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Synthesis, X-ray crystal structures, and gas sorption properties of pillared square grid nets based on paddle-wheel motifs: implications for hydrogen storage in porous materials

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808	Different Breathing Mechanisms in Flexible Pillared-Layered MetalOrganic Frameworks: Impact of the Metal Center.		
807	A metal-organic framework functionalized with free carboxylic acid sites and its selective binding of a Cl(H ₂ O) ₄ (-) cluster. 2005 , 127, 16362-3		202
806	Pillared-layer microporous metal-organic frameworks constructed by robust hydrogen bonds. Synthesis, characterization, and magnetic and adsorption properties of 2,2'-biimidazole and carboxylate complexes. 2005 , 44, 8836-45		140
805	Non-interpenetrated square-grid coordination polymers synthesized using an extremely long N,N'-type ligand. 2005 , 44, 8762-9		55
804	Fourfold tetraurea calix[4]arenes--potential cores for the formation of self-assembled dendrimers. 2005 , 3, 3916-25		14
803	Radical polymerisation of styrene in porous coordination polymers. 2005 , 5968-70		135
802	A discrete metallocyclic complex that retains its solvent-templated channel structure on guest removal to yield a porous, gas sorbing material. 2005 , 127, 13134-5		117
801	Zn(tbip) (H ₂ tbip= 5-tert-butyl isophthalic acid): a highly stable guest-free microporous metal organic framework with unique gas separation capability. 2006 , 128, 4180-1		418
800	PO Nets of Copper(II)-trans-1,4-Cyclohexanedicarboxylate Frameworks Based on a Paddle-Wheel Building Block and Its Enlarged Dimer. 2006 , 6, 825-828		67
799	Solvent hydrolysis leads to an unusual Cu(II) metalorganic framework. 2006 , 8, 473		46
798	The competition between acetate and pyrazolate in the formation of polynuclear Zn(II) coordination complexes. 2006 , 2479-86		45
797	Microporous metal-organic frameworks incorporating 1,4-benzeneditetrazolate: syntheses, structures, and hydrogen storage properties. 2006 , 128, 8904-13		586
796	An interweaving MOF with high hydrogen uptake. 2006 , 128, 3896-7		540
795	Effects of surface area, free volume, and heat of adsorption on hydrogen uptake in metal-organic frameworks. 2006 , 110, 9565-70		521

794	2D hydrogen-bonded square-grid coordination networks with a substitution-active metal site. 2006 , 45, 3976-82		33
793	Low-temperature adsorption of hydrogen on nanoporous aluminophosphates: effect of pore size. 2006 , 110, 9371-4		71
792	Anion separation by selective crystallization of metal-organic frameworks. 2006 , 45, 6446-52		86
791	Hydrothermal Synthesis and Structural Characterization of Novel Zn ^{II} triazoleBenzenedicarboxylate Frameworks. 2006 , 18, 525-531		93
790	A porous framework polymer based on a zinc(II) 4,4'-bipyridine-2,6,2',6'-tetracarboxylate: synthesis, structure, and "zeolite-like" behaviors. 2006 , 128, 10745-53		281
789	Two-dimensional metal-organic frameworks containing linear dicarboxylates. 2006 , 62, 808-14		59
788	Poly[bis(μ -trans-di-4-pyridylethylene- μ N:N μ)bis(nitrato- μ O,O μ)bis(μ -succinato- μ O:O μ :O μ :O μ ?)(μ -succinato- μ O:O:O μ :O μ ?)tetrahydrate]. 2006 , 62, m382-m384		
787	Poly[di-aqua-bis(μ -4,4'-bipyridine)bis(μ -5,5'-dicarboxybiphenyl-2,2'-dicarboxylato)dicobalt(II) tetrahydrate]. 2006 , 62, m1906-m1908		
786	A density functional theory study of a series of functionalized metal-organic frameworks. 2006 , 420, 256-260		38
785	Crystal structures and catalytic activities of Zn(II) compounds containing 1,3-bis(4-pyridyl)propane. 2006 , 359, 2534-2542		23
784	Effects of functionalization, catenation, and variation of the metal oxide and organic linking units on the low-pressure hydrogen adsorption properties of metal-organic frameworks. 2006 , 128, 1304-15		1555
783	Hydrogen storage in a microporous metal-organic framework with exposed Mn ²⁺ coordination sites. 2006 , 128, 16876-83		1014
782	Vapor phase inclusion of ferrocene and its derivative in a microporous metal-organic porous material and its structural characterization by single crystal X-ray diffraction. 2006 , 2759-61		74
781	Microwave synthesis of hybrid inorganic-organic porous materials: phase-selective and rapid crystallization. <i>Chemistry - A European Journal</i> , 2006 , 12, 7899-905	4.8	133
780	Molecular recognition: preorganization of a bis(pyrrole) Schiff base derivative for tight dimerization by hydrogen bonding. <i>Chemistry - A European Journal</i> , 2006 , 12, 7987-99	4.8	19
779	A microporous metal-organic framework for gas-chromatographic separation of alkanes. 2006 , 45, 1390-3		1060
778	A homochiral metal-organic material with permanent porosity, enantioselective sorption properties, and catalytic activity. 2006 , 45, 916-20		599
777	Separation of hydrocarbons with a microporous metal-organic framework. 2006 , 45, 616-9		668

776	Towards polymer-based hydrogen storage materials: engineering ultramicroporous cavities within polymers of intrinsic microporosity. 2006 , 45, 1804-7	394
775	High H ₂ adsorption by coordination-framework materials. 2006 , 45, 7358-64	663
774	Dynamic motion of building blocks in porous coordination polymers. 2006 , 45, 7226-30	216
773	Synthesis, Structure and Magnetism of Metal-Organic Framework Materials with Doubly Pillared Layers. 2006 , 2006, 4264-4270	102
772	Improved Hydrogen Storage in the Metal-Organic Framework Cu ₃ (BTC) ₂ . 2006 , 8, 293-296	166
771	A Microporous Metal-Organic Framework for Gas-Chromatographic Separation of Alkanes. 2006 , 118, 1418-1421	202
770	A Homochiral Metal-Organic Material with Permanent Porosity, Enantioselective Sorption Properties, and Catalytic Activity. 2006 , 118, 930-934	89
769	Separation of Hydrocarbons with a Microporous Metal-Organic Framework. 2006 , 118, 632-635	119
768	Towards Polymer-Based Hydrogen Storage Materials: Engineering Ultramicroporous Cavities within Polymers of Intrinsic Microporosity. 2006 , 118, 1836-1839	68
767	High H ₂ Adsorption by Coordination-Framework Materials. 2006 , 118, 7518-7524	96
766	Dynamic Motion of Building Blocks in Porous Coordination Polymers. 2006 , 118, 7384-7388	46
765	Hydrogen-adsorption Properties of a Novel Lantern-type Dinuclear Co(BDC)(DABCO) _{1/2} . 2007 , 36, 1136-1137	20
764	A Tetracarboxylate-Bridged Dicopper(II) Paddle-Wheel-Based 2-D Porous Coordination Polymer with Gas Sorption Properties. 2007 , 7, 1332-1336	74
763	Enhanced hydrogen storage capacity of high surface area zeolite-like carbon materials. 2007 , 129, 1673-9	509
762	Design and construction of a microporous metal-organic framework based on the pillared-layer motif. 2007 , 9, 545-547	63
761	Solvothermal Synthesis and Structural Characterization of New Zn-Triazole-Sulfisophthalate Frameworks. 2007 , 7, 736-740	41
760	Old materials with new tricks: multifunctional open-framework materials. 2007 , 36, 770-818	973
759	Luminescent Two- and Three-Dimensional Zinc Coordination Polymers Containing Isomers of Phenylenediacetate and a Kinked Tethering Organodiimine. 2007 , 7, 2343-2351	99

758	Anthracene array-type porous coordination polymer with host-guest charge transfer interactions in excited states. 2007 , 3142-4	140
757	Metal-organic frameworks: the young child of the porous solids family. 2007 , 170, 66-84	54
756	Ligand flexibility and framework rearrangement in a new family of porous metal-organic frameworks. 2007 , 1532-4	71
755	Synthesis, Structure Determination, and Hydrogen Sorption Studies of New Metal-Organic Frameworks Using Triazole and Naphthalenedicarboxylic Acid. 2007 , 19, 1302-1308	98
754	Rationally designed micropores within a metal-organic framework for selective sorption of gas molecules. 2007 , 46, 1233-6	458
753	Hybrid Porous Solids. 2007 , 327-374	24
752	Hydrogen storage in metal-organic frameworks. 2007 , 9, 438-448	265
751	A pillared-grid MOF with large pores based on the Cu ₂ (O ₂ CR) ₄ paddle-wheel. 2007 , 9, 449	108
750	Twelve-connected porous metal-organic frameworks with high H ₂ adsorption. 2007 , 840-2	217
749	Stabilization of the 2D inclined interpenetrated net of {[Co(bpe)(tp)(H ₂ O) ₂] _n by replacement of lattice water molecules with appropriate solvent. 2007 , 9, 199	46
748	Electrochemistry of Metal-Organic Frameworks: A Description from the Voltammetry of Microparticles Approach. 2007 , 111, 13701-13711	97
747	Simulations of Methane Adsorption and Diffusion within Alkoxy-Functionalized IRMOFs Exhibiting Severely Disordered Crystal Structures. 2007 , 111, 16618-16625	43
746	Coligand Modulated Six-, Eight-, and Ten-Connected Zn/Cd-1,2,4-Triazolate Frameworks Based on Mono-, Bi-, Tri-, Penta-, and Heptanuclear Cluster Units. 2007 , 7, 2332-2342	219
745	Photochromism of novel metal coordination polymers with 1,2-Bis(2'-methyl-5'-(carboxylic acid)-3'-thienyl)perfluorocyclopentene in the crystalline phase. 2007 , 46, 3313-21	28
744	Selective gas sorption within a dynamic metal-organic framework. 2007 , 46, 8705-9	118
743	{Ln(III)[μ ₅ -κ ₂ ,κ ₁ ,κ ₁ ,κ ₁ ,κ ₁ -1,2-(CO ₂) ₂ C ₆ H ₄][isonicotine][H ₂ O]} ₂ Cu(I) x X (Ln = Eu, Sm, Nd; X = ClO ₄ ⁻ , Cl ⁻): a new pillared-layer approach to heterobimetallic 3d-4f 3d-network solids. 2007 , 46, 10534-8	104
742	A triply interpenetrated microporous metal-organic framework for selective sorption of gas molecules. 2007 , 46, 8490-2	221
741	The potential of organic polymer-based hydrogen storage materials. 2007 , 9, 1802-8	184

740	Chemical reduction of metal-organic framework materials as a method to enhance gas uptake and binding. 2007 , 129, 9604-5		566
739	Discovery, synthesis, and characterization of an isomeric coordination polymer with pillared kagome net topology. 2007 , 46, 4371-3		88
738	Engineering void space in organic van der Waals crystals: calixarenes lead the way. 2007 , 36, 236-45		417
737	Isorecticular homochiral porous metal-organic structures with tunable pore sizes. 2007 , 46, 6843-5		146
736	Synthesis, structures and properties of nickel(II) and cobalt(II) metal-organic frameworks based on a flexible tricarboxylate ligand H ₃ TTG and different pyridyl-containing ligands. 2007 , 9, 1084		95
735	Chemistry of porous coordination polymers. 2007 , 79, 2155-2177		128
734	Copper(II), cobalt(II), and nickel(II) complexes with a bulky anthracene-based carboxylic ligand: syntheses, crystal structures, and magnetic properties. 2007 , 46, 6299-310		135
733	Metallorganische Koordinationspolymere zur adsorptiven Trennung von Propan/Propen-Gemischen. 2007 , 79, 851-855		26
732	Paddle-Wheel Zinc Carboxylate Clusters as Building Units for Metal-Organic Frameworks. 2007 , 79, 767-780		69
731	Low-temperature adsorption/storage of hydrogen on FAU, MFI, and MOR zeolites with various Si/Al ratios: effect of electrostatic fields and pore structures. <i>Chemistry - A European Journal</i> , 2007 , 13, 6502-7	4.8	44
730	Rational design of MOFs constructed from modified aromatic amino acids. <i>Chemistry - A European Journal</i> , 2007 , 13, 9399-405	4.8	46
729	Porous cobalt(II)-organic frameworks with corrugated walls: Structurally robust gas-sorption materials. 2007 , 46, 272-5		181
728	Two-step adsorption/desorption on a jungle-gym-type porous coordination polymer. 2007 , 46, 6662-5		139
727	Porous Cobalt(II)-Organic Frameworks with Corrugated Walls: Structurally Robust Gas-Sorption Materials. 2007 , 119, 276-279		26
726	Two-Step Adsorption/Desorption on a Jungle-Gym-Type Porous Coordination Polymer. 2007 , 119, 6782-6785		22
725	Microporous Metal-Organic Frameworks with High Gas Sorption and Separation Capacity. 2007 , 17, 1255-1262		297
724	Luminescent Open Metal Sites within a Metal-Organic Framework for Sensing Small Molecules. 2007 , 19, 1693-1696		846
723	Gas-Sorption Selectivity of CUK-1: A Porous Coordination Solid Made of Cobalt(II) and Pyridine-2,4-Dicarboxylic Acid. 2007 , 19, 1830-1834		195

722	First use of the maleamate(II) ligand in coordination chemistry: Dinuclear copper(II) complexes with N-donors and their interesting Organic chemistry. 2007 , 10, 318-323	15
721	Assembly and structures of five new Cu(II) complexes based on the V-shaped building block [Cu(dbsf)]. 2007 , 26, 1123-1132	27
720	A series of metal-organic frameworks constructed with arenesulfonates and 4,4'-bipy ligands. 2007 , 26, 2647-2654	22
719	From discrete entity to three-dimensional architecture: Syntheses, crystal structures and optical properties of a series of transition metal complexes constructed from 4-carboxymethylbenzoic acid and 4,4'-bipyridine. 2007 , 26, 2829-2836	13
718	Poly[(μ -trans-di-4-pyridylethylene- μ N:N?)(μ -fumarato- μ O:O?)zinc(II)]. 2007 , 63, m2205-m2205	4
717	Metal-organic frameworks New materials for hydrogen storage. 2007 , 77, 721-739	23
716	Microporous magnesium and manganese formates for acetylene storage and separation. 2007 , 2, 484-8	136
715	Mixed-valence iron(II, III) trimesates with open frameworks modulated by solvents. 2007 , 46, 7782-8	104
714	Design Requirements for Metal-Organic Frameworks as Hydrogen Storage Materials. 2007 , 111, 18794-18803	172
713	Calculating Geometric Surface Areas as a Characterization Tool for Metal Organic Frameworks. 2007 , 111, 15350-15356	446
712	Hydrogen storage in metal organic frameworks. 2007 , 17, 3154	655
711	Enantioselective chromatographic resolution and one-pot synthesis of enantiomerically pure sulfoxides over a homochiral Zn-organic framework. 2007 , 129, 12958-9	225
710	Design of scaffold-like metal-organic coordination polymers based on dinuclear zinc(II) carboxylate complexes. 2007 , 56, 225-230	6
709	Chemistry of coordination space of porous coordination polymers. 2007 , 251, 2490-2509	800
708	Metallo-supramolecular capsules. 2008 , 252, 825-841	494
707	Gas Storages in Microporous Metal-Organic Framework at Ambient Temperature. 2008 , 634, 845-847	14
706	Mixed-ligand metal-organic frameworks with large pores: gas sorption properties and single-crystal-to-single-crystal transformation on guest exchange. <i>Chemistry - A European Journal</i> , 2008 , 14, 8812-21	4.8 112
705	Hydrothermal Synthesis of Two High-dimensional Architectures Based on Bridging Ligand Pyridine-2,3-dicarboxylic Acid. 2008 , 26, 957-961	4

