CITATION REPORT List of articles citing

Hybrid porous solids: past, present, future

DOI: 10.1039/b618320b Chemical Society Reviews, 2008, 37, 191-214.

Source: https://exaly.com/paper-pdf/43590468/citation-report.pdf

Version: 2024-04-10

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
2339	Adsorption hysteresis in porous materials. 1989 , 61, 1845-1852		203
2338	MPFs (Metalâ P eptide Frameworks). 2004 , 1-13		
2337	Metal-Containing Molecular Gels. 2004 , 1-7		
2336	Poly[mu4-sulfido-tris(thiocyanato-kappaN)tris(mu3-1,2,4-triazolato-kappa(3)N(1):N(2):N(4))tetrazinc(II) a three-dimensional zinc sulfide coordination polymer. 2008 , 64, m327-9]:	1
2335	ChemInform Abstract: Hybrid Porous Solids: Past, Present, Future. 2008 , 39, no		1
2334	Time-evolving self-organization and autonomous structural adaptation of cobalt(II)organic framework materials with scu and pts nets. 2008 , 14, 7136-9		37
2333	Polymorphic coordination networks responsive to CO2, moisture, and thermal stimuli: porous cobalt(II) and zinc(II) fluoropyrimidinolates. 2008 , 14, 9890-901		82
2332	Structure and charge control in metal-organic frameworks based on the tetrahedral ligand tetrakis(4-tetrazolylphenyl)methane. 2008 , 14, 10280-5		100
2331	Hierarchical Structures in Tin(II) Oxalates. 2008, 2008, 1376-1385		18
2330	The Use of Liquidâlliquid Interface (Biphasic) for the Preparation of Benzenetricarboxylate Complexes of Cobalt and Nickel. 2008 , 2008, 3501-3514		20
2329	meta-Phosphonobenzoic Acid: A Rigid Heterobifunctional Precursor for the Design of Hybrid Materials. 2008 , 2008, 4117-4125		31
2328	Structural effects of solvents on the breathing of metal-organic frameworks: an in situ diffraction study. 2008 , 47, 4100-5		180
2327	Amine grafting on coordinatively unsaturated metal centers of MOFs: consequences for catalysis and metal encapsulation. 2008 , 47, 4144-8		1031
2326	A metallacryptand-based manganese(II)-cobalt(II) ferrimagnet with a three-dimensional honeycomb open-framework architecture. 2008 , 47, 4211-6		40
2325	Cucurbit[6]uril: organic molecular porous material with permanent porosity, exceptional stability, and acetylene sorption properties. 2008 , 47, 3352-5		271
2324	Functionalized coordination space in metal-organic frameworks. 2008, 47, 8164-8		83
2323	Multiple functions of ionic liquids in the synthesis of three-dimensional low-connectivity homochiral and achiral frameworks. 2008 , 47, 5434-7		177

(2008-2008)

2322	Template-directed assembly of zeolite-like metal-organic frameworks (ZMOFs): a usf-ZMOF with an unprecedented zeolite topology. 2008 , 47, 8446-9	248
2321	A bistable porous coordination polymer with a bond-switching mechanism showing reversible structural and functional transformations. 2008 , 47, 8843-7	172
2320	Molecular dynamics simulations of breathing MOFs: structural transformations of MIL-53(Cr) upon thermal activation and CO2 adsorption. 2008 , 47, 8487-91	276
2319	Structural Effects of Solvents on the Breathing of MetalâDrganic Frameworks: An In Situ Diffraction Study. 2008 , 120, 4168-4173	34
2318	Amine Grafting on Coordinatively Unsaturated Metal Centers of MOFs: Consequences for Catalysis and Metal Encapsulation. 2008 , 120, 4212-4216	182
2317	A Metallacryptand-Based Manganese(II)âllobalt(II) Ferrimagnet with a Three-Dimensional Honeycomb Open-Framework Architecture. 2008 , 120, 4279-4284	10
2316	Cucurbit[6]uril: Organic Molecular Porous Material with Permanent Porosity, Exceptional Stability, and Acetylene Sorption Properties. 2008 , 120, 3400-3403	85
2315	Funktionalisierter Koordinationsraum in metall-organischen Gerŝten. 2008 , 120, 8285-8289	25
2314	Multiple Functions of Ionic Liquids in the Synthesis of Three-Dimensional Low-Connectivity Homochiral and Achiral Frameworks. 2008 , 120, 5514-5517	25
2313	Template-Directed Assembly of Zeolite-like MetalâØrganic Frameworks (ZMOFs): A usf-ZMOF with an Unprecedented Zeolite Topology. 2008 , 120, 8574-8577	19
2312	A Bistable Porous Coordination Polymer with a Bond-Switching Mechanism Showing Reversible Structural and Functional Transformations. 2008 , 120, 8975-8979	35
2311	Molecular Dynamics Simulations of Breathing MOFs: Structural Transformations of MIL-53(Cr) upon Thermal Activation and CO2 Adsorption. 2008 , 120, 8615-8619	29
2310	Hydrogen adsorption strength and sites in the metal organic framework MOF5: Comparing experiment and model calculations. 2008 , 351, 72-76	59
2309	MOFs as acid catalysts with shape selectivity properties. 2008 , 32, 937	121
2308	A new zirconium inorganic building brick forming metal organic frameworks with exceptional stability. 2008 , 130, 13850-1	4225
2307	An array-based study of reactivity under solvent-free mechanochemical conditionsâlhsights and trends. 2008 , 10, 1839	137
2306	Direct Imaging of Loaded MetalâDrganic Framework Materials (Metal@MOF-5). 2008 , 20, 5622-5627	131
2305	Prediction of the conditions for breathing of metal organic framework materials using a combination of X-ray powder diffraction, microcalorimetry, and molecular simulation. 2008 , 130, 12808-14	236

