**, 10, 8850-8854	9.4	17
443	Cleaving Carboxyls: Understanding Thermally Triggered Hierarchical Pores in the Metal-Organic Framework MIL-121. *Journal of the American Chemical Society*, **2019**, 141, 14257-14271	16.4	35
442	Metal-organic framework based carbon capture and purification technologies for clean environment **2019**, 5-61		14
441	Self-Healing Hyper-Cross-Linked Metal-Organic Polyhedra (HCMOPs) Membranes with Antimicrobial Activity and Highly Selective Separation Properties. *Journal of the American Chemical Society*, **2019**, 141, 12064-12070	16.4	72
440	Template-Directed Synthesis of Photocatalyst-Encapsulating Metal□Organic Frameworks with Boosted Photocatalytic Activity. *ACS Catalysis*, **2019**, 9, 7486-7493	13.1	35
439	Fabrication of Large Single Crystals for Platinum-Based Linear Polymers with Controlled-Release and Photoactuator Performance. *Angewandte Chemie - International Edition*, **2019**, 58, 18634-18640	16.4	12
438	Synergistic sorbent separation for one-step ethylene purification from a four-component mixture. *Science*, **2019**, 366, 241-246	33.3	177

437	Tautomeric polymorphism of the neuroactive inhibitor kynurenic acid. *Acta Crystallographica Section C, Structural Chemistry*, **2019**, 75, 793-805	0.8	2
436	Highly Selective, High-Capacity Separation of o-Xylene from C8 Aromatics by a Switching Adsorbent Layered Material. *Angewandte Chemie*, **2019**, 131, 6702-6706	3.6	8
435	Highly selective CO removal for one-step liquefied natural gas processing by physisorbents. *Chemical Communications*, **2019**, 55, 3219-3222	5.8	23
434	Tuning the Gate-Opening Pressure in a Switching pcu Coordination Network, X-pcu-5-Zn, by Pillar-Ligand Substitution. *Angewandte Chemie*, **2019**, 131, 18380-18385	3.6	5
433	Trace CO capture by an ultramicroporous physisorbent with low water affinity. *Science Advances*, **2019**, 5, eaax9171	14.3	62
432	Comparison of Mechanochemistry vs Solution Methods for Synthesis of 4,4?-Bipyridine-Based Coordination Polymers. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 19505-19512	8.3	11
431	Antibodies@MOFs: An In Vitro Protective Coating for Preparation and Storage of Biopharmaceuticals. *Advanced Materials*, **2019**, 31, e1805148	24	93
430	Metal□Organic Frameworks: Antibodies@MOFs: An In Vitro Protective Coating for Preparation and Storage of Biopharmaceuticals (Adv. Mater. 2/2019). *Advanced Materials*, **2019**, 31, 1970012	24	2
429	Multimodal surface analyses of chemistry and structure of biominerals in rodent pineal gland concretions. *Applied Surface Science*, **2019**, 469, 378-386	6.7	2
428	Pharmaceutical cocrystals: from serendipity to design to application. *Drug Discovery Today*, **2019**, 24, 796-804	8.8	123
427	Solid-State Characterization and Relative Formation Enthalpies To Evaluate Stability of Cocrystals of an Antidiabetic Drug. *Molecular Pharmaceutics*, **2018**, 15, 1901-1908	5.6	5
426	Copper Sulfide (CuxS) Nanowire-in-Carbon Composites Formed from Direct Sulfurization of the Metal-Organic Framework HKUST-1 and Their Use as Li-Ion Battery Cathodes. *Advanced Functional Materials*, **2018**, 28, 1800587	15.6	59
425	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gate-Opening at Methane Storage Pressures. *Angewandte Chemie - International Edition*, **2018**, 57, 5684-5689	16.4	108
424	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gate-Opening at Methane Storage Pressures. *Angewandte Chemie*, **2018**, 130, 5786-5791	3.6	17
423	Crystal engineering of dichromate pillared hybrid ultramicroporous materials incorporating pyrazole-based ligands. *CrystEngComm*, **2018**, 20, 1193-1197	3.3	4