704	Heat of adsorption for hydrogen in microporous high-surface-area materials. 2008 , 9, 2181-4	136
703	Base-Induced Formation of Two Magnesium Metal-Organic Framework Compounds with a Bifunctional Tetratopic Ligand. 2008 , 2008, 3624-3632	267
702	Metal-Organic Frameworks (MOFs) Composed of (Triptycenedicarboxylato)zinc. 2008 , 2008, 2601-2609	30
701	Alkylzinc carboxylates as efficient precursors for zinc oxocarboxylates and sulfidocarboxylates. 2008 , 47, 573-6	61
700	Desorption studies of hydrogen in metal-organic frameworks. 2008 , 47, 2138-42	109
699	A comparison of the H ₂ sorption capacities of isostructural metal-organic frameworks with and without accessible metal sites: $[\{Zn_2(abtc)(dmf)_2\}_3]$ and $[\{Cu_2(abtc)(dmf)_2\}_3]$ versus $[\{Cu_2(abtc)\}_3]$. 2008 , 47, 7741-5	276
698	Enhancing H ₂ uptake by "close-packing" alignment of open copper sites in metal-organic frameworks. 2008 , 47, 7263-6	291
697	Alkylzinc Carboxylates as Efficient Precursors for Zinc Oxocarboxylates and Sulfidocarboxylates. 2008 , 120, 583-586	23
696	Untersuchungen der Desorption von Wasserstoff in metall-organischen Gereten. 2008 , 120, 2169-2173	12
695	A Comparison of the H ₂ Sorption Capacities of Isostructural Metal-Organic Frameworks With and Without Accessible Metal Sites: $[\{Zn_2(abtc)(dmf)_2\}_3]$ and $[\{Cu_2(abtc)(dmf)_2\}_3]$ versus $[\{Cu_2(abtc)\}_3]$. 2008 , 120, 7855-7859	42
694	Enhancing H ₂ Uptake by "Close-Packing" Alignment of Open Copper Sites in Metal-Organic Frameworks. 2008 , 120, 7373-7376	36
693	Substituent effects of pyrazine on construction of crystal structures of Zn(II)-benzoate complexes and their catalytic activities (dinuclear, trinuclear, and pentanuclear to 1-D and 2-D). 2008 , 27, 3484-3492	37
692	Characterization of organic solvents adsorption/desorption on hydrophobic porous coordination polymers and their micro-crystals aggregation on mullite support. 2008 , 234, 1-8	14
691	Syntheses, characterizations and topology analyses of two 3D copper-organic frameworks from Cu(pyzca) ₂ (pyzca = pyrazine-2-carboxylate) building block. 2008 , 11, 1136-1139	11
690	Two Pb(II) coordination polymers constructed from dicarboxamido-(2-pyridyl)-pyridine by varying ratios of mixed solvents. 2008 , 11, 1436-1440	19
689	Solvent-regulated assembly of 1-D and 2-D ZnII coordination polymers with tetrabromoterephthalate. 2008 , 11, 1405-1408	39
688	High pressure methane adsorption in the metal-organic frameworks Cu ₃ (btc) ₂ , Zn ₂ (bdc) ₂ dabco, and Cr ₃ F(H ₂ O) ₂ O(bdc) ₃ . 2008 , 112, 108-115	192
687	Structural transformation and high pressure methane adsorption of Co ₂ (1,4-bdc) ₂ dabco. 2008 , 116, 653-657	87

686	Synthesis, structures, and physical properties of metal flexible dicarboxylate frameworks with dipyridyl coligand. 2008 , 877, 36-43	13
685	Synthesis and structural characterisation of lanthanide coordination polymers featuring 4,4',6,6'-tetra-carboxy-2,2'-bipyridine and rare network topology. 2008 , 10, 1018	31
684	Further investigation of the effect of framework catenation on hydrogen uptake in metal-organic frameworks. 2008 , 130, 15896-902	141
683	Storage and sorption properties of acetylene in jungle-gym-like open frameworks. 2008 , 3, 1343-9	80
682	Hybrid porous solids: past, present, future. 2008 , 37, 191-214	5029
681	Two Zinc(II) Coordination Polymers Constructed with Rigid 1,4-Benzenedicarboxylate and Flexible 1,4-Bis(imidazol-1-ylmethyl)-2,3,5,6-tetramethylbenzene Linkers: From Interpenetrating Layers to Templated 3D Frameworks. 2008 , 8, 3200-3205	65
680	Control of the topologies and packing modes of three 2D coordination polymers through variation of the solvent ratio of a binary solvent mixture. 2008 , 10, 1211	46
679	Radical Polymerization of Vinyl Monomers in Porous Coordination Polymers: Nanochannel Size Effects on Reactivity, Molecular Weight, and Stereostructure. 2008 , 41, 87-94	180
678	Ligand-elaboration as a strategy for engendering structural diversity in porous metal-organic framework compounds. 2008 , 3672-4	85
677	Syntheses, structures, photoluminescence, and magnetic properties of phenanthrene-based carboxylic acid coordination polymers. 2008 , 47, 5162-8	42
676	Surface interactions and quantum kinetic molecular sieving for H ₂ and D ₂ adsorption on a mixed metal-organic framework material. 2008 , 130, 6411-23	408
675	Efficient hydrogen sorption in 8-connected MOFs based on trinuclear pinwheel motifs. 2008 , 47, 5355-9	51
674	Temperature-triggered gate opening for gas adsorption in microporous manganese formate. 2008 , 4697-9	62
673	Syntheses, structures, photoluminescence, and magnetic properties of nanoporous 3D lanthanide coordination polymers with 4,4'-biphenyldicarboxylate ligand. 2008 , 10, 1237	65
672	Competition between coordination network and halogen bond network formation: towards halogen-bond functionalised network materials using copper-iodobenzoate units. 2008 , 10, 1335	33
671	The current status of hydrogen storage in metal-organic frameworks. 2008 , 1, 222	386
670	Proton and water activity-controlled structure formation in zinc carboxylate-based metal organic frameworks. 2008 , 112, 7567-76	130
669	Cadmium Glutarate Coordination Polymers Containing Hydrogen-Bonding Capable Tethering Organodiimines: From Double Interpenetration to Supramolecular Cavities Containing an Unprecedented Water Tape Morphology. 2008 , 8, 3091-3097	56

668	Low-level self-assembly of open framework based on three different polyhedra: metal-organic analogue of face-centered cubic dodecaboride. 2008 , 130, 800-1	125
667	A Prototypical Zeolitic Lanthanide-Organic Framework with Nanotubular Structure. 2008 , 8, 166-168	84
666	Novel luminescent metal-organic frameworks [Eu ₂ L ₃ (DMSO) ₂ (MeOH) ₂] x 2 DMSO x 3 H ₂ O and [Zn ₂ L ₂ (DMSO) ₂] x 1.6 H ₂ O (L = 4,4'-ethyne-1,2-diylidibenzoate). 2008 , 47, 6329-35	47
665	Structure, Hydrogen Storage, and Luminescence Properties of Three 3D Metal-Organic Frameworks with NbO and PtS Topologies. 2008 , 8, 2478-2483	139
664	Control of vertex geometry, structure dimensionality, functionality, and pore metrics in the reticular synthesis of crystalline metal-organic frameworks and polyhedra. 2008 , 130, 11650-61	467
663	Synthesis, crystal structures and properties of three metal-organic supramolecular architectures based on mixed organic ligands. 2008 , 10, 1480	17
662	Unique gas and hydrocarbon adsorption in a highly porous metal-organic framework made of extended aliphatic ligands. 2008 , 6123-5	32
661	Four 3D Porous Metal-Organic Frameworks with Various Layered and Pillared Motifs. 2008 , 8, 986-994	595
660	Pseudo-polymorphism in the toluene solvate of p-tert-butylcalix[5]arene: structural and gas sorption investigation. 2008 , 32, 2095	5
659	Two-dimensional metal-organic network with an unusual 36 topology and a cubic close packing pattern. 2008 , 10, 954	19
658	Rational Design and Control of the Dimensions of Channels in a Series of 3D Pillared Metal-Organic Frameworks: Synthesis, Structures, Adsorption, and Luminescence Properties. 2008 , 8, 427-434	71
657	Novel Metal-Organic Frameworks Derived from Group II Metal Cations and Aryldicarboxylate Anionic Ligands. 2008 , 8, 911-922	117
656	Porous metal-organic framework based on μ_4 -oxo tetrazinc clusters: sorption and guest-dependent luminescent properties. 2008 , 47, 1346-51	180
655	Coordination behaviour and network formation with 4,4',6,6'-tetracarboxy-2,2'-bipyridine and 4,4'-dicarboxy-2,2'-bipyridine ligands with rare and alkaline earth metals. 2008 , 10, 68-78	52
654	Hydrogen Storage Properties of Rigid Three-Dimensional Hofmann Clathrate Derivatives: The Effects of Pore Size. 2008 , 112, 7079-7083	58
653	Metal-organic framework materials for hydrogen storage. 2008 , 288-312	4
652	Two Novel Triazole-Based Metal - Organic Frameworks Consolidated by a Flexible Dicarboxylate Co-ligand: Hydrothermal Synthesis, Crystal Structure, and Luminescence Properties. 2008 , 61, 813	8
651	Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Core-Shell Single Crystals with an In-Plane Rotational Epitaxial Relationship. 2009 , 121, 1798-1802	65

650	Enhancement of H ₂ adsorption in coordination framework materials by use of ligand curvature. <i>Chemistry - A European Journal</i> , 2009 , 15, 4829-35	4.8	106
649	Synthesis and properties of (tritycenedicarboxylato)zinc coordination networks. <i>Chemistry - A European Journal</i> , 2009 , 15, 5845-53	4.8	36
648	Facile purification of porous metal terephthalates with ultrasonic treatment in the presence of amides. <i>Chemistry - A European Journal</i> , 2009 , 15, 11730-6	4.8	48
647	Photoluminescent Porous Modular Lanthanide/Vanadium/Organic Frameworks. 2009 , 2009, 4931-4945		36
646	Schicht-für-Schicht-Flüssigphasenepitaxie von kristallinen Koordinationspolymeren an Oberflächen. 2009 , 121, 6321-6324		
645	Transformation of Ethylzinc Species to Zinc Acetate Mediated by O ₂ Activation: Reactive Oxygen-Centered Radicals Under Control. 2009 , 121, 7151-7154		16
644	Heterogeneously hybridized porous coordination polymer crystals: fabrication of heterometallic core-shell single crystals with an in-plane rotational epitaxial relationship. 2009 , 48, 1766-70		256
643	Layer-by-layer liquid-phase epitaxy of crystalline coordination polymers at surfaces. 2009 , 48, 6205-8		35
642	Transformation of ethylzinc species to zinc acetate mediated by O ₂ activation: reactive oxygen-centered radicals under control. 2009 , 48, 7017-20		43
641	Olefin epoxidation with H ₂ O ₂ in the presence of Mn(II) dicarboxylate coordination polymer catalysts. 2009 , 140, 1437-1445		13
640	Determination of absolute adsorption in highly ordered porous media. 2009 , 603, 1979-1984		52
639	Reversible sorption of hydrogen on the novel hybrid material based on mesoporous chromium(iii) terephthalate with included rhenium clusters. 2009 , 58, 1623-1626		8
638	Effect of structural and thermodynamic factors on the sorption of hydrogen by metal/organic framework compounds. 2009 , 45, 75-97		22
637	Role of the chemical structure of metal/organic framework compounds in the adsorption of hydrogen. 2009 , 45, 277-301		11
636	Structural Trends in Coordination Polymers Containing Perfluorinated Dicarboxylates and 4,4'-Bipyridine. 2009 , 635, 1753-1757		19
635	Nanoporous polymers for hydrogen storage. 2009 , 5, 1098-111		333
634	A novel threefold-interpenetrating primitive cubic network based on a dinuclear Zn ₂ node. 2009 , 65, m82-5		3
633	Influence of solvent on the structures of two one-dimensional cobalt(II) coordination polymers with tetrachloroterephthalate. 2009 , 65, m86-90		1

632	Cation-induced kinetic trapping and enhanced hydrogen adsorption in a modulated anionic metal-organic framework. 2009 , 1, 487-93	361
631	Knoevenagel condensation and cyanosilylation reactions catalyzed by a MOF containing coordinatively unsaturated Zn(II) centers. 2009 , 299, 1-4	98
630	Four copper(II) coordination polymers with a tetrachlorinated benzenedicarboxylate ligand: Solvent effect on diversiform supramolecular arrays. 2009 , 362, 2569-2576	31
629	Self-assembly of 2D zinc metal-organic frameworks based on mixed organic ligands. 2009 , 362, 3987-3992	12
628	Construction of crystal structures of metal(II) benzoates (M = Mn, Ni, Co, Cu, Zn, and Cd) and 1,2-bis(4-pyridyl)ethane: Effects of metal coordination modes and their catalytic activities. 2009 , 362, 4119-4126	29
627	Cobalt(II) coordination polymers assembled from polycarboxylate and benzotriazole: Syntheses, structures and physical properties. 2009 , 362, 4780-4784	11
626	Controlling self-assembly of zinc(II)-benzoate coordination complexes with 1,4-bis(4-pyridyl)ethane by varying solvent and ligand-to-metal ratio: Their catalytic activities. 2009 , 28, 553-561	58
625	Cobalt(II), silver(I), and lead(II) tetrabromoterephthalates exhibiting the 1-D linear chain, 2-D CdCl ₂ -type layer, and 3-D penta-nodal mixed-connecting coordination frameworks. 2009 , 28, 505-510	19
624	Metal-directed supramolecular assembly of metal(II) benzoates (M = Co, Ni, Cu, Zn, Mn, and Cd) with 4,4'-bipyridine: Effects of metal coordination modes and novel catalytic activities. 2009 , 28, 1241-1252	62
623	3D zinc(II) coordination polymers built up by triazole and benzene-polycarboxylate anions: Synthesis, crystal structure, thermal and photoluminescence characterization. 2009 , 28, 2131-2136	35
622	Versatile binding properties of di-pyridyl ligands with Cu(II) complexes: The syntheses, structural characterization and thermal analysis of six new species. 2009 , 28, 3849-3857	10
621	Metal naphthalenedicarboxylates with diverse network architectures: Synthesis, crystal structures and properties. 2009 , 28, 3759-3768	25
620	Entangled zinc(II) tetrazolate frameworks involving in situ ligand synthesis and topological modulation by various secondary N-donor ligands. 2009 , 182, 736-743	34
619	Syntheses, crystal structures, and water adsorption behaviors of jungle-gym-type porous coordination polymers containing nitro moieties. 2009 , 182, 2852-2857	25
618	Coordination polymers constructed from transition metal ions and organic N-containing heterocyclic ligands: Crystal structures and microporous properties. 2009 , 34, 240-279	142
617	Molecular dynamics simulation study on the hydrogen adsorption and diffusion in non-interpenetrating and interpenetrating IRMOFs. 2009 , 146, 216-222	9
616	A 3D photoluminescent cadmium(II)-organic framework with unusual pentanuclear cluster as secondary building unit. 2009 , 12, 211-213	23
615	A novel Zn(II) framework with 3-fold interpenetrating β -polonium topology. 2009 , 12, 371-374	4

614	A neodymium coordination polymer with mixed m-phenylenediacrylate and formate bridges: Synthesis, unprecedented topology, and magnetism. 2009 , 12, 426-429	12
613	Two d10 coordination polymers based on 4,4'-(hexafluoroisopropylidene)diphthalic acid: Syntheses, structures and physical properties. 2009 , 12, 498-501	2
612	Solvent-induced assembly of two supramolecular isomers of MnII thiophenedicarboxylate coordination polymers. 2009 , 12, 755-757	12
611	A novel luminescent 3D metal-organic framework possessing 4-fold interpenetrating (3,4)-connected net. 2009 , 12, 969-971	12
610	In situ synthesis of 5-substituted-tetrazoles and metallosupramolecular co-ordination polymers. 2009 , 11, 67-81	37
609	Self-assembly of a series of cobalt(II) coordination polymers constructed from H ₂ tbp and dipyridyl-based ligands. 2009 , 48, 915-24	209
608	Accessing postsynthetic modification in a series of metal-organic frameworks and the influence of framework topology on reactivity. 2009 , 48, 296-306	213
607	Reversible Two-Dimensional to Three Dimensional Framework Transformation within a Prototype Metal-Organic Framework. 2009 , 9, 5293-5296	91
606	Methane sorption and structural characterization of the sorption sites in Zn ₂ (bdc) ₂ (dabco) by single crystal X-ray crystallography. 2009 , 4, 886-91	62
605	Hydrogen storage in metal-organic frameworks. 2009 , 38, 1294-314	3846
604	Virtual high throughput screening confirmed experimentally: porous coordination polymer hydration. 2009 , 131, 15834-42	704
603	Unique two-fold interpenetration of 3D microporous 3d-4f heterometal-organic frameworks (HMOF) based on a rigid ligand. 2009 , 7765-70	39
602	Pillared porphyrin homologous series: intergrowth in metal-organic frameworks. 2009 , 48, 426-8	154
601	Storage of hydrogen, methane, and carbon dioxide in highly porous covalent organic frameworks for clean energy applications. 2009 , 131, 8875-83	1843
600	Cadmium Coordination Polymers Constructed from in Situ Generated Amino-Tetrazole Ligand: Effect of the Conditions on the Structures and Topologies. 2009 , 9, 5117-5127	73
599	Preparation and gas adsorption studies of three mesh-adjustable molecular sieves with a common structure. 2009 , 131, 6445-51	108
598	A three-dimensional porous metal-organic framework constructed from two-dimensional sheets via interdigitation exhibiting dynamic features. 2009 , 48, 4616-8	40
597	Stability and reactivity of grafted Cr(CO) ₃ species on MOF linkers: a computational study. 2009 , 48, 5439-48	25

