

Martin Schroder

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

518
papers

27,200
citations

82
h-index

146
g-index

547
ext. papers

29,121
ext. citations

8.4
avg, IF

6.7
L-index

#	Paper	IF	Citations
518	Coordination chemistry of nitrile-functionalized mixed thia-aza macrocycles [9]aneNS and [9]aneNS towards silver(I).. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2022 , 78, 169-175	0.8	
517	High capacity ammonia adsorption in a robust metal-organic framework mediated by reversible host-guest interactions.. <i>Chemical Communications</i> , 2022 ,	5.8	1
516	Simultaneous neutron powder diffraction and microwave characterisation at elevated temperatures. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23602-23609	3.6	
515	The Impact of Structural Defects on Iodine Adsorption in UiO-66. <i>Chemistry</i> , 2021 , 3, 525-531	2.1	3
514	Exceptional Packing Density of Ammonia in a Dual-Functionalized Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6586-6592	16.4	10
513	The Origin of Catalytic Benzylic C-H Oxidation over a Redox-Active Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15243-15247	16.4	4
512	The Origin of Catalytic Benzylic C-H Oxidation over a Redox-Active Metal-Organic Framework. <i>Angewandte Chemie</i> , 2021 , 133, 15371-15375	3.6	
511	Construction of C-C bonds via photoreductive coupling of ketones and aldehydes in the metal-organic-framework MFM-300(Cr). <i>Nature Communications</i> , 2021 , 12, 3583	17.4	8
510	Purification of Propylene and Ethylene by a Robust Metal-Organic Framework Mediated by Host-Guest Interactions. <i>Angewandte Chemie</i> , 2021 , 133, 15669-15675	3.6	6
509	Purification of Propylene and Ethylene by a Robust Metal-Organic Framework Mediated by Host-Guest Interactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15541-15547	16.4	17
508	Enhanced proton conductivity in a flexible metal-organic framework promoted by single-crystal-to-single-crystal transformation. <i>Chemical Communications</i> , 2021 , 57, 65-68	5.8	3
507	Ultra-thin g-CN/MFM-300(Fe) heterojunctions for photocatalytic aerobic oxidation of benzylic carbon centers. <i>Materials Advances</i> , 2021 , 2, 5144-5149	3.3	3
506	Binding and separation of CO ₂ , SO ₂ and C ₂ H ₂ in homo- and hetero-metallic metal-organic framework materials. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7190-7197	13	4
505	Catalytic decomposition of NO ₂ over a copper-decorated metal-organic framework by non-thermal plasma. <i>Cell Reports Physical Science</i> , 2021 , 2, 100349	6.1	3
504	High Ammonia Adsorption in MFM-300 Materials: Dynamics and Charge Transfer in Host-Guest Binding. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3153-3161	16.4	24
503	Selective Gas Uptake and Rotational Dynamics in a (3,24)-Connected Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3348-3358	16.4	19
502	Atomically Dispersed Copper Sites in a Metal-Organic Framework for Reduction of Nitrogen Dioxide. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10977-10985	16.4	15