422	Efficient CO Removal for Ultra-Pure CO Production by Two Hybrid Ultramicroporous Materials. *Angewandte Chemie - International Edition*, **2018**, 57, 3332-3336	16.4	38
421	Efficient CO2 Removal for Ultra-Pure CO Production by Two Hybrid Ultramicroporous Materials. *Angewandte Chemie*, **2018**, 130, 3390-3394	3.6	8
420	Readily accessible shape-memory effect in a porous interpenetrated coordination network. *Science Advances*, **2018**, 4, eaaq1636	14.3	42

419	Fine Tuning and Specific Binding Sites with a Porous Hydrogen-Bonded Metal-Complex Framework for Gas Selective Separations. *Journal of the American Chemical Society*, **2018**, 140, 4596-4603	16.4	115
418	Impact of partial interpenetration in a hybrid ultramicroporous material on CH/CH separation performance. *Chemical Communications*, **2018**, 54, 3488-3491	5.8	29
417	Hygroscopicity of lithium coordination polymers and their solid solutions. *CrystEngComm*, **2018**, 20, 5940-5944	3.3	5
416	A dynamic and multi-responsive porous flexible metal-organic material. *Nature Communications*, **2018**, 9, 3080	17.4	62
415	Stable Superhydrophobic Ceramic-Based Carbon Nanotube Composite Desalination Membranes. *Nano Letters*, **2018**, 18, 5514-5521	11.5	102
414	Chapter 2:The Role of Hydrogen Bonding in Co-crystals. *Monographs in Supramolecular Chemistry*, **2018**, 33-79	1.1	7
413	Self-Assembly of Goldberg Polyhedra from a Concave [WVO(RCO)(SO)] Building Block with 5-Fold Symmetry. *Journal of the American Chemical Society*, **2018**, 140, 17365-17368	16.4	56
412	Finding the Optimal Balance between the Pore Size and Pore Chemistry in Hybrid Ultramicroporous Materials for Trace Acetylene Capture. *ACS Applied Nano Materials*, **2018**, 1, 6000-6004	5.6	6
411	High Yield, Low-Waste Synthesis of a Family of Pyridyl and Imidazolyl-Substituted Schiff Base Linker Ligands. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14589-14598	8.3	9
410	Layered Bimetallic Metal-Organic Material Derived Cu2SnS3/SnS2/C Composite for Anode Applications in Lithium-Ion Batteries. *ChemElectroChem*, **2018**, 5, 3764-3770	4.3	9
409	Coordination Network That Reversibly Switches between Two Nonporous Polymorphs and a High Surface Area Porous Phase. *Journal of the American Chemical Society*, **2018**, 140, 15572-15576	16.4	38
408	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
407	Recyclable switching between nonporous and porous phases of a square lattice (sql) topology coordination network. *Chemical Communications*, **2018**, 54, 7042-7045	5.8	24
406	Robust Ultramicroporous Metal□Organic Frameworks with Benchmark Affinity for Acetylene. *Angewandte Chemie*, **2018**, 130, 11137-11141	3.6	62
405	Robust Ultramicroporous Metal-Organic Frameworks with Benchmark Affinity for Acetylene. *Angewandte Chemie - International Edition*, **2018**, 57, 10971-10975	16.4	218
404	Highly Selective Separation of CH from CO by a New Dichromate-Based Hybrid Ultramicroporous Material. *ACS Applied Materials & Interfaces*, **2017**, 9, 33395-33400	9.5	81
403	Crystal Engineering Approach to Generate Crystalline Inclusion Compounds in Which 5-Hydroxyisophthalic Acid Serves as a Host. *Crystal Growth and Design*, **2017**, 17, 959-962	3.5	15
402	The role of weak interactions in controlling the mode of interpenetration in hybrid ultramicroporous materials. *Chemical Communications*, **2017**, 53, 3978-3981	5.8	23

401	Hybrid ultramicroporous materials (HUMs) with enhanced stability and trace carbon capture performance. *Chemical Communications*, **2017**, 53, 5946-5949	5.8	66