596	Hydrothermal Synthesis, Structures, and Luminescent Properties of Seven d10 MetalOrganic Frameworks Based on 9,9-Dipropylfluorene-2,7-Dicarboxylic Acid (H2DFDA). 2009 , 9, 1394-1401	92
595	Structural Diversity in Coordination Polymers Composed of Divalent Transition Metals, 2,2'-Bipyridine, and Perfluorinated Dicarboxylates. 2009 , 9, 4759-4765	41
594	New Interpenetrated Copper Coordination Polymer Frameworks having Porous Properties. 2009 , 21, 5860-5866	88
593	Targeted synthesis of a prototype MOF based on Zn ₄ (O)(O ₂ C) ₆ units and a nonlinear dicarboxylate ligand. 2009 , 48, 417-9	63
592	Inorganic frameworks from selenidotetrelate anions [T ₂ Se ₆] ⁴⁻ (T = Ge, Sn): synthesis, structures, and ionic conductivity of [K ₂ (H ₂ O) ₃][MnGe ₄ Se ₁₀] and (NMe ₄) ₂ [MSn ₄ Se ₁₀] (M = Mn, Fe). 2009 , 48, 1689-98	53
591	Guest-induced irreversible sliding in a flexible 2D rectangular grid with selective sorption characteristics. 2009 , 48, 10886-8	61
590	Two 3-D Cluster-Based Frameworks: Highly Eight-Connected Molecular Topology and Magnetism. 2009 , 9, 2756-2761	66
589	Selective Gas Adsorption in One-Dimensional, Flexible CuII Coordination Polymers with Polar Units. 2009 , 21, 3346-3355	63
588	Highly Tunable Heterometallic Frameworks Constructed from Paddle-Wheel Units and Metalloporphyrins. 2009 , 9, 1960-1965	64
587	Lithium Based MetalOrganic Framework with Exceptional Stability. 2009 , 9, 2500-2503	74
586	Microwave synthesis and single-crystal-to-single-crystal transformation of magnesium coordination polymers exhibiting selective gas adsorption and luminescence properties. 2009 , 11, 1462	55
585	Hydrothermal Synthesis, Structures, and Properties of Manganese(II) and Zinc(II) Coordination Polymers with Different Phenylenediacrylates. 2009 , 9, 2310-2317	42
584	High capacity hydrogen adsorption in Cu(II) tetracarboxylate framework materials: the role of pore size, ligand functionalization, and exposed metal sites. 2009 , 131, 2159-71	670
583	Synthesis, crystal structures, and photoluminescent properties of the Cu(I)/X/alpha,omega-bis(benzotriazole)alkane hybrid family (X = Cl, Br, I, and CN). 2009 , 48, 1449-68	61
582	Adsorption and desorption of hydrogen on metal-organic framework materials for storage applications: comparison with other nanoporous materials. 2009 , 1487-505	242
581	Structural Variation in Porphyrin Pillared Homologous Series: Influence of Distinct Coordination Centers for Pillars on Framework Topology. 2009 , 9, 3327-3332	89
580	Synthesis, crystal structure and magnetism of [Mn(tfbdc)(MeOH) ₄] (tfbdc = tetrafluoroterephthalate). 2009 , 62, 2449-2456	14
579	Magnesium-based 3D metal-organic framework exhibiting hydrogen-sorption hysteresis. 2009 , 48, 8069-71	103

578	Enhanced H ₂ adsorption enthalpy in the low-surface area, partially fluorinated coordination polymer Zn ₅ (triazole) ₆ (tetrafluoroterephthalate) ₂ (H ₂ O) ₂ ·4H ₂ O. 2009 , 19, 4307	77
577	Large breathing effects in three-dimensional porous hybrid matter: facts, analyses, rules and consequences. 2009 , 38, 1380-99	1373
576	Rational design microporous pillared-layer frameworks: syntheses, structures and gas sorption properties. 2009 , 11, 177-182	50
575	Porous Coordination Polymers Towards Gas Technology. 2009 , 96-106	
574	Substituent effect on the assembly of coordination polymers containing isophthalic acid and its derivatives. 2009 , 11, 2548	78
573	Temperature and concentration control over interpenetration in a metal-organic material. 2009 , 131, 17040-1	353
572	Six Three-Dimensional Metal-Organic Frameworks with (3,4)-, (4,5)-, and (3,4,5)-Connected Nets Based on Mixed Ligands: Synthesis, Structures, and Adsorption Properties. 2009 , 9, 1481-1488	72
571	Design and Construction of Metal-Organic Frameworks for Hydrogen Storage and Selective Gas Adsorption. 2009 , 353-373	2
570	The Long Story and the Brilliant Future of Crystallized Porous Solids. 2009 , 107-134	1
569	Ionothermal synthesis of inorganic-organic hybrid materials containing perfluorinated aliphatic dicarboxylate ligands. 2009 , 1131-5	26
568	Immobilization of Alkali Metal Ions in a 3D Lanthanide-Organic Framework: Selective Sorption and H ₂ Storage Characteristics. 2009 , 21, 5406-5412	53
567	A block PCP crystal: anisotropic hybridization of porous coordination polymers by face-selective epitaxial growth. 2009 , 5097-9	136
566	Highly tunable metal-organic frameworks with open metal centers. 2009 , 11, 553-555	165
565	Hydrogen, methane and carbon dioxide adsorption in metal-organic framework materials. 2010 , 293, 35-76	104
564	Porous Metal Organic Frameworks. 2009 , 77-99	9
563	A new luminescent 3D metal-organic framework possessing a rare (3,5)-connected net which can be transformed from a 2D double layer. 2009 , 763-6	38
562	Synthesis, supramolecular structures and catalytic properties of nickel(II) 3-sulfobenzoate complexes with chelating amine ligands. 2009 , 11, 2500	22
561	The first observation of a Na ₂ TiS ₂ related structure in a 2-D anionic manganese trimesate intercalated by cationic imidazole,. 2009 , 11, 560	8

560	Two eight-connected self-penetrating porous metal-organic frameworks: configurational isomers caused by different linking modes between terephthalate and binuclear nickel building units. 2009 , 11, 274-277	65
559	MOF@MOF: microporous core-shell architectures. 2009 , 6162-4	242
558	A bimetallic pillared-layer metal-organic coordination framework with a 3D biporous structure. 2009 , 4426-8	12
557	Assembly of nanoporous organic materials from molecular building blocks. 2009 , 19, 1781	68
556	Self-assembly of metal-organic coordination polymers constructed from a bent dicarboxylate ligand: diversity of coordination modes, structures, and gas adsorption. 2009 , 48, 11067-78	74
555	A large-surface-area boracite-network-topology porous MOF constructed from a conjugated ligand exhibiting a high hydrogen uptake capacity. 2009 , 48, 7519-21	62
554	Microporous Metal-Organic Frameworks as Functional Materials for Gas Storage and Separation. 2009 , 307-352	2
553	New opportunities for materials synthesis using mechanochemistry. 2010 , 20, 7599	258
552	Metal-organic coordination polymers based on a flexible tetrahydrofuran-2,3,4,5-tetracarboxylate ligand: syntheses, crystal structures, and magnetic/photoluminescent properties. 2010 , 12, 853-865	28
551	Synthesis, crystal structures, luminescent and thermal properties of two new metal-organic coordination polymers based on zinc(II) carboxylates. 2010 , 34, 2445	31
550	Ligand dependent topology changes in six zinc coordination polymers. 2010 , 12, 711-719	32
549	CO ₂ adsorption, selectivity and water tolerance of pillared-layer metal organic frameworks. 2010 , 132, 305-310	97
548	A Novel Hydrogen-Bonded 3D Network with Unusual Coordination Mode. 2010 , 40, 837-840	3
547	Hydrogen storage in metal-organic frameworks. 2010 , 22, E117-30	305
546	Tuning hydrogen sorption properties of metal-organic frameworks by postsynthetic covalent modification. <i>Chemistry - A European Journal</i> , 2010 , 16, 212-7	4.8 126
545	Synthesis of a metal-organic framework material, iron terephthalate, by ultrasound, microwave, and conventional electric heating: a kinetic study. <i>Chemistry - A European Journal</i> , 2010 , 16, 1046-52	4.8 245
544	Structures and H ₂ adsorption properties of porous scandium metal-organic frameworks. <i>Chemistry - A European Journal</i> , 2010 , 16, 13671-9	4.8 71
543	Ion- and Liquid-Assisted Grinding: Improved Mechanochemical Synthesis of Metal-Organic Frameworks Reveals Salt Inclusion and Anion Templating. 2010 , 122, 724-727	74

542	Solid Solutions of Soft Porous Coordination Polymers: Fine-Tuning of Gas Adsorption Properties. 2010 , 122, 4930-4934	55
541	Coordinatively Immobilized Monolayers on Porous Coordination Polymer Crystals. 2010 , 122, 5455-5458	30
540	Ion- and liquid-assisted grinding: improved mechanochemical synthesis of metal-organic frameworks reveals salt inclusion and anion templating. 2010 , 49, 712-5	290
539	Solid solutions of soft porous coordination polymers: fine-tuning of gas adsorption properties. 2010 , 49, 4820-4	273
538	Coordinatively immobilized monolayers on porous coordination polymer crystals. 2010 , 49, 5327-30	121
537	Coordination steric effect of N,N-dimethylformamide, N,N-dimethylacetamide and N-methyl-2-pyrrolidone on the assembly of coordination polymers. 2010 , 29, 2851-2856	8
536	Vapor-phase adsorption of alkylaromatics on aluminum-trimesate MIL-96: An unusual increase of adsorption capacity with temperature. 2010 , 129, 274-277	22
535	Blue Fluorescence Emission Property of a Metal-Organic Coordination Polymer with One-Dimensional Channels'. 2010 , 636, 1133-1136	9
534	Manipulation of Molecular and Supramolecular Structure in Cobalt(II) Complexes with Tetrachloroterephthalate through the Influence of Different Solvents. 2010 , 636, 1629-1634	4
533	Three New Supramolecular Complexes Based on 2-Propyl-1H-imidazole-4,5-dicarboxylate: Synthesis, Structures and Properties. 2010 , 636, 2481-2486	8
532	. 2010 ,	280
531	catena-Poly[[[dipyridine-copper(II)]- μ_2 ,3,5,6-tetra-methyl-benzene-1,4-di-carboxyl-ato] monohydrate]. 2010 , 66, m1301	
530	Unveiling thermal transitions of polymers in subnanometre pores. 2010 , 1, 83	164
529	Synthesis, Molecular Structure, and Characterizations of a Novel 3D Network Cadmium Complex. 2010 , 40, 662-668	2
528	Interpenetrating and Self-Penetrating Zinc(II) Complexes with Rigid Tripodal Imidazole-Containing Ligand and Benzenedicarboxylate. 2010 , 10, 1911-1922	147
527	Structures and properties of porous coordination polymers based on lanthanide carboxylate building units. 2010 , 49, 10781-7	128
526	DABCO-functionalized metal-organic framework bearing a C _{2h} -symmetric terphenyl dicarboxylate linker. 2010 , 39, 5608-10	52
525	Synthesis and structural comparisons of five new fluorinated metal organic frameworks (F-MOFs). 2010 , 12, 1600	51

524	Rational Assembly of d10 Metal-Organic Frameworks with Helical Nanochannels Based on Flexible V-Shaped Ligand. 2010 , 10, 806-811	84
523	Synthesis of isostructural porous metal-benzenedicarboxylates: Effect of metal ions on the kinetics of synthesis. 2010 , 12, 2749	41
522	Controlled Synthesis of Isomorphous Coordination Polymers via in Situ Ligand Transformation Reaction: Crystal Structure, Thermal and Magnetic Properties. 2010 , 10, 4060-4067	38
521	Nonclassical active site for enhanced gas sorption in porous coordination polymer. 2010 , 132, 6654-6	283
520	Monitoring adsorption-induced switching by (129)Xe NMR spectroscopy in a new metal-organic framework Ni(2)(2,6-ndc)(2)(dabco). 2010 , 12, 11778-84	118
519	Dimensionality Trends in Metal-Organic Frameworks Containing Perfluorinated or Nonfluorinated Benzenedicarboxylates. 2010 , 10, 2041-2043	85
518	A Microporous Metal-Organic Framework Based on [2 + 2] Parallel and Inclined Interpenetrated 2D Sheets Interconnected by an Auxiliary Linker. 2010 , 10, 3222-3227	5
517	Regulation and Properties of Diversiform Cd(II) Supramolecular Complexes with a Bulky Naphthalene-Based Dicarboxyl Tecton and Different N-Donor Co-Ligands. 2010 , 10, 4773-4785	61
516	Synthesis, crystal structure, and luminescence of a new zinc(II) coordination polymer based on 2-naphthol-5-carboxylate and 4,4'-bipyridine. 2010 , 63, 3541-3550	3
515	A series of (6,6)-connected porous lanthanide-organic framework enantiomers with high thermostability and exposed metal sites: scalable syntheses, structures, and sorption properties. 2010 , 49, 10001-6	136
514	Two-step adsorption on jungle-gym-type porous coordination polymers: dependence on hydrogen-bonding capability of adsorbates, ligand-substituent effect, and temperature. 2010 , 49, 10133-43	59
513	Control over interpenetration in lanthanide-organic frameworks: synthetic strategy and gas-adsorption properties. 2010 , 49, 7605-7	118
512	Coordination copolymerization mediated by Zn ₄ O(CO ₂ R) ₆ metal clusters: a balancing act between statistics and geometry. 2010 , 132, 15005-10	127
511	Topologies of metal-organic frameworks based on pyrimidine-5-carboxylate and unexpected gas-sorption selectivity for CO(2). 2010 , 49, 10833-9	35
510	Ligand-Directed Assembly of Asymmetric 1,3,5-Triazine Ligands Containing Pyridyl and Hydroxyl Groups. 2010 , 10, 4934-4942	11
509	Microporous lanthanide-organic frameworks with open metal sites: unexpected sorption propensity and multifunctional properties. 2010 , 49, 4723-5	63
508	Insight into the Development of Metal-Organic Materials (MOMs): At Zeolite-Like Metal-Organic Frameworks (ZMOFs). 2010 , 37-89	8
507	Hydrogen and Methane Storage in Metal-Organic Frameworks. 2010 , 249-266	15