2304	Integrated molecular chirality, absolute helicity, and intrinsic chiral topology in three-dimensional open-framework materials. 2008 , 130, 17246-7	185
2303	Homochiral crystallization of microporous framework materials from achiral precursors by chiral catalysis. 2008 , 130, 12882-3	301
2302	Carborane-based metal-organic frameworks as highly selective sorbents for CO(2) over methane. 2008 , 4135-7	319
2301	Synthesis and characterisation of metalâBrganic frameworks containing bis(铟iketonate) linkers. 2008 , 10, 1474	8
2300	Enhanced Adsorption Selectivity of Hydrogen/Methane Mixtures in MetalâDrganic Frameworks with Interpenetration: A Molecular Simulation Study. 2008 , 112, 9854-9860	109
2299	Structural Transformations and adsorption of fuel-related gases of a structurally responsive nickel phosphonate metal-organic framework, Ni-STA-12. 2008 , 130, 15967-81	161
2298	Chemoenzymatic synthesis of chiral 4,4'-bipyridyls and their metal-organic frameworks. 2008, 5538-40	44
2297	Ruthenium nanoparticles inside porous [Zn4O(bdc)3] by hydrogenolysis of adsorbed [Ru(cod)(cot)]: a solid-state reference system for surfactant-stabilized ruthenium colloids. 2008 , 130, 6119-30	319
2296	Hydrocarbon adsorption in the flexible metal organic frameworks MIL-53(Al, Cr). 2008, 130, 16926-32	223
2295	New Zeolitic Imidazolate Frameworks: From Unprecedented Assembly of Cubic Clusters to Ordered Cooperative Organization of Complementary Ligands. 2008 , 20, 7377-7382	87
2294	A luminescent microporous metal-organic framework for the recognition and sensing of anions. 2008 , 130, 6718-9	918
2293	Effect of open metal sites on adsorption of polar and nonpolar molecules in metal-organic framework Cu-BTC. 2008 , 24, 8620-6	190
2292	Temperature-triggered gate opening for gas adsorption in microporous manganese formate. 2008 , 4697-9	62
2291	Size-selective Lewis acid catalysis in a microporous metal-organic framework with exposed Mn2+ coordination sites. 2008 , 130, 5854-5	753
2290	Hybrid organic-inorganic framework structures: influence of cation size on metal-oxygen-metal connectivity in the alkaline earth thiazolothiazoledicarboxylates. 2008 , 47, 8336-42	52
2289	The Kagom'topology of the gallium and indium metal-organic framework types with a MIL-68 structure: synthesis, XRD, solid-state NMR characterizations, and hydrogen adsorption. 2008 , 47, 11892-901	220
2288	Sonochemical synthesis of MOF-5. 2008 , 6336-8	281
2287	The current status of hydrogen storage in metalâBrganic frameworks. 2008 , 1, 222	386

(2008-2008)

2286	Sol-gel synthesis of low-dimensional silica within coordination nanochannels. 2008 , 130, 9216-7	40
2285	Exceptional behavior over the whole adsorption-storage-delivery cycle for NO in porous metal organic frameworks. 2008 , 130, 10440-4	357
2284	Molecular tectonics: control of pore size and polarity in 3-D hexagonal coordination networks based on porphyrins and a zinc cation. 2008 , 5104-6	28
2283	(infinity)(2)[Cu2(mu5-btb)(mu-OH)(mu-H2O)]: a two-dimensional coordination polymer built from ferromagnetically coupled Cu2 units (btb = benzene-1,2,3-tricarboxylate). 2008 , 4877-84	76
2282	Separating solids: purification of metal-organic framework materials. 2008 , 130, 8598-9	80
2281	Preparation, structures, and photocatalytic properties of three new uranyl-organic assembly compounds. 2008 , 47, 4844-53	205
2280	Effect of the nature of the metal on the breathing steps in MOFs with dynamic frameworks. 2008, 4732-4	245
2279	Is catenation beneficial for hydrogen storage in metal-organic frameworks?. 2008, 4132-4	73
2278	Role of temperature and time in the formation of infinite -M-O-M- linkages and isolated clusters in MOFs: a few illustrative examples. 2008 , 47, 8451-63	144
2277	Hysteretic sorption of light gases by a porous metal-organic framework containing tris(para-carboxylated) triphenylphosphine oxide. 2008 , 2891-3	45
2276	Kagom'type extra-large microporous solid based on a paddle-wheel Cu2+ dimer. 2008, 4436-8	33
2275	Unprecedented helix-based microporous metal-organic frameworks constructed from a single ligand. 2008 , 6143-5	31
2274	Syntheses, structures and luminescence properties of cadmium(II) coordination polymers with in situ formed oxalate and bis(chelating) bridging ligands. 2008 , 10, 1443	31
2273	A snapshot of a coordination polymer self-assembly process: the crystallization of a metastable 3D network followed by the spontaneous transformation in water to a 2D pseudopolymorphic phase. 2008 , 6381-3	18
2272	Quantum dynamics of adsorbed H2 in the microporous framework MOF-5 analyzed using diffuse reflectance infrared spectroscopy. 2008 , 77,	66
2271	The use of aluminium and others p elements (gallium, indium) for the generation of MOF-type materials. 2008 , 447-450	3
2270	Structural modulation of polythreading and interpenetrating coordination networks with an elongated dipyridyl building block and various anionic co-ligands. 2008 , 10, 1855	99
2269	A metal-organic framework containing discrete single-walled nanotubes based on curved trinuclear [Cu3(micro3-O)(micro-OH)(triazolate)2]+ building blocks. 2008 , 3995-7	64