400	Construction of a Series of Porous (3,9)-c Coordination Networks Using Dicarboxylate and Tris-pyridyl Ligands and Their Gas Storage Properties. *Crystal Growth and Design*, **2017**, 17, 3475-3481	3.5	12
399	Flue-gas and direct-air capture of CO2 by porous metal-organic materials. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2017**, 375,	3	48
398	Water Vapor Sorption in Hybrid Pillared Square Grid Materials. *Journal of the American Chemical Society*, **2017**, 139, 8508-8513	16.4	70
397	Enhanced Stability toward Humidity in a Family of Hybrid Ultramicroporous Materials Incorporating Cr2O72Pillars. *Crystal Growth and Design*, **2017**, 17, 1933-1937	3.5	8
396	Effect of ring rotation upon gas adsorption in SIFSIX-3-M (M = Fe, Ni) pillared square grid networks. *Chemical Science*, **2017**, 8, 2373-2380	9.4	93
395	The effect of centred versus offset interpenetration on CH sorption in hybrid ultramicroporous materials. *Chemical Communications*, **2017**, 53, 11592-11595	5.8	32
394	Fine Tuning of MOF-505 Analogues To Reduce Low-Pressure Methane Uptake and Enhance Methane Working Capacity. *Angewandte Chemie*, **2017**, 129, 11584-11588	3.6	20
393	Fine Tuning of MOF-505 Analogues To Reduce Low-Pressure Methane Uptake and Enhance Methane Working Capacity. *Angewandte Chemie - International Edition*, **2017**, 56, 11426-11430	16.4	92
392	Post-synthetic transformation of a Zn(ii) polyhedral coordination network into a new supramolecular isomer of HKUST-1. *Chemical Communications*, **2017**, 53, 8866-8869	5.8	10
391	A Chiral Metal-Organic Material that Enables Enantiomeric Identification and Purification. *CheM*, **2017**, 3, 281-289	16.2	65
390	Controlling the Uptake and Regulating the Release of Nitric Oxide in Microporous Solids. *ACS Applied Materials & Interfaces*, **2017**, 9, 43520-43528	9.5	13
389	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. *Advanced Materials*, **2017**, 29, 1704210	24	213
388	A new Co(II) metalorganic framework with enhanced CO2 adsorption and separation performance. *Inorganic Chemistry Frontiers*, **2016**, 3, 1510-1515	6.8	21
387	Tuning Pore Size in Square-Lattice Coordination Networks for Size-Selective Sieving of CO2. *Angewandte Chemie*, **2016**, 128, 10424-10428	3.6	34
386	Tuning Pore Size in Square-Lattice Coordination Networks for Size-Selective Sieving of CO2. *Angewandte Chemie - International Edition*, **2016**, 55, 10268-72	16.4	185
385	Improving Biopharmaceutical Properties of Vinpocetine Through Cocrystallization. *Journal of Pharmaceutical Sciences*, **2016**, 105, 3626-3633	3.9	21
384	Network diversity through two-step crystal engineering of a decorated 6-connected primary molecular building block. *CrystEngComm*, **2016**, 18, 8578-8581	3.3	12

383	Theoretical Investigations of CO and H Sorption in Robust Molecular Porous Materials. *Langmuir*, **2016**, 32, 11492-11505	4	14
382	Theoretical Optimization of Pore Size and Chemistry in SIFSIX-3-M Hybrid Ultramicroporous Materials. *Crystal Growth and Design*, **2016**, 16, 3890-3897	3.5	29
381	Dual Functionalized Cages in Metal□Organic Frameworks via Stepwise Postsynthetic Modification. *Chemistry of Materials*, **2016**, 28, 4781-4786	9.6	45
380	Crystal Engineering of a 4,6-c fsc Platform That Can Serve as a Carbon Dioxide Single-Molecule Trap. *Crystal Growth and Design*, **2016**, 16, 1071-1080	3.5	17
379	A rare cationic building block that generates a new type of polyhedral network with "cross-linked" pto topology. *Chemical Communications*, **2016**, 52, 4160-2	5.8	9