501	Observation of binding of carbon dioxide to nitro-decorated metal-organic frameworks. <i>Chemical Science</i> , 2020 , 11, 5339-5346	9.4	11
500	Quantitative Electro-Reduction of CO to Liquid Fuel over Electro-Synthesized Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17384-17392	16.4	26
499	Porous Metal-Organic Polyhedra: Morphology, Porosity, and Guest Binding. <i>Inorganic Chemistry</i> , 2020 , 59, 15646-15658	5.1	6
498	Long-Term Stability of MFM-300(Al) toward Toxic Air Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42949-42954	9.5	12
497	Adsorption of Nitrogen Dioxide in a Redox-Active Vanadium Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15235-15239	16.4	20
496	Electro-reduction of carbon dioxide at low over-potential at a metal-organic framework decorated cathode. <i>Nature Communications</i> , 2020 , 11, 5464	17.4	21
495	Guest-Controlled Incommensurate Modulation in a Meta-Rigid Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19189-19197	16.4	9
494	Refinement of pore size at sub-angstrom precision in robust metal-organic frameworks for separation of xylenes. <i>Nature Communications</i> , 2020 , 11, 4280	17.4	22
493	Iodine Adsorption in a Redox-Active Metal-Organic Framework: Electrical Conductivity Induced by Host-Guest Charge-Transfer. <i>Inorganic Chemistry</i> , 2019 , 58, 14145-14150	5.1	38
492	Modulating proton diffusion and conductivity in metal-organic frameworks by incorporation of accessible free carboxylic acid groups. <i>Chemical Science</i> , 2019 , 10, 1492-1499	9.4	38
491	Host-guest selectivity in a series of isoreticular metal-organic frameworks: observation of acetylene-to-alkyne and carbon dioxide-to-amide interactions. <i>Chemical Science</i> , 2019 , 10, 1098-1106	9.4	30
490	Post-synthetic modulation of the charge distribution in a metal-organic framework for optimal binding of carbon dioxide and sulfur dioxide. <i>Chemical Science</i> , 2019 , 10, 1472-1482	9.4	35
489	Porous metal-organic frameworks as emerging sorbents for clean air. <i>Nature Reviews Chemistry</i> , 2019 , 3, 108-118	34.6	110
488	Understanding Hysteresis in Carbon Dioxide Sorption in Porous Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2019 , 58, 6811-6820	5.1	13
487	Reversible MOF-Based Sensors for the Electrical Detection of Iodine Gas. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27982-27988	9.5	29
486	Analysis by synchrotron X-ray scattering of the kinetics of formation of an Fe-based metal-organic framework with high CO ₂ adsorption. <i>APL Materials</i> , 2019 , 7, 111104	5.7	3
485	Capture of nitrogen dioxide and conversion to nitric acid in a porous metal-organic framework. <i>Nature Chemistry</i> , 2019 , 11, 1085-1090	17.6	55
484	Integration of mesopores and crystal defects in metal-organic frameworks via templated electrosynthesis. <i>Nature Communications</i> , 2019 , 10, 4466	17.4	45

483	Reversible coordinative binding and separation of sulfur dioxide in a robust metal-organic framework with open copper sites. <i>Nature Materials</i> , 2019 , 18, 1358-1365	27	95
482	Heterobimetallic [NiFe] Complexes Containing Mixed CO/CN Ligands: Analogs of the Active Site of the [NiFe] Hydrogenases. <i>Inorganic Chemistry</i> , 2018 , 57, 2558-2569	5.1	11
481	Direct observation of supramolecular binding of light hydrocarbons in vanadium(iii) and (iv) metal-organic framework materials. <i>Chemical Science</i> , 2018 , 9, 3401-3408	9.4	19
480	Locating the binding domains in a highly selective mixed matrix membrane via synchrotron IR microspectroscopy. <i>Chemical Communications</i> , 2018 , 54, 2866-2869	5.8	8
479	Enhancement of CO Uptake and Selectivity in a Metal-Organic Framework by the Incorporation of Thiophene Functionality. <i>Inorganic Chemistry</i> , 2018 , 57, 5074-5082	5.1	26
478	Polycatenated 2D Hydrogen-Bonded Binary Supramolecular Organic Frameworks (SOFs) with Enhanced Gas Adsorption and Selectivity. <i>Crystal Growth and Design</i> , 2018 , 18, 2555-2562	3.5	33
477	Unusual and Tunable Negative Linear Compressibility in the Metal-Organic Framework MFM-133(M) (M = Zr, Hf). <i>Journal of the American Chemical Society</i> , 2018 , 140, 3952-3958	16.4	41
476	Ammonia Storage by Reversible Host-Guest Site Exchange in a Robust Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14778-14781	16.4	55
475	Characterisation of redox states of metal-organic frameworks by growth on modified thin-film electrodes. <i>Chemical Science</i> , 2018 , 9, 6572-6579	9.4	10
474	Reversible adsorption of nitrogen dioxide within a robust porous metal-organic framework. <i>Nature Materials</i> , 2018 , 17, 691-696	27	108
473	Innenr ^ü ktitelbild: Ammonia Storage by Reversible Host-Guest Site Exchange in a Robust MetalOrganic Framework (Angew. Chem. 45/2018). <i>Angewandte Chemie</i> , 2018 , 130, 15163-15163	3.6	
472	Exceptional Adsorption and Binding of Sulfur Dioxide in a Robust Zirconium-Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15564-15567	16.4	98
471	Optimal Binding of Acetylene to a Nitro-Decorated Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16006-16009	16.4	18
470	Enhancement of Proton Conductivity in Nonporous MetalOrganic Frameworks: The Role of Framework Proton Density and Humidity. <i>Chemistry of Materials</i> , 2018 , 30, 7593-7602	9.6	36
469	High Volumetric Hydrogen Adsorption in a Porous Anthracene-Decorated Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2018 , 57, 12050-12055	5.1	16
468	Ammonia Storage by Reversible HostGuest Site Exchange in a Robust MetalOrganic Framework. <i>Angewandte Chemie</i> , 2018 , 130, 14994-14997	3.6	9
467	A Cryptand Metal-Organic Framework as a Platform for the Selective Uptake and Detection of Group I Metal Cations. <i>Chemistry - A European Journal</i> , 2017 , 23, 2286-2289	4.8	14
466	Rational Synthesis and Investigation of Porous Metal-Organic Framework Materials from a Preorganized Heterometallic Carboxylate Building Block. <i>Inorganic Chemistry</i> , 2017 , 56, 1599-1608	5.1	57