506	How do substituent groups in the 5-position of 1,3-benzenedicarboxylate affect the construction of supramolecular frameworks?. 2010 , 12, 3708	46
505	Stepwise and hysteretic sorption of N(2), O(2), CO(2), and H(2) gases in a porous metal-organic framework [Zn(2)(BPnDC)(2)(bpy)]. 2010 , 46, 610-2	137
504	Solvent-free porous framework resulted from 3D entanglement of 1D zigzag coordination polymer. 2010 , 34, 2392	7
503	Counterion-induced controllable assembly of 2D and 3D metal-organic frameworks: effect of coordination modes of dinuclear Cu(II) paddle-wheel motifs. 2010 , 12, 3815	32
502	A metal-organic framework with coordinatively unsaturated metal centers and microporous structure. 2010 , 12, 2347	22
501	Design and constructions of three novel metal-organic frameworks based on pillared-layer motifs. 2010 , 12, 567-572	15
500	Optimized synthesis of tetrafluoroterephthalic acid: a versatile linking ligand for the construction of new coordination polymers and metal-organic frameworks. 2010 , 49, 9350-7	28
499	Synthesis and characterization of metal complexes with a mixed 4-imidazole-containing ligand and a variety of multi-carboxylic acids. 2010 , 12, 3091	51
498	Spontaneous resolution of two homochiral ferroelectric cadmium(II) frameworks and an achiral framework from a one-pot reaction involving achiral rigid ligands. 2010 , 12, 2040	70
497	pH-dependent solvothermal formation of two different 3D multiple interpenetrating nets from the same components of Zn(NO ₃) ₂ , 1,3-benzenedicarboxylate and 1,4-bis[2-(4-pyridyl)ethenyl]benzene. 2010 , 12, 1912	70
496	Anion- and auxiliary ligand-directed synthesis of cadmium(II) complexes with 3,5-di(1H-imidazol-1-yl)benzoate. 2011 , 13, 1539-1549	44
495	Synthesis, crystal structures and properties of four topological structures based on 2,3,5,6-tetramethyl-1,4-benzenedicarboxylate acid and bipyridine ligands. 2011 , 13, 1509-1517	13
494	Metal-organic frameworks with rare topologies: lonsdaleite-type metal formates and their magnetic properties. 2011 , 13, 2197	15
493	Five three/two-fold interpenetrating architectures from self-assembly of fluorene-2,7-dicarboxylic acid derivatives and d10 metals. 2011 , 13, 2935	31
492	Multiple phase-transitions upon selective CO ₂ adsorption in an alkyl ether functionalized metal-organic framework in situ X-ray diffraction study. 2011 , 13, 6399	45
491	A mesoporous metal-organic framework constructed from a nanosized C ₃ -symmetric linker and [Cu ₂₄ (isophthalate) ₂₄] cuboctahedra. 2011 , 47, 9995-7	122
490	Three Two-Folded Interpenetrating 3D Metal-Organic Frameworks Consisting of Dinuclear Metal Units: Syntheses, Structures, and Magnetic Properties. 2011 , 11, 4517-4524	41
489	Syntheses, Structures, and Gas Adsorption Properties of Two Novel Cadmium-Sodium Organic Frameworks with 1,3,5-Benzenetricarboxylate Ligands. 2011 , 11, 3529-3535	22

488	Selective Incorporation of Auxiliary Organic Ligands in Metal-Organic Frameworks Based on Twisted T-Shaped Building Blocks. 2011 , 11, 5167-5170	5
487	Size- and shape-selective isostructural microporous metal-organic frameworks with different effective aperture sizes. 2011 , 50, 5044-53	36
486	Coordination Polymers of 5-(2-Amino/Acetamido-4-carboxyphenoxy)-benzene-1,3-dioic Acids with Transition Metal Ions: Synthesis, Structure, and Catalytic Activity. 2011 , 11, 2621-2636	48
485	Gated channels in a honeycomb-like zinc-dicarboxylate-bipyridine framework with flexible alkyl ether side chains. 2011 , 133, 2064-7	147
484	A series of three-dimensional lanthanide(III) coordination polymers of 2,5-dihydroxy-1,4-benzenedicarboxylic acid based on dinuclear lanthanide units. 2011 , 13, 4981	34
483	Hydrogen Energy. 2011 , 495-629	1
482	Nanotubular metal-organic frameworks with high porosity based on T-shaped pyridyl dicarboxylate ligands. 2011 , 50, 1743-8	100
481	Synergistic catalysis of Au@Ag core-shell nanoparticles stabilized on metal-organic framework. 2011 , 133, 1304-6	781
480	A Series of Two-Dimensional Co(II), Mn(II), and Ni(II) Coordination Polymers with Di- or Trinuclear Secondary Building Units Constructed by 1,1'-Biphenyl-3,3'-Dicarboxylic Acid: Synthesis, Structures, and Magnetic Properties. 2011 , 11, 2874-2888	73
479	Solvothermal Synthesis, Structure, and Properties of Metal Organic Framework Isomers Derived from a Partially Fluorinated Link. 2011 , 11, 1215-1222	79
478	Assembly Chemistry of Coordination Polymers. 2011 , 207-225	4
477	Dicarboxylate-bridged (Mo ₂) _n (n = 2, 3, 4) paddle-wheel complexes: potential intermediate building blocks for metal-organic frameworks. 2011 , 40, 11490-6	15
476	Selective incorporation of functional dicarboxylates into zinc metal-organic frameworks. 2011 , 47, 3380-2	51
475	Temperature-controlled synthesis of two novel coordination polymers modeled by semi-rigid tetrapyridines. 2011 , 13, 7025	28
474	Hydrogen Adsorption and Storage. 2011 , 157-245	3
473	Crystal Engineering of Metal-Organic Frameworks for Heterogeneous Catalysis. 2011 , 271-298	5
472	Isorecticular expansion of metal-organic frameworks with triangular and square building units and the lowest calculated density for porous crystals. 2011 , 50, 9147-52	263
471	Solvent and temperature influence structural variation from nonporous 2D -> 3D parallel polycatenation to 3D microporous metal-organic framework. 2011 , 13, 3971	38

470	Syntheses, Characterization, and Properties of Three-Dimensional Pillared Frameworks with Entanglement. 2011 , 11, 1159-1169	82
469	Syntheses, structures, photoluminescence and magnetic properties of four new metal-organic frameworks based on imidazole ligands and aromatic polycarboxylate acids. 2011 , 13, 857-865	46
468	Synthesis and structural characterization of three zinc coordination complexes based on 3,5-dimethylpyrazole and carboxylate ligands. 2011 , 64, 1940-1952	12
467	Controlling the shifting degree of interpenetrated metal-organic frameworks by modulator and temperature and their hydrogen adsorption properties. 2011 , 47, 2556-8	51
466	MOF-on-MOF heteroepitaxy: perfectly oriented $[Zn_2(ndc)_2(dabco)]_n$ grown on $[Cu_2(ndc)_2(dabco)]_n$ thin films. 2011 , 40, 4954-8	134
465	An interpenetrated metal-organic framework and its gas storage behavior: simulation and experiment. 2011 , 50, 11055-63	40
464	Coordination Polymers with Tetrafluoroterephthalate as Bridging Ligand. 2011 , 11, 5053-5063	37
463	Mixed-component metal-organic frameworks (MC-MOFs): enhancing functionality through solid solution formation and surface modifications. 2011 , 13, 3623	308
462	From molecules to materials: molecular paddle-wheel synthons of macromolecules, cage compounds and metal-organic frameworks. 2011 , 40, 6834-59	141
461	End-functionalization of a vinylidene fluoride oligomer in coordination nanochannels. 2011 , 21, 8021	7
460	Structural Isomerism and Effect of Fluorination on Gas Adsorption in Copper-Tetrazolate Based Metal Organic Frameworks. 2011 , 23, 2908-2916	73
459	Structural, magnetic, and gas adsorption study of a series of partially fluorinated metal-organic frameworks (HF-MOFs). 2011 , 50, 3855-65	80
458	Pore with gate: modulating hydrogen storage in metal-organic framework materials via cation exchange. 2011 , 151, 19-36; discussion 95-115	46
457	Structure, adsorption and magnetic properties of chiral metal-organic frameworks bearing linear trinuclear secondary building blocks. 2011 , 40, 1911-8	42
456	Lanthanide, Y and Sc MOFs: where amazing crystal structures meet outstanding material properties. 2011 , 13, 5031	34
455	Supramolecular Assembly of Calcium Metal-Organic Frameworks with Structural Transformations. 2011 , 11, 699-708	84
454	Synthesis, crystal structure, and luminescent property of a three-dimensional (3d) microporous Cd(II) metal-organic framework (MOF) based on mixed ligands. 2011 , 14, 1952-1956	13
453	Simulation of the hydrogen storage in nanoporous carbons with different pore shapes. 2011 , 36, 10748-10759	58

- 452 Flexible and hydrophobic Zn-based metal-organic framework. **2011**, 50, 8367-74 66
- 451 Two Novel Zinc(II) Metal-Organic Frameworks Based on Triazole-Carboxylate Shared Paddle-Wheel Units: Synthesis, Structure, and Gas Adsorption. **2011**, 11, 2811-2816 37
- 450 Investigation of porous Ni-based metal-organic frameworks containing paddle-wheel type inorganic building units via high-throughput methods. **2011**, 50, 5085-97 172
- 449 Soft porous crystal meets TCNQ: charge transfer-type porous coordination polymers. **2011**, 21, 5537 53
- 448 Chemistry of SURMOFs: layer-selective installation of functional groups and post-synthetic covalent modification probed by fluorescence microscopy. **2011**, 133, 1734-7 115
- 447 Soft secondary building unit: dynamic bond rearrangement on multinuclear core of porous coordination polymers in gas media. **2011**, 133, 9005-13 160
- 446 Layered and pillar-layered metal-organic frameworks based on pinwheel trinuclear zinc-carboxylate clusters. **2011**, 13, 2721 28
- 445 A new 2D rhombic network metal-organic framework: $(\text{H}_3\text{O}^+)[\text{In}(\text{Tbip})_2] \cdot \text{H}_2\text{O}$ ($\text{H}_2\text{Tbip} = 5\text{-tert-butylisophthalic acid}$). **2011**, 37, 748-751 1
- 444 The next chapter in MOF pillaring strategies: trigonal heterofunctional ligands to access targeted high-connected three dimensional nets, isorecticular platforms. **2011**, 133, 17532-5 139
- 443 Porous Interpenetrating Metal-Organic Frameworks with Hierarchical Nodes. **2011**, 11, 1798-1806 35
- 442 Experimental and computational approach of understanding the gas adsorption in amino functionalized interpenetrated metal organic frameworks (MOFs). **2011**, 21, 17737 48
- 441 The first porous MOF with photoswitchable linker molecules. **2011**, 40, 4217-22 149
- 440 A highly porous flexible Metal-Organic Framework with corundum topology. **2011**, 47, 490-2 49
- 439 Synthesis, crystal structure and properties of novel isostructural two-dimensional lanthanide-based coordination polymers with 2,3,5,6-tetrafluoro-1,4-benzenedicarboxylic acid. **2011**, 365, 196-203 26
- 438 Hexamethylenetetramine: An old new building block for design of coordination polymers. **2011**, 255, 1603-1622 135
- 437 A series of 3D μ f heterometallic frameworks comprising 2D lanthanide-organic layers and diverse Cu-complex pillars. **2011**, 54, 1407-1417 4
- 436 Liquid-phase epitaxy of metal organic framework thin films. **2011**, 54, 1851-1866 41
- 435 A new one-dimensional hybrid material lattice: AC conductivity and structural characterization of $[\text{C}_7\text{H}_{12}\text{N}_2][\text{CdCl}_4]$. **2011**, 17, 145-155 16

434	Synthesis and Structural Characterization of Four Zinc Complexes Containing 3,5-Dimethylpyrazole and Carboxylate Ligands. 2011 , 637, 618-625			15
433	A Systematic Approach to Building Highly Porous, Noninterpenetrating Metal-Organic Frameworks with a Large Capacity for Adsorbing H ₂ and CH ₄ . 2011 , 21, 993-998			64
432	The Effect of Methyl Functionalization on Microporous Metal-Organic Frameworks' Capacity and Binding Energy for Carbon Dioxide Adsorption. 2011 , 21, 4754-4762			98
431	Pore surface tailored SOD-type metal-organic zeolites. 2011 , 23, 1268-71			228
430	Hydrogen Adsorption on Metal Organic Framework Materials for Storage Applications. 2011 , 245-281			1
429	Synthesis, Structures, and Adsorption Properties of Two New La(III)/Mg(II) Heterometallic Polymers. 2011 , 2011, 5299-5304			9
428	Oberflächenchemie Metall-organischer Gerüste an der Flüssig-fest-Grenzfläche. 2011 , 123, 184-208			43
427	Surface chemistry of metal-organic frameworks at the liquid-solid interface. 2011 , 50, 176-99			276
426	Liquid-phase epitaxy of multicomponent layer-based porous coordination polymer thin films of [M(L)(P) _{0.5}] type: importance of deposition sequence on the oriented growth. <i>Chemistry - A European Journal</i> , 2011 , 17, 1448-55	4.8		141
425	The route to a feasible hydrogen-storage material: MOFs versus ammonia borane. <i>Chemistry - A European Journal</i> , 2011 , 17, 10184-207	4.8		53
424	Rational design of zinc-organic coordination polymers directed by N-donor co-ligands. <i>Chemistry - A European Journal</i> , 2011 , 17, 8630-42	4.8		56
423	Thiodiacetate-manganese chemistry with N ligands: unique control of the supramolecular arrangement over the metal coordination mode. <i>Chemistry - A European Journal</i> , 2011 , 17, 10600-17	4.8		24
422	Two coordinated-solvent directed zinc(II) coordination polymers with rare graph topological 3D framework and 1D zigzag chain. 2011 , 14, 300-303			24
421	Three-component reactions leading to 2D and 3D metal-organic frameworks assembled on dinickel-carboxylate secondary building units. 2011 , 30, 47-52			8
420	Ag(I) and Zn(II) coordination polymers with a bulky naphthalene-based dicarboxylate tecton and different 4,4'-bipyridyl-like bridging co-ligands: structural regulation and properties. 2011 , 40, 4527-41			45
419	Synthesis, Crystal Structure, and Electrochemical Property of the Complex [Co(tfbdc)(DMF) ₂ (H ₂ O) ₂] (tfbdc = Tetrafluoroterephthalate; DMF = N,N-Dimethylformamide). 2011 , 41, 1299-1304			1
418	Clean and Efficient Synthesis Using Mechanochemistry: Coordination Polymers, Metal-Organic Frameworks and Metallodrugs. 2012 , 85, 367-378			55
417	Synthesis, Crystal Structure, and Luminescent Properties of a Novel Cadmium Coordination Polymer. 2012 , 42, 1246-1250			

416	Bis[6-(1H-benzimidazol-2-yl- κ N)pyridine-2-carboxylato- κ N,O]cobalt(II) dihydrate. 2012 , 68, m74	
415	Adjusting the stability of metal-organic frameworks under humid conditions by ligand functionalization. 2012 , 28, 16874-80	143
414	Functional group effects on metal-organic framework topology. 2012 , 48, 9370-2	42
413	Metal oxo cluster-based coordination polymers with rigid 1,4-naphthalenedicarboxylate and semirigid 1,3-di(4-pyridyl)propane ligands: syntheses, structural topologies, and luminescent properties. 2012 , 14, 7245	24
412	Supramolecular architectures based on various macrocyclic metallic tectons with 1,3,5-triazine-2,4,6-triamine hexaacetic acid ligand. 2012 , 14, 3271	24
411	Variable architectures of Zinc coordination polymers modeled by tetra-pyridine ligands with different anions. 2012 , 14, 6770	9
410	Dimensionality transformation through paddlewheel reconfiguration in a flexible and porous Zn-based metal-organic framework. 2012 , 134, 20466-78	73
409	Understanding the Effect of Trace Amount of Water on CO ₂ Capture in Natural Gas Upgrading in Metal-Organic Frameworks: A Molecular Simulation Study. 2012 , 51, 10031-10038	60
408	Metal-organic frameworks constructed from flexible V-shaped ligands: adjustment of the topology, interpenetration and porosity via a solvent system. 2012 , 48, 10016-8	92
407	Diversity of carboxylate binding in a new tetranuclear zinc cluster: correlation between spectroscopic investigations and carboxylate binding modes. 2012 , 2, 1774	18
406	Selective CO ₂ adsorption in a metal-organic framework constructed from an organic ligand with flexible joints. 2012 , 48, 9168-70	54
405	Zinc-1,4-benzenedicarboxylate-bipyridine frameworks linker functionalization impacts network topology during solvothermal synthesis. 2012 , 22, 909-918	40
404	Phenyl ring dynamics in a tetraphenylethylene-bridged metal-organic framework: implications for the mechanism of aggregation-induced emission. 2012 , 134, 15061-70	327
403	A New 10-Connected Coordination Network with Pentanuclear Zinc Clusters as Secondary Building Units. 2012 , 12, 1064-1068	84
402	Apparent Colossal Dielectric Constants in Nanoporous Metal Organic Frameworks. 2012 , 116, 13026-13032	26
401	Novel MnII coordination compounds constructed from benzoate and various bipyridyl ligands: Magnetic property and catalytic activity. 2012 , 42, 282-290	23
400	Near-critical water, a cleaner solvent for the synthesis of a metal-organic framework. 2012 , 14, 117-122	43
399	Analogous porous metal-organic frameworks: synthesis, stability and application in adsorption. 2012 , 14, 7099	160