2268	A three-dimensional lanthanide-organic radical open-framework. 2008, 3160-2	30
2267	Separation and molecular-level segregation of complex alkane mixtures in metal-organic frameworks. 2008 , 130, 10884-5	111
2266	Experimental evidence supported by simulations of a very high H2 diffusion in metal organic framework materials. 2008 , 100, 245901	94
2265	Tetravalent silicon connectors MenSi(p-C6H4CO2H)(4-n) (n = 0, 1, 2) for the construction of metal-organic frameworks. 2008 , 47, 9958-64	59
2264	Robust metal-organic framework enforced by triple-framework interpenetration exhibiting high H2 storage density. 2008 , 47, 6825-8	138
2263	Exceptional framework flexibility and sorption behavior of a multifunctional porous cuprous triazolate framework. 2008 , 130, 6010-7	416
2262	Evidence of flexibility in the nanoporous iron(iii) carboxylate MIL-89. 2008, 5462-4	46
2261	Molecular tectonics: control of reversible water release in porous charge-assisted H-bonded networks. 2008 , 130, 17106-13	77
2260	Broadly hysteretic H2 adsorption in the microporous metal-organic framework Co(1,4-benzenedipyrazolate). 2008 , 130, 7848-50	368
2259	Testing the High Spin MnII9WV6 Cluster as Building Block for Three-Dimensional Coordination Networks. 2008 , 8, 3817-3821	36
2258	Temperature- and stoichiometry-controlled dimensionality in a magnesium 4,5-imidazoledicarboxylate system with strong hydrophilic pore surfaces. 2008 , 47, 6578-80	113
2257	Effects of the side pockets on gas separation in metal-organic framework Cu-BTC: a molecular simulation study. 2009 , 35, 1249-1255	16
2256	(EG-Carb-oxy-1H-imidazole-4-carboxyl-ato-N,O:N,O)bis-[amminesilver(I)]. 2009 , 65, m1523	2
2255	Synthesis of metal-organic frameworks from the system metal/L-glutamic acid/TEA/H2O. 2009 , 62, 1959-1963	3 14
2254	Methane diffusion mechanism in catenated metalâBrganic frameworks. 2009 , 35, 373-380	7
2253	Synthesis and crystal structures of the chelating ligand 3-[(2,6-dimethylphenyl)hydrazono]-1,1,1-trifluoropentane-2,4-dione and its complex with copper(II). 2009 , 62, 3401-3410	14
2252	Gas adsorption applications of porous metalâBrganic frameworks. 2009 , 81, 2235-2251	91
2251	Chiral metal-organic porous materials: synthetic strategies and applications in chiral separation and catalysis. 2010 , 293, 115-53	40

2	2250	two metal-organic frameworks with infinite indium hydroxide chains connected through tetradentate carboxylate linkers. 2009 , 11, 29-35	23
2	2249	Syntheses and structures of the MOF-type series of metal 1,4,5,8,-naphthalenetetracarboxylates M2(OH)2[C14O8H4] (Al, Ga, In) with infinite trans-connected MâDHâM chains (MIL-122). 2009 , 11, 1507-1512	50
2	2248	Molecular Simulation of CO2/H2 Mixture Separation in Metal-organic Frameworks: Effect of Catenation and Electrostatic Interactions. 2009 , 17, 781-790	40
2	2247	Porous Chromium Terephthalate MIL-101 with Coordinatively Unsaturated Sites: Surface Functionalization, Encapsulation, Sorption and Catalysis. 2009 , 19, 1537-1552	748
2	2246	Hierarchic Nanostructure for Auto-Modulation of Material Release: Mesoporous Nanocompartment Films. 2009 , 19, 1792-1799	79
2	2245	Colloidal Route for Preparing Optical Thin Films of Nanoporous MetalâDrganic Frameworks. 2009 , 21, 1931-1935	228
2	2244	Zeolitic Boron Imidazolate Frameworks. 2009 , 121, 2580-2583	38
2	2243	Crystallographic Observation of Dynamic Gas Adsorption Sites and Thermal Expansion in a Breathable Fluorous MetalâDrganic Framework. 2009 , 121, 2538-2543	28
2	2242	A Thermally and Hydrolytically Stable Microporous Framework Exhibiting Single-Chain Magnetism: Structure and Properties of [Co2(H0.67bdt)3]?20 H2O. 2009 , 121, 2174-2177	16
2	2241	A Luminescent Microporous Metalâ©rganic Framework for the Fast and Reversible Detection of High Explosives. 2009 , 121, 2370-2374	154
2	2240	A Luminescent MetalâDrganic Framework with Lewis Basic Pyridyl Sites for the Sensing of Metal Ions. 2009 , 121, 508-511	155
2	2239	Metall-organische Gerŝte fî.die Katalyse. 2009 , 121, 7638-7649	213
2	2238	Versatile Structure-Directing Roles of Deep-Eutectic Solvents and Their Implication in the Generation of Porosity and Open Metal Sites for Gas Storage. 2009 , 121, 3538-3542	19
2	2237	Nitrogen and Hydrogen Adsorption by an Organic Microporous Crystal. 2009 , 121, 3323-3327	44
2	2236	The extra-framework sub-lattice of the metal-organic framework MIL-110: a solid-state NMR investigation. 2009 , 15, 3139-46	48
2	2235	Lanthanide-based coordination polymers assembled by a flexible multidentate linker: design, structure, photophysical properties, and dynamic solid-state behavior. 2009 , 15, 5273-88	58
2	2234	Synthesis and properties of (triptycenedicarboxylatio)zinc coordination networks. 2009 , 15, 5845-53	36
2	2233	Control of channel size for selective guest inclusion with inlaid anionic building blocks in a porous cationic metal-organic host framework. 2009 , 15, 6518-28	40