465	Tailoring porosity and rotational dynamics in a series of octacarboxylate metal-organic frameworks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3056-3061	11.5	57
464	Stepwise observation and quantification and mixed matrix membrane separation of CO within a hydroxy-decorated porous host. <i>Chemical Science</i> , 2017 , 8, 3239-3248	9.4	13
463	Unravelling exceptional acetylene and carbon dioxide adsorption within a tetra-amide functionalized metal-organic framework. <i>Nature Communications</i> , 2017 , 8, 14085	17.4	135
462	Modulating supramolecular binding of carbon dioxide in a redox-active porous metal-organic framework. <i>Nature Communications</i> , 2017 , 8, 14212	17.4	64
461	Binding CO by a Cr Metallacrown. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5527-5530	16.4	14
460	Binding CO ₂ by a Cr ₈ Metallacrown. <i>Angewandte Chemie</i> , 2017 , 129, 5619-5622	3.6	4
459	Structural and dynamic studies of substrate binding in porous metal-organic frameworks. <i>Chemical Society Reviews</i> , 2017 , 46, 239-274	58.5	166
458	MetalOrganic frameworks in seconds via selective microwave heating. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7333-7338	13	53
457	Probing the use of long lived intra-ligand excited states for photocatalytic systems: A study of the photophysics and photochemistry of [ReCl(CO) ₃ (dppz-(CH ₃) ₂)]. <i>Polyhedron</i> , 2017 , 123, 259-264	2.7	5
456	Halochromic coordination polymers based on a triarylmethane dye for reversible detection of acids. <i>Dalton Transactions</i> , 2017 , 46, 465-470	4.3	8
455	Gas adsorption and structural diversity in a family of Cu(II) pyridyl-isophthalate metal-organic framework materials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	9
454	Confinement of Iodine Molecules into Triple-Helical Chains within Robust Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16289-16296	16.4	132
453	Porous Metal-Organic Polyhedral Frameworks with Optimal Molecular Dynamics and Pore Geometry for Methane Storage. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13349-13360	16.4	69
452	Supramolecular networks stabilise and functionalise black phosphorus. <i>Nature Communications</i> , 2017 , 8, 1385	17.4	57
451	The effect of carboxylate position on the structure of a metal organic framework derived from cyclotrimeratrylene. <i>CrystEngComm</i> , 2017 , 19, 603-607	3.3	8
450	Selective Adsorption of Sulfur Dioxide in a Robust Metal-Organic Framework Material. <i>Advanced Materials</i> , 2016 , 28, 8705-8711	24	161
449	High-pressure studies of three polymorphs of a palladium(II) oxathioether macrocyclic complex. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016 , 72, 357-71	1.8	4
448	Observation of Binding and Rotation of Methane and Hydrogen within a Functional Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9119-27	16.4	48