398	Rational Synthesis of Metal-Organic Framework Nanocubes and Nanosheets Using Selective Modulators and Their Morphology-Dependent Gas-Sorption Properties. 2012 , 12, 3091-3095	118
397	Spontaneously resolved 2D chiral kagom[Cu(II) coordination polymer. 2012 , 21, 72-75	10
396	Synthesis, structural analysis and magnetic property of a chiral Mn(II) coordination polymer. 2012 , 23, 31-36	3
395	Ligand-based solid solution approach to stabilisation of sulphonic acid groups in porous coordination polymer Zr ₆ O ₄ (OH) ₄ (BDC) ₆ (UiO-66). 2012 , 41, 13791-4	141
394	Syntheses, structures, photoluminescence, and magnetic properties of (3,6)- and 4-connected lanthanide metal-organic frameworks with a semirigid tricarboxylate ligand. 2012 , 41, 4772-9	45
393	The biocompatibility of metal-organic framework coatings: an investigation on the stability of SURMOFs with regard to water and selected cell culture media. 2012 , 28, 6877-84	61
392	Rotational flexibility of bridging ligands in paddlewheel layer-pillar metal-organic frameworks studied by quantum calculations. 2012 , 1001, 33-38	
391	Geometry analysis and systematic synthesis of highly porous isorecticular frameworks with a unique topology. 2012 , 3, 642	139
390	The effect of carboxylate and N,N'-ditopic ligand lengths on the structures of copper and zinc coordination polymers. 2012 , 14, 3658	36
389	Porous coordination polymers constructed from anisotropic metal-carboxylate-pyridyl clusters. 2012 , 85, 405-416	12
388	In situ syntheses, crystal structures and magnetic properties of CuII and MnII coordination assemblies based on a novel heteroalicyclic dicarboxylate tecton and N-donor co-ligands. 2012 , 14, 160-168	6
387	Gas sorption and luminescence properties of a terbium(III)-phosphine oxide coordination material with two-dimensional pore topology. 2012 , 41, 8003-9	36
386	From Nonporous to Porous Doubly-Pillared-Layer Framework: Control over Interpenetration via Shape Alteration of Layer Apertures. 2012 , 12, 1626-1631	20
385	Synthesis, structures, and properties of alkali and alkaline earth coordination polymers based on V-shaped ligand. 2012 , 14, 6812	28
384	Systematic Investigation of Porous Inorganic-Organic Hybrid Compounds with Photo-Switchable Properties. 2012 , 638, 2138-2143	10
383	Swelling Hybrid Solids. 2012 , 638, 1897-1909	27
382	Combination of magnetic susceptibility and electron paramagnetic resonance to monitor the 1D to 2D solid state transformation in flexible metal-organic frameworks of Co(II) and Zn(II) with 1,4-bis(triazol-1-ylmethyl)benzene. 2012 , 51, 4403-10	34
381	Single-atom ligand changes affect breathing in an extended metal-organic framework. 2012 , 51, 5671-6	54

380	Synthesis of metal-organic frameworks (MOFs): routes to various MOF topologies, morphologies, and composites. 2012 , 112, 933-69	3128
379	Hydrogen storage in metal-organic frameworks. 2012 , 112, 782-835	2988
378	Orbital directing effects in copper and zinc based paddle-wheel metal organic frameworks: the origin of flexibility. 2012 , 22, 10249	50
377	Solvent-Dependent Assemblies of Trinuclear Copper Cluster into Variable Frameworks Based on Mixed Ligands of Polyalcohol Amines and Organic Carboxylates. 2012 , 12, 3619-3630	28
376	Three- and Eight-Fold Interpenetrated ThSi ₂ Metal-Organic Frameworks Fine-Tuned by the Length of Ligand. 2012 , 12, 2902-2907	57
375	Microporous Mixed-Metal Layer-Pillared [Zn _{1-x} Cu _x (bdc)(dabco) _{0.5}] MOFs: Preparation and Characterization. 2012 , 2012, 1688-1695	39
374	Directing the breathing behavior of pillared-layered metal-organic frameworks via a systematic library of functionalized linkers bearing flexible substituents. 2012 , 134, 9464-74	362
373	Commensurate adsorption of hydrocarbons and alcohols in microporous metal organic frameworks. 2012 , 112, 836-68	929
372	Stability and Hydrolyzation of Metal Organic Frameworks with Paddle-Wheel SBUs upon Hydration. 2012 , 24, 3153-3167	300
371	Modular design of domain assembly in porous coordination polymer crystals via reactivity-directed crystallization process. 2012 , 134, 13341-7	87
370	Enantiomerenreine D ₃ h-Schichten auf der Basis Metall-organischer Gerüste: orientiertes Wachstum von SURMOFs und enantioselektive Adsorption. 2012 , 124, 831-835	18
369	Synthesis, Crystal Structures and Electrochemical Properties of Complexes [M(ImH) ₄ (tfbdc)(H ₂ O)] (M=Co, Ni). 2012 , 30, 1045-1051	8
368	Homochiral metal-organic frameworks for asymmetric heterogeneous catalysis. 2012 , 112, 1196-231	2556
367	Mechanochemistry: opportunities for new and cleaner synthesis. 2012 , 41, 413-47	1832
366	Unusual Very Strong O-H...O Hydrogen Bonding in Zinc Complex: Crystal Structure and Photoluminescence of [Zn(HL)(bpy) ₂ (H ₂ O)] ₂ (L) (L = O ₂ C(CF ₂) ₆ CO ₂ , bpy = 2,2'-bipyridine). 2012 , 42, 832-838	6
365	A novel 3D (4,5,14)-connected layer-pillared metal-organic framework containing rare planar hexanuclear cadmium(II) clusters. 2012 , 20, 312-316	11
364	A new aluminium-based microporous metal-organic framework: Al(BTB) (BTB=1,3,5-benzenetrisbenzoate). 2012 , 157, 50-55	53
363	Fabrication of a CO ₂ -selective membrane by stepwise liquid-phase deposition of an alkylether functionalized pillared-layered metal-organic framework [Cu ₂ L ₂ P] _n on a macroporous support. 2012 , 150, 76-82	85

362	Syntheses, structures, and hydrogen adsorption properties of microporous metal-organic frameworks incorporating 3,5-dipyridyl-1,2,4-triazole. 2012 , 156, 202-208		9
361	Construction of 3D supramolecular networks based on 1D chains from flexible bis(imidazolyl) and 4-hydroxybenzoate. 2012 , 1008, 63-68		4
360	Tuning structural topology of zinc(II)-benzoate coordination complexes with 1,2-bis(4-pyridyl)ethene by controlling metal-to-ligand ratios and solvent systems: Their photoluminescence and catalytic activities. 2012 , 33, 194-202		24
359	Filling the gap: Chemistry of 3,5-bis(trifluoromethyl)-1H-pyrazoles. 2012 , 139, 53-57		20
358	Construction of metal-organic frameworks: versatile behaviour of a ligand containing mono- and bidentate coordination sites. <i>Chemistry - A European Journal</i> , 2012 , 18, 267-76	4.8	12
357	Fluorinated metal-organic frameworks: advantageous for higher H ₂ and CO ₂ adsorption or not?. <i>Chemistry - A European Journal</i> , 2012 , 18, 688-94	4.8	86
356	Enantiopure metal-organic framework thin films: oriented SURMOF growth and enantioselective adsorption. 2012 , 51, 807-10		169
355	Superhydrophobic perfluorinated metal-organic frameworks. 2013 , 49, 6846-8		148
354	A Highly Chemical and Thermal Stable Porous Metal-Organic Framework with Unusual 5-Connected zfy Topology. 2013 , 13, 3271-3274		14
353	New amine-functionalized cobalt cluster-based frameworks with open metal sites and suitable pore sizes: multipoint interactions enhanced CO ₂ sorption. 2013 , 42, 13990-6		24
352	Sorption of benzene vapors to flexible metal-organic framework [Zn ₂ (bdc) ₂ (dabco)]. 2013 , 77, 205-211		6
351	pH-dependent two novel 3D polynuclear cobalt(II) cluster-based metal-organic frameworks constructed from a tri-pyridyl-bis-amide and a polycarboxylate: assembly, structures and properties. 2013 , 3, 13944		23
350	A 3D microporous covalent organic framework with exceedingly high C ₃ H ₈ /CH ₄ and C ₂ hydrocarbon/CH ₄ selectivity. 2013 , 49, 9773-5		133
349	Effect of catenation and basicity of pillared ligands on the water stability of MOFs. 2013 , 42, 15421-6		96
348	Soft Porous Coordination Polymers. 2013 , 73-102		1
347	Synthesis, structure and luminescent properties of metal-organic frameworks constructed from unique Zn- and Cd-containing secondary building blocks. 2013 , 55, 179-183		16
346	Microscopic Origins of Enhanced Gas Adsorption and Selectivity in Mixed-Linker Metal-Organic Frameworks. 2013 , 117, 17131-17142		18
345	Two-step crystal engineering of porous nets from [Cr ₃ (B-O)(RCO ₂) ₆] and [Cu ₃ (B-Cl)(RNH ₂) ₆ Cl ₆] molecular building blocks. 2013 , 49, 8154-6		38

- 344 High-resolution inelastic neutron scattering and neutron powder diffraction study of the adsorption of dihydrogen by the Cu(II) metal-organic framework material HKUST-1. **2013**, 427, 9-17 11
- 343 Design and construction of porous metal-organic frameworks based on flexible BPH pillars. **2013**, 198, 143-148 7
- 342 An interpenetrated 2D coordination polymer: A candidate for gas adsorption of small molecules. **2013**, 402, 60-68 16
- 341 Constructions of two photoluminescent 3D coordination polymers comprising of hydroxide-bridged cadmium chain and polynuclear cadmium macrocycle using phenylsuccinic acid. **2013**, 1051, 72-77 6
- 340 A series of novel metal-organic coordination polymers constructed from the new 5-(4-imidazol-1-yl-phenyl)-2H-tetrazole spacer and aromatic carboxylates: Synthesis, crystal structures, and luminescence properties. **2013**, 206, 286-292 16
- 339 A systematic study of fluorescence-based detection of nitroexplosives and other aromatics in the vapor phase by microporous metal-organic frameworks. *Chemistry - A European Journal*, **2013**, 19, 15964-15978 179
- 338 Synthesis, structure, photoluminescence and theoretical calculation on a novel Zn(II) coordination polymer with (4,8)-connected topology. **2013**, 37, 155-157 8
- 337 Non-covalently bonded 2D metal-organic frameworks from the reactions of Cd(II) and Zn(II) with 3,5-dimethylpyrazole and carboxylate ligands. **2013**, 60, 10-22 9
- 336 Metal-organic frameworks (MOFs) based on mixed linker systems: structural diversities towards functional materials. **2013**, 15, 9276 97
- 335 The oxamate route, a versatile post-functionalization for metal incorporation in MIL-101(Cr): Catalytic applications of Cu, Pd, and Au. **2013**, 307, 295-304 83
- 334 Porous Carbons from Nonporous MOFs: Influence of Ligand Characteristics on Intrinsic Properties of End Carbon. **2013**, 13, 4195-4199 124
- 333 Multi Variant Surface Mounted Metal-Organic Frameworks. **2013**, 23, 3790-3798 65
- 332 The influence of nitro groups on the topology and gas sorption property of extended Zn(II)-paddlewheel MOFs. **2013**, 15, 9304 32
- 331 Metal-organic framework with two different types of rigid tricarboxylates: net topology and gas sorption behaviour. **2013**, 15, 9491 9
- 330 Various crystal structures based on 4,4'-(diethynylanthracene-9,10-diyl) dibenzoic acid: from 0D dimer to 3D net framework. **2013**, 15, 8273 14
- 329 Three-dimensional pillared layered supramolecular networks comprising polymeric layers and tetrameric {H₂O}₄ pillars. **2013**, 15, 7423 10
- 328 Design and construction of coordination polymers with mixed-ligand synthetic strategy. **2013**, 257, 1282-1305 648
- 327 Two New (3,6)-Connected Frameworks Based on an Unsymmetrical Tritopic Pyridyldicarboxylate Ligand and Co₂ Dimer: Structures, Magnetic, and Sorption Properties. **2013**, 13, 701-707 24

326	Kinetic water stability of an isostructural family of zinc-based pillared metal-organic frameworks. 2013 , 29, 633-42		138
325	Mixed linker strategies for organic framework functionalization. <i>Chemistry - A European Journal</i> , 2013 , 19, 818-27	4.8	90
324	A polar tetrazolyl-carboxyl microporous Zn(II)-MOF: sorption and luminescent properties. 2013 , 42, 3653-9		25
323	Dioxole functionalized metal-organic frameworks. 2013 , 42, 4013-8		9
322	Mixed-linker MOFs with CAU-10 structure: synthesis and gas sorption characteristics. 2013 , 42, 4840-7		66
321	Metal-organic framework thin films: crystallite orientation dependent adsorption. 2013 , 52, 3402-5		81
320	MOF stability and gas adsorption as a function of exposure to water, humid air, SO ₂ , and NO ₂ . 2013 , 173, 86-91		81
319	Solvothermal synthesis, crystal structures and properties of two new magnesium coordination polymers of (l)-malic acid. 2013 , 32, 22-27		10
318	[MII(3-(2?-pyridylmethyleneamino)pyridine)(NO ₃) ₂], (M=Co, Zn, Cd) coordination polymers; single, mixed and composite crystals. 2013 , 53, 91-97		4
317	Solvatochromic behavior of chiral mesoporous metal-organic frameworks and their applications for sensing small molecules and separating cationic dyes. <i>Chemistry - A European Journal</i> , 2013 , 19, 3639-45	4.8	189
316	Metal-organic frameworks and self-assembled supramolecular coordination complexes: comparing and contrasting the design, synthesis, and functionality of metal-organic materials. 2013 , 113, 734-77		2304
315	The hydrogen storage capacity of mono-substituted MOF-5 derivatives: An experimental and computational approach. 2013 , 171, 65-71		19
314	Manganese-based layered coordination polymer: synthesis, structural characterization, magnetic property, and electrochemical performance in lithium-ion batteries. 2013 , 52, 2817-22		161
313	Clathrochelate-based bipyridyl ligands of nanoscale dimensions: easy-to-access building blocks for supramolecular chemistry. 2013 , 4, 1658		62
312	Pore design of two-dimensional coordination polymers toward selective adsorption. 2013 , 52, 3634-42		83
311	Structural and fluorescent regulation of Cd(II) coordination polymers with homoterephthalate by N-donor second ligands. 2013 , 15, 2428		44
310	Molecular-level insight into unusual low pressure CO ₂ affinity in pillared metal-organic frameworks. 2013 , 135, 7172-80		82
309	Tunable rare-earth fcu-MOFs: a platform for systematic enhancement of CO ₂ adsorption energetics and uptake. 2013 , 135, 7660-7		406