2232	Unprecedented sulfone-functionalized metal-organic frameworks and gas-sorption properties. 2009 , 15, 4523-7	114
2231	"Breathing" in adsorbate-responsive metal tetraphosphonate hybrid materials. 2009 , 15, 6612-8	38
2230	Development of a continuous-flow system for asymmetric hydrogenation using self-supported chiral catalysts. 2009 , 15, 9855-67	54
2229	Metal-ion-dependent gas sorptivity of elastic layer-structured MOFs. 2009 , 15, 7549-53	60
2228	Size selectivity of a copper metal-organic framework and origin of catalytic activity in epoxide alcoholysis. 2009 , 15, 12255-62	82
2227	Metal-organic perovskites: synthesis, structures, and magnetic properties of [C(NH2)3][M(II)(HCOO)3] (M = Mn, Fe, Co, Ni, Cu, and Zn; C(NH2)3 = guanidinium). 2009 , 15, 12050-64	206
2226	Facile purification of porous metal terephthalates with ultrasonic treatment in the presence of amides. 2009 , 15, 11730-6	48
2225	A 3D copper(II) coordination framework showing different kinetic and thermodynamic crystal transformations through removal of guest water cubes. 2009 , 15, 12974-7	104
2224	Design and Synthesis of New Differentiated Concurrent Mono- and Tridentate Ligands (Tectons) Based on Pyridine, Terpyridine, and Dihydrooxazole Units. 2009 , 92, 2497-2506	5
2223	Ab initio study of the interactions between CO(2) and N-containing organic heterocycles. 2009 , 10, 374-83	164
2222	Preferred hydrogen adsorption sites in various MOFsa comparative computational study. 2009 , 10, 2647-57	55
2221	Structural Flexibility and Selective Guest Accommodation in Two Cull Metalâ©rganic Coordination Frameworks. 2009 , 2009, 1592-1599	14
2220	Syntheses, Crystal Structures and Adsorption Properties of Ultramicroporous Coordination Polymers Constructed from Hexafluorosilicate Ions and Pyrazine. 2009 , 2009, 2329-2337	85
2219	Mixed-Linker Metal-Organic Frameworks as Catalysts for the Synthesis of Propylene Carbonate from Propylene Oxide and CO2. 2009 , 2009, 3552-3561	218
2218	Photoluminescent Metal-Organic Nanotubes via Hydrothermal in Situ Ligand Reactions. 2009 , 2009, 4213-4218	23
2217	Hysteretic Gas Sorption in a Microporous Metalâ©rganic Framework with Nonintersecting 3D Channels. 2009 , 2009, 4946-4949	27
2216	Lanthanide Metal-Organic Frameworks as ZieglerâNatta Catalysts for the Selective Polymerization of Isoprene. 2009 , 210, 1923-1932	63
2215	Schicht-fî-Schicht-Flŝsigphasenepitaxie von kristallinen Koordinationspolymeren an Oberflähen. 2009 , 121, 6321-6324	

2214	[Al4(OH)2(OCH3)4(H2N-bdc)3]?x H2O: A 12-Connected Porous MetalâDrganic Framework with an Unprecedented Aluminum-Containing Brick. 2009 , 121, 5265-5268	62
2213	Network Topology of a Hybrid Organic Zinc Phosphate with Bimodal Porosity and Hydrogen Adsorption. 2009 , 121, 6240-6243	20
2212	A Highly Connected Porous Coordination Polymer with Unusual Channel Structure and Sorption Properties. 2009 , 121, 5391-5394	36
2211	The Effect of Pressure on ZIF-8: Increasing Pore Size with Pressure and the Formation of a High-Pressure Phase at 1.47 GPa. 2009 , 121, 7221-7223	136
2210	Transport Diffusivity of CO2 in the Highly Flexible MetalâDrganic Framework MIL-53(Cr). 2009 , 121, 8485-848	934
2209	Nucleotide-Catalyzed Conversion of Racemic Zeolite-Type Zincophosphate into Enantioenriched Crystals. 2009 , 121, 6165-6167	9
2208	Adsorption and Catalytic Properties of the Inner Nanospace of a Gigantic Ring-Shaped Polyoxometalate Cluster. 2009 , 121, 8859-8862	31
2207	Breathing Transitions in MIL-53(Al) MetalâDrganic Framework Upon Xenon Adsorption. 2009 , 121, 8464-8467	23
2206	Engineering a MetalâDrganic Framework Catalyst by Using Postsynthetic Modification. 2009 , 121, 7560-7563	66
2205	Oxidative Addition of Halogens on Open Metal Sites in a Microporous Spin-Crossover Coordination Polymer. 2009 , 121, 9106-9109	34
2204	Self-Assembled Arrays of Single-Walled MetalâDrganic Nanotubes. 2009 , 121, 9625-9628	22
2203	Zeolitic boron imidazolate frameworks. 2009 , 48, 2542-5	208
2202	Crystallographic observation of dynamic gas adsorption sites and thermal expansion in a breathable fluorous metal-organic framework. 2009 , 48, 2500-5	179
2201	A thermally and hydrolytically stable microporous framework exhibiting single-chain magnetism: structure and properties of $[Co2(H0.67bdt)3] \times 20 H2O$. 2009 , 48, 2140-3	165
2200	A luminescent microporous metal-organic framework for the fast and reversible detection of high explosives. 2009 , 48, 2334-8	1106
2199	A luminescent metal-organic framework with Lewis basic pyridyl sites for the sensing of metal ions. 2009 , 48, 500-3	980
2198	Metal-organic frameworks: opportunities for catalysis. 2009 , 48, 7502-13	1612
2197	Versatile structure-directing roles of deep-eutectic solvents and their implication in the generation of porosity and open metal sites for gas storage. 2009 , 48, 3486-90	205