447	Assembly of high nuclearity clusters from a family of tripodal tris-carboxylate ligands. <i>Polyhedron</i> , 2016 , 120, 18-29	2.7	4
446	A Comparison of the Selectivity of Extraction of [PtCl ₆](2-) by Mono-, Bi-, and Tripodal Receptors That Address Its Outer Coordination Sphere. <i>Inorganic Chemistry</i> , 2016 , 55, 6247-60	5.1	11
445	Stabilising the lowest energy charge-separated state in a {metal chromophore - fullerene} assembly: a tuneable panchromatic absorbing donor-acceptor triad. <i>Chemical Science</i> , 2016 , 7, 5908-5929	4.4	13
444	Understanding the electromagnetic interaction of metal organic framework reactants in aqueous solution at microwave frequencies. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 5419-31	3.6	27
443	Enhancement of CO ₂ Adsorption and Catalytic Properties by Fe-Doping of [Ga ₂ (OH) ₂ (L)] (H ₄ L = Biphenyl-3,3',5,5'N,N-tetracarboxylic Acid), MFM-300(Ga ₂). <i>Inorganic Chemistry</i> , 2016 , 55, 1076-88	5.1	52
442	Auophilicity under pressure: a combined crystallographic and in situ spectroscopic study. <i>Chemical Communications</i> , 2016 , 52, 6769-72	5.8	8
441	Non-Interpenetrated Metal-Organic Frameworks Based on Copper(II) Paddlewheel and Oligoparaxylene-Isophthalate Linkers: Synthesis, Structure, and Gas Adsorption. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3371-81	16.4	91
440	Synthesis and Photophysical Study of a [NiFe] Hydrogenase Biomimetic Compound Covalently Linked to a Re-diimine Photosensitizer. <i>Inorganic Chemistry</i> , 2016 , 55, 527-36	5.1	19
439	Tracking charge in metal organic frameworks promises to improve fuel cell materials. <i>Fuel Cells Bulletin</i> , 2016 , 2016, 12-13	1.6	
438	Computational Evaluation of the Impact of Incorporated Nitrogen and Oxygen Heteroatoms on the Affinity of Polyaromatic Ligands for Carbon Dioxide and Methane in Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27342-27348	3.8	6
437	Selective Hysteretic Sorption of Light Hydrocarbons in a Flexible Metal-Organic Framework Material. <i>Chemistry of Materials</i> , 2016 , 28, 2331-2340	9.6	84
436	Adsorption Properties of MFM-400 and MFM-401 with CO ₂ and Hydrocarbons: Selectivity Derived from Directed Supramolecular Interactions. <i>Inorganic Chemistry</i> , 2016 , 55, 7219-28	5.1	36
435	Proton Conduction in a Phosphonate-Based Metal-Organic Framework Mediated by Intrinsic "Free Diffusion inside a Sphere". <i>Journal of the American Chemical Society</i> , 2016 , 138, 6352-5	16.4	156
434	Amides Do Not Always Work: Observation of Guest Binding in an Amide-Functionalized Porous Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14828-14831	16.4	38
433	Selective gas adsorption in microporous metal-organic frameworks incorporating urotropine basic sites: an experimental and theoretical study. <i>Chemical Communications</i> , 2015 , 51, 13918-21	5.8	23
432	Structural aspects of metal-organic framework-based energy materials research at Diamond. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	2
431	Hirshfeld Surface Investigation of Structure-Directing Interactions within Dipicolinic Acid Derivatives. <i>Crystal Growth and Design</i> , 2015 , 15, 1697-1706	3.5	55
430	A Ni(i)Fe(ii) analogue of the Ni-L state of the active site of the [NiFe] hydrogenases. <i>Chemical Communications</i> , 2015 , 51, 16988-91	5.8	21

429	Control of Assembly of Dihydropyridyl and Pyridyl Molecules via Directed Hydrogen Bonding. <i>Crystal Growth and Design</i> , 2015 , 15, 4219-4224	3.5	9
428	Nucleation and Early Stages of Layer-by-Layer Growth of Metal Organic Frameworks on Surfaces. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23544-23551	3.8	39
427	Switching intermolecular interactions by confinement in carbon nanotubes. <i>Chemical Communications</i> , 2015 , 51, 648-51	5.8	4
426	Synthesis and characterization of chiral copper(ii) coordination polymers with 4,4'-bipyridine and lactic acid derivatives. <i>Russian Chemical Bulletin</i> , 2015 , 64, 2908-2913	1.7	1
425	Epitaxial Retrieval of a Disappearing Polymorph. <i>Crystal Growth and Design</i> , 2015 , 15, 115-123	3.5	10
424	Supramolecular binding and separation of hydrocarbons within a functionalized porous metal-organic framework. <i>Nature Chemistry</i> , 2014 , 7, 121-9	17.6	39 ¹
423	Studies on metal-organic frameworks of Cu(II) with isophthalate linkers for hydrogen storage. <i>Accounts of Chemical Research</i> , 2014 , 47, 296-307	24.3	239
422	Simultaneous adsorption of Cu(II) and SO ₄ ²⁻ ions by a novel silica gel functionalized with a ditopic zwitterionic Schiff base ligand. <i>Chemical Engineering Journal</i> , 2014 , 250, 55-65	14.7	55
421	A novel bismuth-based metal-organic framework for high volumetric methane and carbon dioxide adsorption. <i>Chemistry - A European Journal</i> , 2014 , 20, 8024-9	4.8	55
420	New Pathway for Heterogenization of Molecular Catalysts by Non-covalent Interactions with Carbon Nanoreactors. <i>Chemistry of Materials</i> , 2014 , 26, 6461-6466	9.6	22
419	Porous macromolecular dihydropyridyl frameworks exhibiting catalytic and halochromic activity. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19889-19896	13	3
418	Synthesis of metal-organic frameworks by continuous flow. <i>Green Chemistry</i> , 2014 , 16, 3796-3802	10	115
417	[NiFe] Hydrogenases 2014 , 49-78		1
416	Analysis of high and selective uptake of CO ₂ in an oxamide-containing {Cu ₂ (OOCR) ₄ } ⁿ -based metal-organic framework. <i>Chemistry - A European Journal</i> , 2014 , 20, 7317-24	4.8	105
415	A robust binary supramolecular organic framework (SOF) with high CO ₂ adsorption and selectivity. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12828-31	16.4	220
414	Photochemical dihydrogen production using an analogue of the active site of [NiFe] hydrogenase. <i>Inorganic Chemistry</i> , 2014 , 53, 4430-9	5.1	24
413	Methane Adsorption in Metal-Organic Frameworks Containing Nanographene Linkers: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15573-15580	3.8	16
412	High-pressure studies of palladium and platinum thioether macrocyclic dihalide complexes. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014 , 70, 469-86	1.8	5