308	Three-dimensional architectures incorporating stereoregular donor-acceptor stacks. <i>Chemistry - A European Journal</i> , 2013 , 19, 8457-65	4.8	25
307	Gas storage in a partially fluorinated highly stable three-dimensional porous metal-organic framework. 2013 , 52, 7358-66		57
306	Porous Lanthanide Organic Frameworks: Control over Interpenetration, Gas Adsorption, and Catalyst Properties. 2013 , 13, 3154-3161		71
305	Design and preparation of a core-shell metal-organic framework for selective CO ₂ capture. 2013 , 135, 9984-7		220
304	Template and coordination interactions of 4,4'-bipyridine (Bipy) in nickel(II) complexes of 2-propyl-4,5-dicarboxylate-imidazole. 2013 , 1035, 94-100		5
303	CHAPTER 3: Post-synthetic Modification of MOFs. 31-75		9
302	Metal-directed topological diversity of three fluorescent metal-organic frameworks based on a new tetracarboxylate strut. 2013 , 15, 4606		17
301	Cooperative Carbon Capture Capabilities in Multivariate MOFs Decorated with Amino Acid Side Chains: A Computational Study. 2013 , 117, 14717-14722		12
300	Tetracarboxylato-bridged copper(II) complexes with ancillary N-chelating ligands: Syntheses, crystal structures and effect of aromatic compounds on the fluorescence property. 2013 , 49, 252-258		20
299	Construction of coordination polymers based on methylenebis(3,5-dimethylpyrazole) and varied aromatic carboxylic acids. 2013 , 15, 10107		11
298	Syntheses, structures, and properties of multidimensional lithium coordination polymers based on aliphatic carboxylic acids. 2013 , 42, 2765-72		17
297	A linear rod-packing coordination polymer constructed from a non-linear dicarboxylate and the [Zn ₄ O] ₆₊ cluster. 2013 , 66, 3058-3062		5
296	Massive Anisotropic Thermal Expansion and Thermo-Responsive Breathing in Metal-Organic Frameworks Modulated by Linker Functionalization. 2013 , 23, 5990-5996		144
295	Metal-Organic Framework Thin Films: Crystallite Orientation Dependent Adsorption. 2013 , 125, 3486-3489		12
294	Metal-Organic Frameworks: Postsynthetic Modification. 2014 , 1-24		3
293	Metal-Organic Frameworks: Fluorinated Frameworks. 2014 , 1-14		4
292	Three-Dimensional Porous NbO-Type Anionic Framework: Synthesis, Structure, Magnetic and Adsorption Properties. 2014 , 640, 1437-1442		2
291	Assembly of Zn(II) Coordination Polymers Based on Tetrachloroterephthalate and Dipyriddy-type Ligands. 2014 , 69, 299-304		

290	Synthesis, spectral characterization, self-assembly and biological studies of N-acyl-2-pyrazolines bearing long alkoxy side chains. 2014 , 120, 176-84	25
289	Metal-organic calixarene capsules: the evolution of controlled assembly. 2014 , 16, 3655	32
288	A [Cu ₂ (bdc) ₂ (dabco)] coated GC capillary column for the separation of light hydrocarbons and the determination thermodynamic and kinetic data thereof. 2014 , 183, 162-167	17
287	Metal-organic frameworks with mechanically interlocked pillars: controlling ring dynamics in the solid-state via a reversible phase change. 2014 , 136, 7403-9	112
286	Synthesis of a zinc(II) cage-like structure based on 1,4-bis((1H-imidazol-1-yl)methyl)benzene and 5-sulfoisophthalic acid. 2014 , 67, 301-305	4
285	Heteroepitaxial growth of surface mounted metal-organic framework thin films with hybrid adsorption functionality. 2014 , 2, 2018-2022	65
284	Functional Hybrid Porous Coordination Polymers. 2014 , 26, 310-322	323
283	Extension of the Universal Force Field to Metal-Organic Frameworks. 2014 , 10, 880-91	130
282	A porous coordination polymer with a reactive diiron paddlewheel unit. 2014 , 50, 2292-4	18
281	Four MOFs with 2,2'-dimethoxy-4,4'-biphenyldicarboxylic acid: syntheses, structures, topologies and properties. 2014 , 16, 784-796	52
280	Dichotomous adsorption behaviour of dyes on an amino-functionalised metal-organic framework, amino-MIL-101(Al). 2014 , 2, 193-203	295
279	Hydrogen Storage in Metal-Organic Frameworks: A Review. 2014 , 128, 368-392	253
278	Transformation from non- to double-interpenetration in robust Cd(II) doubly-pillared-layered metal-organic frameworks. 2014 , 50, 14543-6	25
277	Construction of Metal-Organic Frameworks Consisting of Dinuclear Metal Units Based on 5-Hydroxyisophthalate and Flexible Dipyridyl Ligands. 2014 , 2014, 2307-2316	8
276	Discriminative detection of nitro aromatic explosives by a luminescent metal-organic framework. 2014 , 2, 10073-10081	152
275	The influence of anion, ligand geometry and stoichiometry on the structure and dimensionality of a series of AgI-bis(cyanobenzyl)piperazine coordination polymers. 2014 , 16, 6459-6468	20
274	Five diverse bivalent metal coordination polymers based on benzene dicarboxylate and bent dipyridyl ligands: syntheses, structures, and photoluminescent properties. 2014 , 16, 8896-8909	35
273	Tuning of net architectures of Ni(II) and Zn(II) coordination polymers using isomeric organic linkers. 2014 , 16, 8874-8884	14

272	Synthesis of cobalt-, nickel-, copper-, and zinc-based, water-stable, pillared metal-organic frameworks. 2014 , 30, 14300-7	58
271	A flexible, porous, cluster-based Zn-pyrazolate-dicarboxylate framework showing selective adsorption properties. 2014 , 38, 2002-2007	6
270	Salt formation affects the conformational and assembly properties of p-carboxylatocalix[4]arenes. 2014 , 16, 3712-3717	10
269	Dramatic effect of pore size reduction on the dynamics of hydrogen adsorbed in metal-organic materials. 2014 , 2, 13884	19
268	Experimental Studies and Mechanism Analysis of High-Sensitivity Luminescent Sensing of Pollutational Small Molecules and Ions in Ln4O4 Cluster Based Microporous Metal-Organic Frameworks. 2014 , 118, 416-426	276
267	Suprachannels via a Molecular Array of 2D Networks: Solvent Effects, Anion Exchange, and Physicochemical Properties of Silver(I) Complexes Bearing N,N',N''-Tris(2-pyridinylethyl)-1,3,5-benzenetricarboxamide. 2014 , 14, 1888-1894	19
266	Targeted manipulation of metal-organic frameworks to direct sorption properties. 2014 , 15, 823-39	41
265	Direct evidence for single-crystal to single-crystal switching of degree of interpenetration in a metal-organic framework. 2014 , 136, 3776-9	105
264	Phase transitions and unusual behavior of heat capacity in metal organic framework compound Zn ₂ (C ₈ H ₄ O ₄) ₂ (N ₂ (CH ₂) ₆). 2014 , 220, 254-258	15
263	Two three-dimensional cadmium(II) coordination polymers based on 5-amino-tetrazolate and 1,2,4,5-benzenetetracarboxylate: the pH value controlled syntheses, crystal structures and luminescent properties. 2014 , 16, 4633-4640	26
262	Syntheses and structural characterization of nine coordination compounds assembled from copper acetate, 3,5-dimethylpyrazole and carboxylates. 2014 , 81, 382-395	14
261	Solution and Mechanochemical Syntheses of Two Novel Cocrystals: Ligand Length Modulated Interpenetration of Hydrogen-Bonded 2D 63-hcb Networks Based on a Robust Trimeric Heterosynthon. 2014 , 14, 1221-1226	26
260	Enhanced adsorptive removal of hazardous anionic dye Congo red by a Ni/Cu mixed-component metal-organic porous material. 2014 , 4, 35124-35130	80
259	Substitution reactions in metal-organic frameworks and metal-organic polyhedra. 2014 , 43, 5952-81	184
258	Bilayer and 3-D open framework: Pillared metal-organic frameworks based on zinc and cadmic (6,3)-layers. 2014 , 48, 65-68	4
257	Synthesis and hydrogen adsorption properties of internally polarized 2,6-azulenedicarboxylate based metal-organic frameworks. 2014 , 2, 18823-18830	22
256	Three-Dimensional Extended Frameworks Constructed from Dinuclear Lanthanide(III) 1,4-Naphthalenedicarboxylate Units with Bis(2,2'-biimidazole) Templates: Syntheses, Structures, and Magnetic and Luminescent Properties. 2014 , 14, 1684-1694	26
255	An interpenetrated pillared-layer MOF: Synthesis, structure, sorption and magnetic properties. 2014 , 210, 251-255	14

254	Influence of temperature on metal-organic frameworks. 2014 , 25, 823-828	75
253	A supermolecular building approach for the design and construction of metal-organic frameworks. 2014 , 43, 6141-72	609
252	A simple hydrated salt with a complex hydrogen-bonding network: tetrakis(5-amino-3-carboxy-4H-1,2,4-triazol-1-ium) hexachloridocadmiate(II) tetrahydrate. 2014 , 70, 672-6	3
251	Trapping of a spatial transient state during the framework transformation of a porous coordination polymer. 2014 , 136, 4938-44	21
250	Cooperative effect of bicyclo[2.2.2]oct-7-ene-2,3,5,6-tetracarboxylate and selective bipyridine ligands on coordination network assembly and metallocycle generation. 2014 , 67, 388-395	6
249	Construction of six non-covalent-bonded supramolecules from reactions of cadmium(II), and zinc(II) with 3,5-dimethylpyrazole and carboxylate ligands. 2014 , 415, 31-43	10
248	Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals \square nanoindentation study. 2014 , 5, 2392	52
247	Positional isomerism of unsymmetrical semirigid ligands toward the construction of discrete and infinite coordination architectures of zinc(II) and cadmium(II) complexes. 2014 , 16, 3128	17
246	New MOF based on lithium tetrahydrofuran-2,3,4,5-tetracarboxylate: Its structure and conductivity behavior. 2014 , 217, 150-158	9
245	Homoleptic ligands vs heteroleptic ligands on coordination polymerizations: Construction and properties of silver(I) coordination polymers containing dialkylbis(4-pyridyl)silanes. 2014 , 1062, 89-95	6
244	Two isorecticular pillared-layer frameworks as stationary phases for gas chromatographic applications \square Unusual peak broadening in size exclusion chromatography, determination of thermodynamic and kinetic data. 2015 , 216, 82-91	4
243	Green Synthesis of a Microporous, Partially Fluorinated ZnII Paddlewheel MetalOrganic Framework: H ₂ /CO ₂ Adsorption Behavior and Solid-State Conversion to a ZnO Nanocomposite. 2015 , 2015, 5669-5676	28
242	Solvent-Dependent Synthesis from Layer to Microporous Pillared-Layer Framework for Selective Sorption of Gas Light Hydrocarbons. 2015 , 641, 2599-2603	1
241	New topological 3D copper(II) coordination networks: catechol oxidation catalysis and solvent adsorption via porous properties. 2015 , 17, 2583-2590	8
240	A pillar-layer MOF for detection of small molecule acetone and metal ions in dilute solution. 2015 , 5, 48881-48884	27
239	Diverse Rotational Flexibility of Substituted Dicarboxylate Ligands in Functional Porous Coordination Polymers. 2015 , 119, 28789-28799	26
238	Syntheses, crystal structures, and properties of four coordination polymers with a new bifunctional ligand. 2015 , 87, 361-368	2
237	Metal cluster-based functional porous coordination polymers. 2015 , 293-294, 263-278	215

- 236 A 3D porous supramolecular architecture via assembly of 2D metal-organic frameworks (MOFs): structure-versus-luminescence reversibility and gas adsorption properties. **2015**, 17, 1264-1272 14
- 235 Responsive Metal-Organic Frameworks and Framework Materials: Under Pressure, Taking the Heat, in the Spotlight, with Friends. **2015**, 27, 1905-1916 370
- 234 Sequential linker installation: precise placement of functional groups in multivariate metal-organic frameworks. **2015**, 137, 3177-80 249
- 233 Insight into the Oriented Growth of Surface-Attached Metal-Organic Frameworks: Surface Functionality, Deposition Temperature, and First Layer Order. **2015**, 137, 8237-43 76
- 232 A non-regular layer arrangement of a pillared-layer coordination polymer: avoiding interpenetration via symmetry breaking at nodes. **2015**, 51, 13611-4 9
- 231 Influence of Angular Dicarboxylate Ligand on the Structures of Single and Double Pillared-Layer Coordination Polymers of Co(II). **2015**, 15, 4156-4161 18
- 230 Enhanced CO₂ capture capacities and efficiencies with N-doped nanoporous carbons synthesized from solvent-modulated, pyridinedicarboxylate-containing Zn-MOFs. **2015**, 17, 8015-8020 9
- 229 A three-dimensional pillared-layer metal-organic framework: Synthesis, structure and gas adsorption studies. **2015**, 430, 193-198 20
- 228 Electrochemical synthesis of pillared layer mixed ligand metal-organic framework: DMOF-1Zn. **2015**, 5, 36547-36551 32
- 227 A Non-interpenetrated Microporous Bi-pillared-Layer Framework: Synthesis, Structure and Photoluminescence Properties. **2015**, 25, 936-941 0
- 226 Systematic ligand modulation enhances the moisture stability and gas sorption characteristics of quaternary metal-organic frameworks. **2015**, 137, 3901-9 118
- 225 Tunable Rare Earth fcu-MOF Platform: Access to Adsorption Kinetics Driven Gas/Vapor Separations via Pore Size Contraction. **2015**, 137, 5034-40 261
- 224 Combined experimental and theoretical investigation of characterization and hydrogen storage properties of Zn(II) based complex and composites. **2015**, 40, 5907-5915 11
- 223 Heterogeneous heck coupling in multivariate metal-organic frameworks for enhanced selectivity. **2015**, 65, 105-107 19
- 222 Selective carbon dioxide adsorption by mixed-ligand porous coordination polymers. **2015**, 17, 8388-8413 44
- 221 Directional Energy Transfer in Mixed-Metallic Copper(I)-Silver(I) Coordination Polymers with Strong Luminescence. **2015**, 54, 9733-9 27
- 220 Modulating adsorption and stability properties in pillared metal-organic frameworks: a model system for understanding ligand effects. **2015**, 48, 2850-7 72
- 219 Self-template synthesis of hierarchical magnetic porous carbon fibers derived from Fe(BTC)-coated bamboo fibers for fast removal of methylene blue. **2015**, 5, 87616-87625 8

218	Molecular-Level Studies on Dynamic Behavior of Oligomeric Chain Molecules in Porous Coordination Polymers. 2015 , 119, 21504-21514	25
217	Solid-state thermal conversion of a nanoporous metal-organic framework to a nonporous coordination polymer. 2015 , 5, 50778-50782	23
216	A copper-based layered coordination polymer: synthesis, magnetic properties and electrochemical performance in supercapacitors. 2015 , 44, 19175-84	62
215	Tuning the porosity through interpenetration of azobenzene-4,4'-dicarboxylate-based metal-organic frameworks. 2015 , 17, 7636-7645	14
214	Bivalent metal-based MIL-53 analogues: Synthesis, properties and application. 2015 , 223, 84-94	8
213	Synthesis of chiral porous coordination polymer that shows structural transformation induced by guest molecules. 2015 , 424, 221-225	3
212	Synthesis, Structure, Photoluminescence Property of a Barium Complex With Sulfosalicylic Acid Ligand. 2015 , 45, 122-126	2
211	Structural stability of metal organic frameworks in aqueous media [Controlling factors and methods to improve hydrostability and hydrothermal cyclic stability. 2015 , 201, 61-90	113
210	Water interactions in metal organic frameworks. 2015 , 17, 247-260	120
209	Transforming MOFs for Energy Applications Using the Guest@MOF Concept. 2016 , 55, 7233-49	52
208	SALE-Ing a MOF-Based Ship of Theseus. Sequential Building-Block Replacement for Complete Reformulation of a Pillared-Paddlewheel Metal-Organic Framework. 2016 , 2016, 4345-4348	16
207	Carboxylate-Hydrazone Mixed-Linker Metal-Organic Frameworks: Synthesis, Structure, and Selective Gas Adsorption. 2016 , 2016, 4450-4456	22
206	Adsorption Properties of MFM-400 and MFM-401 with CO ₂ and Hydrocarbons: Selectivity Derived from Directed Supramolecular Interactions. 2016 , 55, 7219-28	36
205	A Metal Coordination Polymer Based on Octanuclear Nickel Cluster Building Blocks: Synthesis, Structure and Magnetic Property. 2016 , 27, 1273-1281	
204	Nickel-based pillared MOFs for high-performance supercapacitors: Design, synthesis and stability study. 2016 , 26, 66-73	238
203	Thermodynamically Guided Synthesis of Mixed-Linker Zr-MOFs with Enhanced Tunability. 2016 , 138, 6636-42	174
202	Removal of Pharmaceuticals from Water via π -Stacking Interactions in Perfluorinated Metal-Organic Frameworks. 2016 , 16, 3530-3534	38
201	Functionalization and Isoreticulation in a Series of Metal-Organic Frameworks Derived from Pyridinecarboxylates. 2016 , 55, 7200-5	19