2196	Nitrogen and hydrogen adsorption by an organic microporous crystal. 2009 , 48, 3273-7	118
2195	Layer-by-layer liquid-phase epitaxy of crystalline coordination polymers at surfaces. 2009 , 48, 6205-8	35
2194	[Al4(OH)2(OCH3)4(H2N-bdc)3] x xH(2)O: a 12-connected porous metal-organic framework with an unprecedented aluminum-containing brick. 2009 , 48, 5163-6	233
2193	Network topology of a hybrid organic zinc phosphate with bimodal porosity and hydrogen adsorption. 2009 , 48, 6124-7	71
2192	A highly connected porous coordination polymer with unusual channel structure and sorption properties. 2009 , 48, 5287-90	354
2191	The effect of pressure on ZIF-8: increasing pore size with pressure and the formation of a high-pressure phase at 1.47 GPa. 2009 , 48, 7087-9	363
2190	Transport diffusivity of CO2 in the highly flexible metal-organic framework MIL-53(Cr). 2009, 48, 8335-9	102
2189	Nucleotide-catalyzed conversion of racemic zeolite-type zincophosphate into enantioenriched crystals. 2009 , 48, 6049-51	49
2188	Adsorption and catalytic properties of the inner nanospace of a gigantic ring-shaped polyoxometalate cluster. 2009 , 48, 8703-6	80
2187	Breathing transitions in MIL-53(Al) metal-organic framework upon xenon adsorption. 2009 , 48, 8314-7	161
2186	Engineering a metal-organic framework catalyst by using postsynthetic modification. 2009 , 48, 7424-7	220
2185	Oxidative addition of halogens on open metal sites in a microporous spin-crossover coordination polymer. 2009 , 48, 8944-7	151
2184	Self-assembled arrays of single-walled metal-organic nanotubes. 2009 , 48, 9461-4	110
2183	Natural gas treating by selective adsorption: Material science and chemical engineering interplay. 2009 , 155, 553-566	320
2182	Adsorption of propane, propylene and isobutane on a metalâBrganic framework: Molecular simulation and experiment. 2009 , 64, 3246-3259	177
2181	Adsorption of methane on porous metal carboxylates. 2009 , 15, 674-676	28
2180	Lanthanide N,N?-piperazine-bis(methylenephosphonates) (Ln=La, Ce, Nd) that display flexible frameworks, reversible hydration and cation exchange. 2009 , 182, 2769-2778	25
2179	High thermal stability and antiferromagnetic properties of a 3D Mn(II)-organic framework with metal carboxylate chains. 2009 , 923, 24-27	20

2178	Structural modulation of Cd(II) supramolecular frameworks with a versatile 2,4-dipyridyl-type building block and different dicarboxylate ligands. 2009 , 52, 1470-1478	9
2177	Synthesis, Characterization and Thermal Behavior of Two 4d-4f Coordination Polymers Based on N and O Donor Ligands. 2009 , 635, 393-398	12
2176	Mono- and Di-Potassium Derivatives of Benzenepentacarboxylic Acid. 2009 , 635, 439-444	11
2175	Three New Coordination Compounds with Push-Pull Ligand p-Aminobenzonitrile (4ABN). 2009 , 635, 2046-205	2 10
2174	Coordination Polymers Based on the 2,5-Dihydroxyterephthalate Ion and Alkaline Earth Metal (Ca, Sr) and Manganese Cations". 2009 , 635, 1953-1958	40
2173	Gas-sorption properties of cobalt(II)carborane-based coordination polymers as a function of morphology. 2009 , 5, 1727-31	123
2172	The future of chemistry. 2009 , 1, 5-5	1
2171	Predicting a structured future. 2009 , 1, 13-4	23
2170	Thither supramolecular chemistry?. 2009 , 1, 14-5	110
2169	Metal-organic frameworks: Improving pore performance. 2009 , 1, 26-7	62
2168	Metal-organic frameworks: entering the recognition domain. 2009 , 1, 603-4	27
2167	Soft porous crystals. 2009 , 1, 695-704	1800
2166	Roughness of mesoporous silica surfaces deduced from adsorption measurements. 2009 , 119, 9-17	42
2165	Metal-directed assembly of organicâfhorganic complexes constructed from V-shaped linkages. 2009 , 928, 125-131	9
2164	Magnetic and luminescence properties of Cu(II), Cu(II)4O4 core, and Cd(II) mixed-ligand metalâBrganic frameworks constructed from 1,2-bis(1,2,4-triazol-4-yl)ethane and benzene-1,3,5-tricarboxylate. 2009 , 362, 2452-2460	149
2163	A 2-D polymer assembled by cubane-like clusters [Tb4(OH)4(phen)3(H2O)3]8+ and 3-sulfobenzoate. 2009 , 362, 2537-2541	13
2162	Microwave synthesis of hybrid inorganicâBrganic materials including porous Cu3(BTC)2 from Cu(II)-trimesate mixture. 2009 , 119, 331-337	243
2161	Synthesis and crystal structure of Cu2[bbimb]: A metal-organic framework with zeolite ABW topology. 2009 , 119, 344-348	10