411	Inelastic neutron scattering study of binding of para-hydrogen in an ultra-microporous metal-organic framework. <i>Chemical Physics</i> , 2014 , 428, 111-116	2.3	7
410	Structural chemistry of metal coordination complexes at high pressure. <i>Coordination Chemistry Reviews</i> , 2014 , 277-278, 187-207	23.2	22
409	Tuning the interactions between electron spins in fullerene-based triad systems. <i>Beilstein Journal of Organic Chemistry</i> , 2014 , 10, 332-43	2.5	8
408	Transition metal complexes of a salen-fullerene diad: redox and catalytically active nanostructures for delivery of metals in nanotubes. <i>Chemistry - A European Journal</i> , 2013 , 19, 11999-2008	4.8	15
407	Permanent porosity derived from the self-assembly of highly luminescent molecular zinc carbonate nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13414-8	16.4	37
406	Modulating the packing of [Cu ₂₄ (isophthalate) ₂₄] cuboctahedra in a triazole-containing metal-organic polyhedral framework. <i>Chemical Science</i> , 2013 , 4, 1731	9.4	117
405	Five coordinate M(II)-diphenolate [M = Zn(II), Ni(II), and Cu(II)] Schiff base complexes exhibiting metal- and ligand-based redox chemistry. <i>Inorganic Chemistry</i> , 2013 , 52, 660-70	5.1	33
404	Irreversible network transformation in a dynamic porous host catalyzed by sulfur dioxide. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4954-7	16.4	103
403	Triad and cyclic diad compounds of [60]fullerene with metallocenes. <i>Dalton Transactions</i> , 2013 , 42, 5056-5067	7	
402	Bowing to the pressure of π-π interactions: bending of phenyl rings in a palladium(II) thioether crown complex. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5093-5	16.4	16
401	Packing of Isophthalate Tetracarboxylic Acids on Au(111): Rows and Disordered Herringbone Structures. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18381-18385	3.8	9
400	Permanent Porosity Derived From the Self-Assembly of Highly Luminescent Molecular Zinc Carbonate Nanoclusters. <i>Angewandte Chemie</i> , 2013 , 125, 13656-13660	3.6	8
399	Bowing to the Pressure of π-π Interactions: Bending of Phenyl Rings in a Palladium(II) Thioether Crown Complex. <i>Angewandte Chemie</i> , 2013 , 125, 5197-5199	3.6	3
398	An efficient route to the synthesis of symmetric and asymmetric diastereomerically pure fullerene triads. <i>Tetrahedron</i> , 2012 , 68, 4976-4985	2.4	5
397	High-nucularity metal-organic nanospheres: a Cd ₆₆ ball. <i>Journal of the American Chemical Society</i> , 2012 , 134, 55-8	16.4	57
396	Redox non-innocence of thioether crowns: elucidation of the electronic structure of the mononuclear Pd(III) complexes [Pd([9]aneS ₃) ₂] ³⁺ and [Pd([18]aneS ₆)] ³⁺ . <i>Inorganic Chemistry</i> , 2012 , 51, 1450-61	5.1	15
395	Near-critical water, a cleaner solvent for the synthesis of a metal-organic framework. <i>Green Chemistry</i> , 2012 , 14, 117-122	10	43
394	Selectivity and direct visualization of carbon dioxide and sulfur dioxide in a decorated porous host. <i>Nature Chemistry</i> , 2012 , 4, 887-94	17.6	396