- 200 The construction, structures, and functions of pillared layer metal-organic frameworks. **2016**, 3, 1208-1226 68
- 199 Cleavage of a C-C bond between two phenyl groups under mild conditions during the construction of Zn(II) organic frameworks. **2016**, 18, 5418-5422 8
- 198 Metal-Organic Frameworks and Related Materials: Miles to Go. **2016**, 33-109 1
- 197 Design of Highly Connected Cd-Tetrazolate-Dicarboxylate Frameworks with Enhanced CO₂/CH₄ and C₂ Hydrocarbons/CH₄ Separation Performance. **2016**, 16, 6430-6435 14
- 196 Two New (3,6)-Connected MOFs with *hca* Topology and High CH₄ Uptake. **2016**, 16, 6156-6159 7
- 195 Magnetic properties in metal-organic framework compounds [M₂(C₈H₄O₄)₂ · C₆H₁₂N₂] (M = Cu, Ni, Co). **2016**, 253, 2252-2256 7
- 194 Porous coordination polymers based on carboxylate complexes of 3d metals. **2016**, 42, 557-573 19
- 193 Dinuclear and tetranuclear complexes of copper coordinated by an anthracene-based new Ebi(tridentate) ligand: Synthesis, structure, spectroscopy and magnetic properties. **2016**, 117, 542-551 8
- 192 A Facile Synthesis of Co₃O₄ Hollow Microtubes by Decomposition of a Cobalt Metal-Organic Framework. **2016**, 2016, 4463-4469 4
- 191 New polynuclear compounds based on N-benzyliminodipropionic acid: solution studies, synthesis, and X-ray crystal structures. **2016**, 69, 3650-3663 4
- 190 Six Flexible and Rigid Co(II) Coordination Networks with Dicarboxylate and Nicotinamide-Like Ligands: Impact of Noncovalent Interactions in Retention of Dimethylformamide Solvent. **2016**, 16, 7011-7024 14
- 189 Halogenated MOF-5 variants show new configuration, tunable band gaps and enhanced optical response in the visible and near infrared. **2016**, 18, 32319-32330 27
- 188 Pseudohalide-directed Assembly of Two Zinc(II) Coordination Polymers with a 3,4-Bis(3-pyridyl)-5-(4-pyridyl)-1,2,4-triazole Tecton. **2016**, 642, 1445-1449 1
- 187 Synthesis of mixed ligand and pillared paddlewheel MOFs using waste polyethylene terephthalate material as sustainable ligand source. **2016**, 231, 186-191 10
- 186 Solvent and pH Driven Self-Assembly of Isomeric or Isomorphous Complexes: Crystal Structure and Luminescent Change upon Desolvation. **2016**, 16, 4012-4020 21
- 185 Bis(carboxyphenyl)-1,2,4-triazole Based Metal-Organic Frameworks: Impact of Metal Ion Substitution on Adsorption Performance. **2016**, 55, 6938-48 12
- 184 Giant flexibility of crystallized organic-inorganic porous solids: facts, reasons, effects and applications. **2016**, 40, 3950-3967 11
- 183 Compositional control of pore geometry in multivariate metal-organic frameworks: an experimental and computational study. **2016**, 45, 4316-26 14

182	A porous framework based on tetrakis(4-pyridyloxymethyl)methane fine-tuned by metal ions: synthesis, crystal structures and adsorption properties. 2016 , 40, 1430-1435	1
181	Zr-based metal-organic frameworks: design, synthesis, structure, and applications. 2016 , 45, 2327-67	1411
180	Two pillared metal-organic frameworks comprising a long pillar ligand used as fluorescent sensors for nitrobenzene and heterogeneous catalysts for the Knoevenagel condensation reaction. 2016 , 18, 2463-2468	38
179	Synthesis, structure and properties of an octahedral dinuclear-based Cu ₁₂ nanocage of trimesoyltri(L-alanine). 2016 , 6, 9911-9915	12
178	Paddle Wheel Based Triazolyl Isophthalate MOFs: Impact of Linker Modification on Crystal Structure and Gas Sorption Properties. 2016 , 55, 3030-9	24
177	Experimental and simulation study on structural characterization and hydrogen storage of metal organic structured compounds. 2016 , 41, 8256-8263	10
176	Controlling interpenetration for tuning porosity and luminescence properties of flexible MOFs based on biphenyl-4,4'-dicarboxylic acid. 2016 , 18, 1282-1294	25
175	Structural flexibility in crystallized matter: from history to applications. 2016 , 45, 4073-89	44
174	Formation of oriented and patterned films of metal-organic frameworks by liquid phase epitaxy: A review. 2016 , 307, 391-424	158
173	Magnetic responsive metal-organic frameworks nanosphere with core-shell structure for highly efficient removal of methylene blue. 2016 , 283, 1127-1136	139
172	Metal-organic frameworks utilising an interlocked, hexadentate linker containing a tetra-carboxylate axle and a bis(pyridine) wheel. 2017 , 46, 2462-2470	15
171	Effect of H-bonding interactions of water molecules in the self assembly of supramolecular architecture-joint experimental and computational studies. 2017 , 1142, 148-155	7
170	Ca- and Sr-tetrafluoroisophthalates: mechanochemical synthesis, characterization, and ab initio structure determination. 2017 , 46, 6003-6012	14
169	Cage amines in the metal-organic frameworks chemistry. 2017 , 89, 1049-1064	10
168	Modification of Network and Pore Dimensionality in Metal-Organic Frameworks Containing a Secondary Phosphine Functionality. 2017 , 17, 3257-3266	14
167	Facile synthesis of magnetic hybrid metal-organic frameworks with high adsorption capacity for methylene blue. 2017 , 31, e3798	21
166	Modern Trends and Innovation. 2017 , 69-77	
165	Activation-Dependent Breathing in a Flexible Metal-Organic Framework and the Effects of Repeated Sorption/Desorption Cycling. 2017 , 56, 8874-8878	41

164	Synthesis, characterization, and hydrogen storage capacities of polymeric squaric acid complexes containing 1-vinylimidazole. 2017 , 133, 16-23	13
163	Insight into solvent nature on coordination polymerization: Crystal structures of cadmium(II) chloride containing diallylbis(pyridin-4-yl)silane. 2017 , 1144, 415-420	2
162	Activation-Dependent Breathing in a Flexible Metal-Organic Framework and the Effects of Repeated Sorption/Desorption Cycling. 2017 , 129, 9000-9004	6
161	A robust anionic pillared-layer framework with triphenylamine-based linkers: ion exchange and counterion-dependent sorption properties. 2017 , 19, 2723-2732	18
160	Recent advances and challenges of metal-organic framework membranes for gas separation. 2017 , 5, 10073-10091	250
159	Mixed-linker UiO-66: structure-property relationships revealed by a combination of high-resolution powder X-ray diffraction and density functional theory calculations. 2017 , 19, 1551-1559	35
158	Epitaxial Growth of Hetero-Ln-MOF Hierarchical Single Crystals for Domain- and Orientation-Controlled Multicolor Luminescence 3D Coding Capability. 2017 , 56, 14582-14586	168
157	Epitaxial Growth of Hetero-Ln-MOF Hierarchical Single Crystals for Domain- and Orientation-Controlled Multicolor Luminescence 3D Coding Capability. 2017 , 129, 14774-14778	33
156	Versatile Tailoring of NH ₂ -Containing Metal-Organic Frameworks with Paddle-Wheel Units. <i>Chemistry - A European Journal</i> , 2017 , 23, 17727-17733	4.8 8
155	The impact of N,N'-ditopic ligand length and geometry on the structures of zinc-based mixed-linker metal-organic frameworks. 2017 , 19, 5549-5557	12
154	Porosity Distribution Control in Carbon by Tuning the Carbonization Rate in Porous Coordination Polymers. 2017 , 46, 1650-1653	1
153	Nickel(II) metal-organic frameworks with N,N'-di(4-pyridyl)-naphthalenediimide ligands: influence of secondary building unit geometry on dimensionality and framework dimensions. 2017 , 19, 5558-5564	11
152	Construction of Highly Porous Pillared Metal-Organic Frameworks: Rational Synthesis, Structure, and Gas Sorption Properties. 2017 , 56, 9147-9155	18
151	Aqueous microwave-assisted synthesis of non-interpenetrated metal-organic framework for room temperature cycloaddition of CO ₂ and epoxides. 2017 , 544, 126-136	28
150	Topology-guided functional multiplicity of iron(III)-based metal-organic frameworks. 2017 , 1, 1965-1974	11
149	Neutral Luminescent Metal-Organic Frameworks: Structural Diversification, Photophysical Properties, and Sensing Applications. 2017 , 56, 14556-14566	55
148	Cu(II) frameworks from a mixed-ligand approach. 2017 , 19, 4355-4367	7
147	Phase transitions in a metal-organic coordination polymer: [Zn ₂ (C ₈ H ₄ O ₄) ₂ (C ₆ H ₁₂ N ₂)] with guest molecules. Thermal effects and molecular mobility. 2017 , 90, 628-636	5

146	Functional conductive nanomaterials polymerisation in nano-channels: PEDOT in a MOF. 2017 , 4, 64-71	48
145	Rapid room temperature synthesis forming pillared metal-organic frameworks with Kagomesh topology. 2017 , 239, 28-33	17
144	Controllable self-catalytic fabrication of carbon nanomaterials mediated by a nickel metal organic framework. 2017 , 4, 46-51	15
143	Structural flexibility of DABCO. Ab initio and DFT benchmark study. 2017 , 667, 87-90	10
142	Dynamic Behavior of Porous Coordination Polymers. 2017 , 425-474	1
141	Synthesis of Coordination Compounds and Coordination Polymers. 2017 , 189-217	7
140	Network Solids: Mixed Ligand Molecular Building Blocks. 2017 , 243-270	
139	Enhancement of CO Uptake and Selectivity in a Metal-Organic Framework by the Incorporation of Thiophene Functionality. 2018 , 57, 5074-5082	26
138	Room-Temperature Synthesis of Two-Dimensional Metal-Organic Frameworks with Controllable Size and Functionality for Enhanced CO ₂ Sorption. 2018 , 18, 3209-3214	29
137	Toward Ultimate Control of Radical Polymerization: Functionalized Metal-Organic Frameworks as a Robust Environment for Metal-Catalyzed Polymerizations. 2018 , 30, 2983-2994	34
136	Pillar-Assisted Construction of a Three-Dimensional Framework from a Two-Dimensional Bilayer Based on a Zn/Cd Heterometal Cluster: Pore Tuning and Gas Adsorption. 2018 , 18, 1826-1833	6
135	Metal-organic frameworks based on octafluorobiphenyl-4,4'-dicarboxylate: synthesis, crystal structure, and surface functionality. 2018 , 47, 3283-3297	22
134	"One-for-All" Strategy in Fast Energy Storage: Production of Pillared MOF Nanorod-Templated Positive/Negative Electrodes for the Application of High-Performance Hybrid Supercapacitor. 2018 , 14, e1800285	57
133	Potential of metal-organic frameworks for adsorptive separation of industrially and environmentally relevant liquid mixtures. 2018 , 367, 82-126	73
132	Solid-State ² H NMR Studies of Molecular Motion in Functional Materials. 2018 , 341-364	
131	Crystal structure of diaqua-bis(3,3-dimethylacrylate- η^1 , η^1)zinc(II), C ₁₀ H ₁₈ ZnO ₆ . 2018 , 234, 139-140	1
130	Three Component Controls in Pillared Metal-Organic Frameworks for Catalytic Carbon Dioxide Fixation. 2018 , 8, 565	3
129	Solvent mediated morphology control of zinc MOFs as carbon templates for application in supercapacitors. 2018 , 6, 23521-23530	39

128	DMOF-1 as a Representative MOF for SO ₂ Adsorption in Both Humid and Dry Conditions. 2018 , 122, 23493-23500	35
127	Pillar-layered MOFs: functionality, interpenetration, flexibility and applications. 2018 , 6, 19288-19329	107
126	Selective sorting of polymers with different terminal groups using metal-organic frameworks. 2018 , 9, 3635	26
125	CO ₂ adsorption performance of functionalized metal-organic frameworks of varying topologies by molecular simulations. 2018 , 189, 65-74	16
124	Porous 10- and 12-vertex (bi)-p-dicarba-closo-boranededicarboxylates of cobalt and their gas adsorptive properties. 2018 , 271, 284-294	5
123	Zigzag Ligands for Transversal Design in Reticular Chemistry: Unveiling New Structural Opportunities for Metal-Organic Frameworks. 2018 , 140, 10153-10157	48
122	Ferric metal-organic framework for microwave absorption. 2018 , 9, 140-148	48
121	Modulation of pore shape and adsorption selectivity by ligand functionalization in a series of Boblike flexible metalorganic frameworks. 2018 , 6, 17409-17416	10
120	DABCO molecule in the M ₂ (C ₈ H ₄ O ₄) ₂ [C ₆ H ₁₂ N ₂] (M = Co, Ni, Cu, Zn) metal-organic frameworks. 2018 , 376, 62-74	10
119	MetalOrganic Framework-Inspired Metal-Containing Clusters for High-Resolution Patterning. 2018 , 30, 4124-4133	29
118	Post-Synthetic Mannich Chemistry on Metal-Organic Frameworks: System-Specific Reactivity and Functionality-Triggered Dissolution. <i>Chemistry - A European Journal</i> , 2018 , 24, 11094-11102	4.8 10
117	IR and Raman spectroscopic analysis, DFT modeling, and magnetic properties of a nickel(II) complex, [Ni(succ)(H ₂ O) ₄] _n . 2019 , 72, 2215-2232	3
116	Substituents Effects of Organic Linkers on Rotational Energy Barriers in Metal-Organic Frameworks. 2019 , 4, 8584-8592	10
115	Tuning Thermal Expansion in Metal-Organic Frameworks Using a Mixed Linker Solid Solution Approach. 2019 , 141, 12849-12854	22
114	Recent progress of nanomaterials for microwave absorption. 2019 , 5, 503-541	160
113	Synthesis of mixed-linker Zr-MOFs for emerging contaminant adsorption and photodegradation under visible light. 2019 , 378, 122118	50
112	Liquid-Phase Epitaxial Growth of Highly Oriented and Multivariate Surface-Attached Metal-Organic Frameworks. 2019 , 141, 18984-18993	25
111	Crystal size versus paddle wheel deformability: selective gated adsorption transitions of the switchable metalorganic frameworks DUT-8(Co) and DUT-8(Ni). 2019 , 7, 21459-21475	34