2160	Mechanism of benzene diffusion in MOF-5: A molecular dynamics investigation. 2009 , 125, 90-96		39
2159	Cobalt(II), silver(I), and lead(II) tetrabromoterephthalates exhibiting the 1-D linear chain, 2-D CdCl2-type layer, and 3-D penta-nodal mixed-connecting coordination frameworks. 2009 , 28, 505-510		19
2158	Cu(II) coordination polymers incorporating 3-aminopyridine and flexible aliphatic dicarboxylate ligands: Synthesis, structure and magnetic properties. 2009 , 28, 2466-2472		19
2157	3D-supramolecular copper(I) cyanide coordination polymers through hydrogen bonding. 2009 , 28, 2385-239	90	36
2156	Building thiol and metal-thiolate functions into coordination nets: Clues from a simple molecule. 2009 , 182, 1821-1826		46
2155	Molecular engineering for synthesizing novel structures of metalâbrganic frameworks with multifunctional properties. 2009 , 253, 2891-2911		583
2154	Unified MaxwellâBtefan description of binary mixture diffusion in micro- and meso-porous materials. 2009 , 64, 3159-3178		106
2153	Selective sulfoxidation of aryl sulfides by coordinatively unsaturated metal centers in chromium carboxylate MIL-101. 2009 , 358, 249-253		106
2152	Sixfold interpenetrated diamondoid network of Cu(I): Synthesis, structure, selective anion exchange and luminescence properties. 2009 , 473, 312-316		15
2151	An oxide chain constructed from octamolybdate, a Keggin anion and a copper (II) â□ Tetrapyridylpyrazine binuclear unit. 2009 , 12, 747-749		11
2150	Novel HgII and MnII supramolecular complexes with a versatile building block 5-(4-pyridyl)-1,3,4-oxadiazole-2-thiolate involving in situ ligand formation. 2009 , 12, 1038-1041		5
2149	Postsynthetic modification of metal-organic frameworks. <i>Chemical Society Reviews</i> , 2009 , 38, 1315-29 58.	5	1573
2148	Two-dimensional networks of lanthanide cubane-shaped dumbbells. 2009 , 48, 11748-54		62
2147	Industrial applications of metal-organic frameworks. <i>Chemical Society Reviews</i> , 2009 , 38, 1284-93 58.	5	1866
2146	Phosphines as building blocks in coordination-based self-assembly. <i>Chemical Society Reviews</i> , 2009 , 38, 1744-58	5	103
2145	Magnetic metal-organic frameworks. <i>Chemical Society Reviews</i> , 2009 , 38, 1353-79 58.	5	2146
2144	Postsynthetic modification switches an achiral framework to catalytically active homochiral metal-organic porous materials. 2009 , 131, 7524-5		355
2143	Quasi-2D XY magnetic properties and slow relaxation in a body centered metal organic network of [Co4] clusters. 2009 , 131, 10140-50		117

	study. 2009 , 600-2	57
2141	Zeolite RHO-type net with the lightest elements. 2009 , 131, 6111-3	155
2140	Metal-organic macrocycles, metal-organic polyhedra and metal-organic frameworks. 2009, 3326-41	128
2139	Reversible Two-Dimensionalâ¶hree Dimensional Framework Transformation within a Prototype MetalâDrganic Framework. 2009 , 9, 5293-5296	91
2138	Control of structure dimensionality and functional studies of flexible Cu(II) coordination polymers. 2009 , 4, 870-5	34
2137	Fluorite and mixed-metal Kagome-related topologies in metal-organic framework compounds: synthesis, structure, and properties. 2009 , 4, 936-47	14
2136	The illustrative use of thiosulfate in the formation of new three-dimensional hybrid structures. 2009 , 11, 55-57	21
2135	Adsorption-desorption and photocatalytic properties of inorganic-organic hybrid cadmium thiosulfate compounds. 2009 , 11, 11285-96	71
2134	Virtual high throughput screening confirmed experimentally: porous coordination polymer hydration. 2009 , 131, 15834-42	704
	A MOF-type magnesium benzene-1,3,5-tribenzoate with two-fold interpenetrated ReO3 nets. 2009 ,	
2133	11, 58-60	53
2133		300
	11, 58-60 Metathesis in single crystal: complete and reversible exchange of metal ions constituting the	
2132	11, 58-60 Metathesis in single crystal: complete and reversible exchange of metal ions constituting the frameworks of metal-organic frameworks. 2009, 131, 3814-5 Supercritical processing as a route to high internal surface areas and permanent microporosity in	300
2132	11, 58-60 Metathesis in single crystal: complete and reversible exchange of metal ions constituting the frameworks of metal-organic frameworks. 2009, 131, 3814-5 Supercritical processing as a route to high internal surface areas and permanent microporosity in metal-organic framework materials. 2009, 131, 458-60 Comparative study of hydrogen sulfide adsorption in the MIL-53(Al, Cr, Fe), MIL-47(V), MIL-100(Cr),	300 413
2132 2131 2130	Metathesis in single crystal: complete and reversible exchange of metal ions constituting the frameworks of metal-organic frameworks. 2009, 131, 3814-5 Supercritical processing as a route to high internal surface areas and permanent microporosity in metal-organic framework materials. 2009, 131, 458-60 Comparative study of hydrogen sulfide adsorption in the MIL-53(Al, Cr, Fe), MIL-47(V), MIL-100(Cr), and MIL-101(Cr) metal-organic frameworks at room temperature. 2009, 131, 8775-7 Synthesis, Single-Crystal X-ray Microdiffraction, and NMR Characterizations of the Giant Pore	300 413 399
2132 2131 2130 2129	Metathesis in single crystal: complete and reversible exchange of metal ions constituting the frameworks of metal-organic frameworks. 2009, 131, 3814-5 Supercritical processing as a route to high internal surface areas and permanent microporosity in metal-organic framework materials. 2009, 131, 458-60 Comparative study of hydrogen sulfide adsorption in the MIL-53(Al, Cr, Fe), MIL-47(V), MIL-100(Cr), and MIL-101(Cr) metal-organic frameworks at room temperature. 2009, 131, 8775-7 Synthesis, Single-Crystal X-ray Microdiffraction, and NMR Characterizations of the Giant Pore Metal-Organic Framework Aluminum Trimesate MIL-100. 2009, 21, 5695-5697 Structural Transitions and Flexibility during DehydrationâRehydration Process in the MOF-type	300 413 399 255
2132 2131 2130 2129 2128	Metathesis in single crystal: complete and reversible exchange of metal ions constituting the frameworks of metal-organic frameworks. 2009, 131, 3814-5 Supercritical processing as a route to high internal surface areas and permanent microporosity in metal-organic framework materials. 2009, 131, 458-60 Comparative study of hydrogen sulfide adsorption in the MIL-53(Al, Cr, Fe), MIL-47(V), MIL-100(Cr), and MIL-101(Cr) metal-organic frameworks at room temperature. 2009, 131, 8775-7 Synthesis, Single-Crystal X-ray Microdiffraction, and NMR Characterizations of the Giant Pore Metal-Organic Framework Aluminum Trimesate MIL-100. 2009, 21, 5695-5697 Structural Transitions and Flexibility during Dehydrationa Rehydration Process in the MOF-type Aluminum Pyromellitate Al2(OH)2[C10O8H2] (MIL-118). 2009, 9, 2927-2936 Co-adsorption and separation of CO2-CH4 mixtures in the highly flexible MIL-53(Cr) MOF. 2009,	300 413 399 255 77