393	Selective CO ₂ uptake and inverse CO ₂ /C ₂ H ₂ selectivity in a dynamic bifunctional metal-organic framework. <i>Chemical Science</i> , 2012 , 3, 2993	9.4	104
392	A partially interpenetrated metal-organic framework for selective hysteretic sorption of carbon dioxide. <i>Nature Materials</i> , 2012 , 11, 710-6	27	389
391	Design and function of pre-organised outer-sphere amidopyridyl extractants for zinc(II) and cobalt(II) chlorometallates: the role of C-H hydrogen bonds. <i>Chemistry - A European Journal</i> , 2012 , 18, 7715-28	4.8	24
390	Broken symmetry and the variation of critical properties in the phase behaviour of supramolecular rhombus tilings. <i>Nature Chemistry</i> , 2011 , 4, 112-7	17.6	47
389	Increasing nuclearity of secondary building units in porous cobalt(II) metal-organic frameworks: variation in structure and H ₂ adsorption. <i>Dalton Transactions</i> , 2011 , 40, 12342-9	4.3	23
388	Encapsulation of transition metal atoms into carbon nanotubes: a supramolecular approach. <i>Chemical Communications</i> , 2011 , 47, 5696-8	5.8	21
387	Highly porous and robust scandium-based metal-organic frameworks for hydrogen storage. <i>Chemical Communications</i> , 2011 , 47, 8304-6	5.8	130
386	Pore with gate: enhancement of the isosteric heat of adsorption of dihydrogen via postsynthetic cation exchange in metal-organic frameworks. <i>Inorganic Chemistry</i> , 2011 , 50, 9374-84	5.1	83
385	High capacity gas storage by a 4,8-connected metal-organic polyhedral framework. <i>Chemical Communications</i> , 2011 , 47, 4487-9	5.8	203
384	Pore with gate: modulating hydrogen storage in metal-organic framework materials via cation exchange. <i>Faraday Discussions</i> , 2011 , 151, 19-36; discussion 95-115	3.6	46
383	Nickel: Inorganic & Coordination Chemistry 2011 ,		1
382	Osmium: Inorganic & Coordination Chemistry 2011 ,		1
381	Guest-induced growth of a surface-based supramolecular bilayer. <i>Nature Chemistry</i> , 2011 , 3, 74-8	17.6	125
380	Chapter 12: Metal Complex of Hydrogenase Active Sites. <i>RSC Energy and Environment Series</i> , 2011 , 326-386	4	
379	A piggyback ride for transition metals: encapsulation of exohedral metallofullerenes in carbon nanotubes. <i>Chemistry - A European Journal</i> , 2011 , 17, 668-74	4.8	29
378	Redox non-innocence of thioether crowns: spectroelectrochemistry and electronic structure of formal nickel(III) complexes of aza-thioether macrocycles. <i>Chemistry - A European Journal</i> , 2011 , 17, 10246-58	4.8	17
377	Modifying cage structures in metal-organic polyhedral frameworks for H ₂ storage. <i>Chemistry - A European Journal</i> , 2011 , 17, 11162-70	4.8	68
376	A mesoporous metal-organic framework constructed from a nanosized C ₃ -symmetric linker and [Cu ₂₄ (isophthalate) ₂₄] cuboctahedra. <i>Chemical Communications</i> , 2011 , 47, 9995-7	5.8	122

375	Transition metal dipicolinates as designer T-shaped building blocks. <i>CrystEngComm</i> , 2010 , 12, 1576	3.3	16
374	Exceptional thermal stability in a supramolecular organic framework: porosity and gas storage. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14457-69	16.4	281
373	Metal-organic polyhedral frameworks: high H ₂ adsorption capacities and neutron powder diffraction studies. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4092-4	16.4	269
372	Highly Connected Metal-Organic Frameworks 2010 , 131-163		2
371	Interaction of tripodal Schiff-base ligands with silver(I): structural and solution studies. <i>CrystEngComm</i> , 2010 , 12, 4176	3.3	22
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