110	Thiazolothiazole-Based Luminescent Metal-Organic Frameworks with Ligand-to-Ligand Energy Transfer and Hg-Sensing Capabilities. 2019 , 58, 12707-12715	42
109	Facile Orientational Control of MLP SURMOFs on <100> Silicon Substrates and Growth Mechanism Insights for Defective MOFs. 2019 , 11, 38294-38302	11
108	Highly Selective Separations of C ₂ H ₂ /C ₂ H ₄ and C ₂ H ₂ /C ₂ H ₆ in Metal-Organic Frameworks via Pore Environment Design. 2019 , 58, 19946-19957	13
107	Synthesis, X-ray structure, and DFT modeling of a new polymeric zinc(II) complex of 2-mercaptopyruvic acid (MntH), {[Zn(MntMnt)(en)]·H ₂ O} _n . 2019 , 150, 219-231	1
106	Control of Emissive Excited States of Silver(I) Halogenido Coordination Polymers by a Solid Solution Approach. 2019 , 58, 8419-8431	10
105	Room-Temperature Synthesis of Metal-Organic Framework Isomers in the Tetragonal and Kagome Crystal Structure. 2019 , 58, 7690-7697	11
104	rtl-M-MOFs (M = Cu, Zn) with a T-shaped bifunctional pyrazole-isophthalate ligand showing flexibility and S-shaped Type F-IV sorption isotherms with high saturation uptakes for M = Cu. 2019 , 48, 8057-8067	10
103	Solid-Solution Mixed-Linker Synthesis of Isorecticular Al-Based MOFs for an Easy Hydrophilicity Tuning in Water-Sorption Heat Transformations. 2019 , 31, 4051-4062	23
102	Introduction to O-Donor Pillars. 2019 , 177-253	
101	Stability and Interpenetration in Pillar-Layer MOFs. 2019 , 255-273	
100	p-Xylylenediamine derived ligands as flexible connectors in the design of porous coordination polymers. 2019 , 21, 3074-3085	1
99	MOF-derived NiO/Ni architecture encapsulated into N-doped carbon nanotubes for advanced asymmetric supercapacitors. 2019 , 6, 1553-1560	23
98	Storage of Hydrogen on Nanoporous Adsorbents. 2019 , 255-286	0
97	Detection of adsorbates on emissive MOF surfaces with X-ray photoelectron spectroscopy. 2019 , 48, 4520-4529	7
96	Zinc(II) Complexes with Tetrafluoroterephthalic and Octafluorobiphenyl-4,4'-dicarboxylic Acid Anions and 1,10-Phenanthroline. 2019 , 89, 261-265	4
95	A Zn(II) metal-organic framework with dinuclear [Zn(N-oxide)] secondary building units. 2019 , 48, 6314-6318	2
94	Metal-Organic Coordination Polymers Based on the Anions of Perfluorinated Dicarboxylic Acids. 2019 , 60, 1965-1970	3
93	Crystal structure of diaqua-bis(cinnamato-κO,O')zinc(II), C ₁₈ H ₁₈ ZnO ₆ . 2019 , 234, 975-976	

92	Crystal structure of catena-poly[di aqua-bis(2-4-((4-(pyridin-2-ylmethoxy)phenyl)diazenyl)benzoato- β O,O π :N)cadmium(III)], Cd(C ₁₉ H ₁₄ O ₃ N ₃) ₂ (H ₂ O). 2019 , 234, 741-742		1
91	Loading Control of Metal-Organic Frameworks in Fe ₃ O ₄ @MOFs Series Composite Adsorbents for Optimizing Dye Adsorption. 2019 , 58, 22244-22249		18
90	. 2019 ,		2
89	Rotational dynamics of the organic bridging linkers in metal-organic frameworks and their substituent effects on the rotational energy barrier.. 2019 , 9, 38137-38147		15
88	Energy storage materials from clay minerals and zeolite-like structures. 2019 , 275-288		
87	Improving isosteric heat of CO ₂ adsorption by introducing nitro moieties into jungle-gym-type porous coordination polymers. 2019 , 270, 11-18		3
86	Modulating and Orienting an Anisotropic Zn-Based Metal Organic Framework for Selective CH ₄ /CO ₂ Gas Separation. 2019 , 9, 20		14
85	Probing Local Structural Changes at Cu ²⁺ in a Flexible Mixed-Metal Metal-Organic Framework by in Situ Electron Paramagnetic Resonance during CO ₂ Ad- and Desorption. 2019 , 123, 2940-2952		12
84	Nonconjugated Hydrocarbons as Rigid-Linear Motifs: Isosteres for Material Sciences and Bioorganic and Medicinal Chemistry. <i>Chemistry - A European Journal</i> , 2019 , 25, 4590-4647	4.8	95
83	Highly responsive nature of porous coordination polymer surfaces imaged by in situ atomic force microscopy. 2019 , 11, 109-116		49
82	Solid-state transformation in porous metal-organic frameworks based on polymorphic-pillared net structure: Generation of tubular shaped MOFs. 2019 , 278, 99-104		3
81	Amide-functionalized metal-organic frameworks: Syntheses, structures and improved gas storage and separation properties. 2019 , 378, 2-16		163
80	Microporous Metal-Organic Framework Materials for Gas Separation. 2020 , 6, 337-363		234
79	In situ visualization of loading-dependent water effects in a stable metal-organic framework. 2020 , 12, 186-192		30
78	A new Cd-coordination polymer based on 1,3-di(4-pyridyl)propane: synthesis, crystal structure, thermogravimetric analysis, and photoluminescent properties. 2020 , 73, 2265-2274		1
77	Doubly Interpenetrated Metal-Organic Framework of pcu Topology for Selective Separation of Propylene from Propane. 2020 , 12, 48712-48717		8
76	Introducing a Cantellation Strategy for the Design of Mesoporous Zeolite-like Metal-Organic Frameworks: Zr-sod-ZMOFs as a Case Study. 2020 , 142, 20547-20553		12
75	Pillar-Layered Metal-Organic Frameworks Based on a Hexaprismane [Co ₆ (β -OH) ₆] Cluster: Structural Modulation and Catalytic Performance in Aerobic Oxidation Reaction. 2020 , 59, 11728-11735		7

74	A comparative study of perfluorinated and non-fluorinated UiO-67 in gas adsorption. 2020 , 27, 1773-1782	4
73	Nanomaterials in the advancement of hydrogen energy storage. 2020 , 6, e04487	20
72	Lanthanide Contraction in Action: Structural Variations in 13 Lanthanide(III) Thiophene-2,5-dicarboxylate Coordination Polymers (Ln = La-Lu, Except Pm and Tm) Featuring Magnetocaloric Effect, Slow Magnetic Relaxation, and Luminescence-Lifetime-based Thermometry. 2020 , 20, 6430-6452	16
71	Recent Progress in 2D Metal-Organic Frameworks for Optical Applications. 2020 , 8, 2000110	38
70	Effect of Larger Pore Size on the Sorption Properties of Isoreticular Metal-Organic Frameworks with High Number of Open Metal Sites. <i>Chemistry - A European Journal</i> , 2020 , 26, 13523-13531	4.8 4
69	Tailoring the Adsorption-Induced Flexibility of a Pillared Layer Metal-Organic Framework DUT-8(Ni) by Cobalt Substitution. 2020 , 32, 5670-5681	14
68	Flexible bifunctional monoethylphosphonate/carboxylates of Zn(II) and Co(II) reinforced with DABCO co-ligand: paradigmatic structural organization with pcu topology. 2020 , 22, 2933-2944	0
67	Enhanced Rotation by Ground State Destabilization in Amphidynamic Crystals of a Dipolar 2,3-Difluorophenylene Rotator as Established by Solid State 2H NMR and Dielectric Spectroscopy. 2020 , 124, 15391-15398	6
66	Recognition of Polymer Terminus by Metal-Organic Frameworks Enabling Chromatographic Separation of Polymers. 2020 , 142, 3701-3705	28
65	Hydrogen-Bonding Linkers Yield a Large-Pore, Non-Catenated, Metal-Organic Framework with pcu Topology. 2020 , 25,	3
64	Metal-organic frameworks chelated by zinc fluorides for ultra-high affinity to acetylene during C2/C1 separations. 2020 , 266, 117037	8
63	Hydrophobic Metal-Organic Frameworks: Assessment, Construction, and Diverse Applications. 2020 , 7, 1901758	70
62	Zinc-oxalate coordination polymer: synthesis, thermogravimetric analysis and luminescence properties. 2020 , 2, 1	2
61	Metal organic frameworks composite Eu2O3@[Zn2(1,4-ndc)2dabco] synthesized by pulsed laser ablation in flowing liquid and its fluorescent sensing of fatty alcohol with different branch chains. 2020 , 105, 109886	2
60	Highly efficient separations of C2H2 from C2H2/CO and C2H2/H2 in metal-organic frameworks with ZnF2 chelation: A molecular simulation study. 2020 , 271, 117598	3
59	Solid-state phase transformations toward a metal-organic framework of 7-connected Zn4O secondary building units. 2021 , 14, 411-416	0
58	Hierarchical assemblies of molecular frameworks MOF-on-MOF epitaxial heterostructures. 2021 , 14, 355-368	31
57	Variability in the Formation and Framework Polymorphism of Metal-organic Frameworks based on Yttrium(III) and the Bifunctional Organic Linker 2,5-Dihydroxyterephthalic Acid. 2021 , 647, 15-25	1

56	A comprehensive review on synthetic approaches for metal-organic frameworks: From traditional solvothermal to greener protocols. 2021 , 193, 114897	17
55	Design of Porous Coordination Materials with Dynamic Properties. 2021 , 94, 60-69	11
54	Crystal growth of the core and rotated epitaxial shell of a heterometallic metal-organic framework revealed with atomic force microscopy. 2021 , 231, 112-126	2
53	Large breathing effect induced by water sorption in a remarkably stable nonporous cyanide-bridged coordination polymer. 2021 , 12, 9176-9188	3
52	Porous Coordination Polymers/Metal-Organic Frameworks. 2021 , 314-327	
51	Spiers Memorial Lecture: Coordination networks that switch between nonporous and porous structures: an emerging class of soft porous crystals. 2021 , 231, 9-50	2
50	Alkyl decorated metal-organic frameworks for selective trapping of ethane from ethylene above ambient pressures. 2021 , 50, 10423-10435	6
49	Synopsis of Factors Affecting Hydrogen Storage in Biomass-Derived Activated Carbons. 2021 , 13, 1947	4
48	A reticular chemistry guide for the design of periodic solids. 2021 , 6, 466-487	36
47	Metal-Organic Frameworks for Practical Separation of Cyclic and Linear Polymers. 2021 , 60, 11830-11834	8
46	Metal-Organic Frameworks for Practical Separation of Cyclic and Linear Polymers. 2021 , 133, 11936-11940	
45	Nitrogen-doped porous carbon-encapsulated copper composite for efficient reduction of 4-nitrophenol. 2021 , 594, 254-264	14
44	Synthesis, characterization and CO ₂ adsorption studies of DABCO based pillared Zn-BDC and Co-BDC metal organic frameworks. 2021 , 8, 075506	1
43	Avoiding the Center-Symmetry Trap: Programmed Assembly of Dipolar Precursors into Porous, Crystalline Molecular Thin Films. 2021 , 33, e2103287	1
42	The MIL-125 Metal-Organic Framework Structure for Adsorption-Based Accumulation of Methane and Hydrogen. 2021 , 57, 672-679	0
41	Cascade Dynamics of Multiple Molecular Rotors in a MOF: Benchmark Mobility at a Few Kelvins and Dynamics Control by CO. 2021 , 143, 13082-13090	3
40	A new generation of solid-phase microextraction based on breathing of metal organic framework nanorods MOF-508 for the determination of diazinon and chlorpyrifos in wheat samples. 2021 , 171, 106876	3
39	Pore functionalization, single-crystal transformation and selective CO ₂ adsorption in chemical stable pillared-layer Co(II) based metal-organic framework. 2021 , 131, 108758	0

38	Research Progress of Metal Organic Frameworks/Carbon-Based Composites for Microwave Absorption. 2100964	2
37	Revisiting molecular adsorption: unconventional uptake of polymer chains from solution into sub-nanoporous media. 2021 , 12, 12576-12586	5
36	Exotic Carbon Phases: Structure and Properties. 2010 , 207-240	1
35	Porous Coordination Polymers Towards Gas Technology. 2009 , 51-86	15
34	Tetra- β -benzoato-bis-[(6-methyl-quinoline)-copper(II)]. 2008 , 64, m881-2	11
33	Isomerism in double-pillared-layer coordination polymers - structures and photoreactivity. 2018 , 5, 182-189	13
32	A Selenophene-Incorporated Metal-Organic Framework for Enhanced CO Uptake and Adsorption Selectivity. 2020 , 25,	7
31	. 2006 , 27, 137-139	1
30	Solvothermal Synthesis, Crystal Structure, and Magnetic Properties of [Co ₃ (SDA) ₃ (DMF) ₂]; 2-D Layered Metal-organic Framework Derived from 4,4'-Stilbenedicarboxylic Acid (H ₂ SDA). 2006 , 27, 443-446	20
29	Factors in the Synthesis of 3-D Metal-Organic Framework, [Zn(HCOO) ₃](C ₂ H ₈ N), Derived from Decomposition of Solvent. 2009 , 53, 73-78	5
28	Theoretical Investigation for the Molecular Structures and Dimerization Energies for Complexes of H ₂ O-C ₆ H ₆ Dimer. 2009 , 53, 7-16	
27	Solid Solutions Mixed Crystals and Eutectics. 2017 , 109-125	
26	Cryogenic gas chromatographic separation of hydrogen isotopes using pillared-layer MOFs composites as stationary phase. 2021 , 47, 339-339	4
25	Hierarchical metal-organic framework (MOF) pore engineering. 2022 , 330, 111633	2
24	Structural properties of [Cu(II)L] cages: bridged polyatomic anion effects on unprecedented efficiency of heterogeneous catechol oxidation.. 2022 ,	1
23	Tuning the Pore Environment of MOFs toward Efficient CH ₄ /N ₂ Separation under Humid Conditions.. 2022 ,	2
22	Mixed Metal-Organic Framework Stationary Phases for Liquid Chromatography.. 2022 ,	1
21	A simple, robust, and efficient structural model to predict thermal stability of zinc metal-organic frameworks (Zn-MOFs): The QSPR approach. 2022 , 336, 111815	4

20	Recent advances of functional heterometallic-organic framework (HMOF) materials: Design strategies and applications. 2022 , 463, 214521	5
19	MOFs for hydrogen storage. 2022 , 589-607	1
18	Layer-by-layer growth of ferrocene decorated metal-organic framework thin films and studies of their electrochemical properties. 2022 , 153525	
17	Multi-dimensional metal-organic frameworks based on mixed linkers: Interplay between structural flexibility and functionality. 2022 , 469, 214645	5
16	MOF Pillaring Method: Ligand-to-Ligand and Axial-to-Axial Cross-Linking of Paddlewheels	
15	Infusion of variable chemical structure to tune stacking among metal-organic layers in 2D Nano MOF.	
14	A systematic review on recent advances of metal-organic frameworks-based nanomaterials for electrochemical energy storage and conversion. 2022 , 471, 214741	0
13	Controlling dynamics in extended molecular frameworks.	0
12	Competing phases in the room-temperature M ₂ (2,6-ndc) ₂ (dabco) metal-organic framework thin film synthesis. 2022 , 3, 6869-6877	0
11	Dual-Ligand Strategy Employing Rigid 2,5-Thiophenedicarboxylate and 1,10-Phenanthroline as Coligands for Solvothermal Synthesis of Eight Lanthanide(III) Coordination Polymers: Structural Diversity, DFT Study, and Exploration of the Luminescent Tb(III) Coordination Polymer as an Efficient Chemical Sensor for Nitroaromatic Compounds.	1
10	Synthesis and Biomedical Applications of Highly Porous Metal-Organic Frameworks. 2022 , 27, 6585	0
9	Ligand Configuration-Directed Pillared Kagome-Layer MOFs: Synthesis, Structure, and Adsorption of Propane/Propylene Properties.	0
8	Efficient C ₂ H ₂ Separation from CO ₂ and CH ₄ within a Microporous Metal-Organic Framework of Multiple Functionalities.	1
7	Decoration and utilization of a special class of metal-organic frameworks containing the fluorine moiety. 2023 , 476, 214876	1
6	Enhanced Adsorption Selectivity of Carbon Dioxide and Ethane on Porous Metal-Organic Framework Functionalized by a Sulfur-Rich Heterocycle. 2022 , 12, 4281	1
5	Topological entrapment of macromolecules during the formation of metal-organic framework.	0
4	Metal-Organic Framework Supported Copper Photoredox Catalysts for Iminyl Radical-Mediated Reactions.	0
3	Metal-Organic Framework Supported Copper Photoredox Catalysts for Iminyl Radical-Mediated Reactions.	0

- 2 Impact of Ligands on the Properties of Lanthanide Metal-Organic Frameworks. **2023**, 649, ○
- 1 Manganese-Based Metal-Organic Frameworks Photocatalysts for Visible Light-Driven Oxidative Coupling of Benzylamine under Atmospheric Oxygen: A Comparative Study. **2023**, 13, 613 ○