2124	Multiroute synthesis of porous anionic frameworks and size-tunable extraframework organic cation-controlled gas sorption properties. 2009 , 131, 16027-9	233
2123	Near-infrared emitting ytterbium metal-organic frameworks with tunable excitation properties. 2009 , 4506-8	125
2122	Selective gas adsorption and separation in metal-organic frameworks. <i>Chemical Society Reviews</i> , 2009, 38, 1477-504	6570
2121	Post-synthesis alkoxide formation within metal-organic framework materials: a strategy for incorporating highly coordinatively unsaturated metal ions. 2009 , 131, 3866-8	281
2120	Polymerization reactions in porous coordination polymers. <i>Chemical Society Reviews</i> , 2009 , 38, 1228-36 58.5	568
2119	Temperature-Controlled Synthesis of Metal-Organic Coordination Polymers: Crystal Structure, Supramolecular Isomerism, and Porous Property. 2009 , 9, 4147-4156	134
2118	Doping of metal-organic frameworks with functional guest molecules and nanoparticles. 2010 , 293, 77-113	28
2117	Supramolecular isomerism in coordination polymers. <i>Chemical Society Reviews</i> , 2009 , 38, 2385-96 58.5	525
2116	New heterometallic carboxylate frameworks: synthesis, structure, robustness, flexibility, and porosity. 2009 , 48, 7970-6	27
2115	[M(C5O5)2(H2O)n]2âlas a Building Block for Hetero- and Homo-bimetallic Coordination Polymers: From 1D Chains to 3D Supramolecular Architectures. 2009 , 9, 1013-1019	14
2114	Template Synthesis of Porous Polypyrrole in 3D Coordination Nanochannels. 2009 , 21, 4096-4098	81
2113	Strategies for Characterization of Large-Pore Metal-Organic Frameworks by Combined Experimental and Computational Methods. 2009 , 21, 4768-4777	64
2112	Single crystal X-ray diffraction studies of carbon dioxide and fuel-related gases adsorbed on the small pore scandium terephthalate metal organic framework, Sc2(O2CC6H4CO2)3. 2009 , 25, 3618-26	84
2111	Isolated Co15 clusters and their assembly into a 3D network: conformation-directed synthesis. 2009 , 48, 8066-8	26
2110	Optimized acetylene/carbon dioxide sorption in a dynamic porous crystal. 2009 , 131, 5516-21	358
2109	Preparation and gas adsorption studies of three mesh-adjustable molecular sieves with a common structure. 2009 , 131, 6445-51	108
2108	A Porous Polyhedral Metal-Organic Framework Based on Zn2(COO)3 and Zn2(COO)4 SBUs. 2009 , 9, 2559-25	6153
2107	Exceptional stability and high hydrogen uptake in hydrogen-bonded metal-organic cubes possessing ACO and AST zeolite-like topologies. 2009 , 131, 10394-6	120

2106	A three-dimensional porous metal-organic framework constructed from two-dimensional sheets via interdigitation exhibiting dynamic features. 2009 , 48, 4616-8	40
2105	Zero-dimensional units of ligand-bridged gallium-sulfide supertetrahedra. 2009 , 48, 810-2	38
2104	Synthesis and crystallization of infinite indium and gallium acetate 1D chain structures and concomitant ethyl acetate hydrolysis. 2009 , 48, 3505-7	20
2103	Networks of Hexagonal Hierarchy from a Self-Similar Tritopic Molecule. 2009 , 9, 1663-1665	15
2102	A New Family of Bimetallic Framework Materials Showing Reversible Structural Transformations. 2009 , 9, 3104-3110	6
2101	Hybrid organicâlhorganic catalytic porous materials synthesized at neutral pH in absence of structural directing agents. 2009 , 19, 5970	33
2100	Microporous Nanotubular Self-Assembly of a Molecular Chair. 2009 , 9, 2979-2983	23
2099	The first organic-templated vanadyl(IV) gallophosphates with ambient (51)V hyperfine structure, {V(2)Ga(2)O(14)} cluster or heterometal 12-ring channels. 2009 , 48, 11882-8	8
2098	Facile synthesis of novel two- and three-dimensional coordination polymers containing dialkyltin phosphonate-based tri/tetra-nuclear clusters with appended sulfonate groups. 2009 , 48, 3608-16	20
2097	Solvothermal Synthesis and Diverse Coordinate Structures of a Series of Luminescent Copper(I) Thiocyanate Coordination Polymers Based on N-Heterocyclic Ligands. 2009 , 9, 4626-4633	83
2096	Metal complexes of cinchonine as chiral building blocks: a strategy for the construction of nanotubular architectures and helical coordination polymers. 2009 , 131, 5393-5	90
2095	Lanthanide Metalâ'Drganic Frameworks Based on Octahedral Secondary Building Units: Rare Net Topology and Luminescence. 2009 , 9, 2984-2987	82
2094	Targeted synthesis of a prototype MOF based on Zn4(O)(O2C)6 units and a nonlinear dicarboxylate ligand. 2009 , 48, 417-9	63
2093	Flexible ThioetherâAg(I) Interactions for Assembling Large Organic Ligands into Crystalline Networks. 2009 , 9, 1444-1451	18
2092	Collective effects of multiple chiral selectors on enantioselective adsorption. 2009 , 25, 10730-6	21
2091	Structural study of acidic metallocavitands and characterization of their interactions with Lewis bases. 2009 , 48, 1699-710	16
2090	An unprecedentedly huge square-grid copper(II)-organic framework material built from a bulky pyrene-derived elongated cross-shaped scaffold. 2009 , 48, 8650-2	21
2089	3,5-Diphosphonobenzoic Acid, a New Rigid Heterotrifunctional Building Block to Design Metal Organic Frameworks. Illustration with the Characterization of Cu5[(O3P)2-C6H3-CO2]2(H2O)6. 2009 , 9, 4262-4268	20