378	Ammonium-crown ether supramolecular cation-templated assembly of an unprecedented heterobicluster-metal coordination polymer with enhanced NLO properties. *Chemical Communications*, **2016**, 52, 3797-800	5.8	27
377	Chloral Hydrate Polymorphs and Cocrystal Revisited: Solving Two Pharmaceutical Cold Cases. *Crystal Growth and Design*, **2016**, 16, 2211-2217	3.5	14
376	Pharmaceutical cocrystals: along the path to improved medicines. *Chemical Communications*, **2016**, 52, 640-55	5.8	592
375	Hybrid Ultra-Microporous Materials for Selective Xenon Adsorption and Separation. *Angewandte Chemie*, **2016**, 128, 8425-8429	3.6	27
374	Hybrid Ultra-Microporous Materials for Selective Xenon Adsorption and Separation. *Angewandte Chemie - International Edition*, **2016**, 55, 8285-9	16.4	100
373	Benchmark C2H2/CO2 and CO2/C2H2 Separation by Two Closely Related Hybrid Ultramicroporous Materials. *CheM*, **2016**, 1, 753-765	16.2	232
372	Towards an understanding of the propensity for crystalline hydrate formation by molecular compounds. *IUCrJ*, **2016**, 3, 430-439	4.7	32
371	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. *Science*, **2016**, 353, 141-4	33.3	783
370	Crystal engineering of a family of hybrid ultramicroporous materials based upon interpenetration and dichromate linkers. *Chemical Science*, **2016**, 7, 5470-5476	9.4	56
369	Remote Stabilization of Copper Paddlewheel Based Molecular Building Blocks in Metal□Organic Frameworks. *Chemistry of Materials*, **2015**, 27, 2144-2151	9.6	64
368	Expanding the Scope of Molecular Mixed Crystals Enabled by Three Component Solid Solutions. *Crystal Growth and Design*, **2015**, 15, 4098-4103	3.5	43
367	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
366	Double-walled topology networks from a novel fluoride-bridged heptanuclear metal cluster. *Chemical Science*, **2015**, 6, 4784-4789	9.4	33

365	A new family of anionic organic-inorganic hybrid doughnut-like nanostructures. *Chemical Communications*, **2015**, 51, 9223-6	5.8	30
364	Novel mode of 2-fold interpenetration observed in a primitive cubic network of formula [Ni(1,2-bis(4-pyridyl)acetylene)2(Cr2O7)]n. *Chemical Communications*, **2015**, 51, 14832-5	5.8	40
363	A mixed-crystal lanthanide zeolite-like metal-organic framework as a fluorescent indicator for lysophosphatidic acid, a cancer biomarker. *Journal of the American Chemical Society*, **2015**, 137, 12203-6	16.4	277
362	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
361	Hydrophobic pillared square grids for selective removal of CO2 from simulated flue gas. *Chemical Communications*, **2015**, 51, 15530-3	5.8	95
360	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
359	Direct Air Capture of CO2 by Physisorbent Materials. *Angewandte Chemie*, **2015**, 127, 14580-14585	3.6	29
358	Direct Air Capture of CO2 by Physisorbent Materials. *Angewandte Chemie - International Edition*, **2015**, 54, 14372-7	16.4	260
357	Organic–inorganic hybrid polyhedra that can serve as supermolecular building blocks. *Chemical Science*, **2014**, 5, 927-931	9.4	58
356	[M3(μ3-O)(O2CR)6] and related trigonal prisms: versatile molecular building blocks for crystal engineering of metal–organic material platforms. *Chemical Science*, **2014**, 5, 1269-1282	9.4	114
355	Metal-organic organopolymeric hybrid framework by reversible [2+2] cycloaddition reaction. *Angewandte Chemie - International Edition*, **2014**, 53, 414-9	16.4	118
354	Dramatic effect of pore size reduction on the dynamics of hydrogen adsorbed in metal–organic materials. *Journal of Materials Chemistry A*, **2014**, 2, 13884	13	19
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