2088	Transformation of a Chiral Nanoporous Bimetallic Cyano-Bridged Framework Triggered by Dehydration/Rehydration. 2009 , 9, 3168-3176	17
2087	Synthesis and hydrogen storage properties of Be(12)(OH)(12)(1,3,5-benzenetribenzoate)(4). 2009 , 131, 15120-1	232
2086	Guest-induced irreversible sliding in a flexible 2D rectangular grid with selective sorption characteristics. 2009 , 48, 10886-8	61
2085	In Situ Obtained Cu(II) Compound with Coexistence of Polycatenation and Polythreading. 2009 , 9, 20-23	40
2084	Single-Crystal-to-Single-Crystal Structural Transformation in a Flexible Porous Gadolinium-Organic Framework with Selective and Controlled Sorption Properties. 2009 , 9, 3844-3847	33
2083	A Three-Dimensional Porous and Magnetic Framework Constructed from {Cu4(4-Cl)}+7 Clusters and 4-(1H-Tetrazol-5yl)-benzoic Acid, (Me2NH2)[Cu4Cl(tba)4(H2O)4][2DMF. 2009 , 9, 4258-4261	22
2082	Tuning the framework topologies of Co(II)-doped Zn(II)-tetrazole-benzoate coordination polymers by ligand modifications: structures and spectral studies. 2009 , 48, 3792-9	89
2081	Selective Gas Adsorption in One-Dimensional, Flexible Cull Coordination Polymers with Polar Units. 2009 , 21, 3346-3355	63
2080	Highly Tunable Heterometallic Frameworks Constructed from Paddle-Wheel Units and Metalloporphyrins. 2009 , 9, 1960-1965	64
2079	Method for Analyzing Structural Changes of Flexible Metalâ©rganic Frameworks Induced by Adsorbates. 2009 , 113, 19317-19327	67
2078	Non-carboxylate based metal-organic frameworks (MOFs) and related aspects. 2009 , 13, 46-53	20
2077	Cation-triggered drug release from a porous zinc-adeninate metal-organic framework. 2009 , 131, 8376-7	868
2076	Solvent free base catalysis and transesterification over basic functionalised Metal-Organic Frameworks. 2009 , 11, 1729	125
2075	Metallic and bimetallic nanocatalysts incorporated into highly porous coordination polymer MIL-101. 2009 , 19, 7625	267
2074	Ionothermal synthesisionic liquids as functional solvents in the preparation of crystalline materials. 2009 , 2990-8	388
2073	Polymorphism and inclusion properties of three-dimensional metal-organometallic frameworks derived from a terephthalate sandwich compound. 2009 , 48, 6860-72	23
2072	A new photoactive crystalline highly porous titanium(IV) dicarboxylate. 2009, 131, 10857-9	888
2071	Lanthanide-based luminescent hybrid materials. 2009 , 109, 4283-374	2 680

2070	Hierarchical Porous CoreâBhell Carbon Nanoparticles. 2009 , 21, 1524-1530	40
2069	Crystal to Crystal Guest Exchange in a Mixed Ligand MetalâDrganic Framework. 2009 , 9, 4588-4591	39
2068	In situ hydrothermal growth of metal-organic framework 199 films on stainless steel fibers for solid-phase microextraction of gaseous benzene homologues. 2009 , 81, 9771-7	315
2067	Synthesis, structure, and luminescent properties of hybrid inorganic-organic framework materials formed by lead aromatic carboxylates: inorganic connectivity variation from 0D to 3D. 2009 , 48, 6517-25	201
2066	Adsorption and desorption of hydrogen on metal-organic framework materials for storage applications: comparison with other nanoporous materials. 2009 , 1487-505	242
2065	Application of metalâBrganic frameworks with coordinatively unsaturated metal sites in storage and separation of methane and carbon dioxide. 2009 , 19, 7362	581
2064	Isomeric zinc(II) triazolate frameworks with 3-connected networks: syntheses, structures, and sorption properties. 2009 , 48, 3882-9	87
2063	Three-dimensional lanthanide anionic metal-organic frameworks with tunable luminescent properties induced by cation exchange. 2009 , 48, 6997-9	251
2062	CO Adsorption on CPO-27-Ni Coordination Polymer: Spectroscopic Features and Interaction Energy. 2009 , 113, 3292-3299	114
2061	Structural Variation in Porphyrin Pillared Homologous Series: Influence of Distinct Coordination Centers for Pillars on Framework Topology. 2009 , 9, 3327-3332	89
2060	Lanthanide Carboxyphosphonates Ln(O3PCH2â園C5H9âሺOO)(H2O)2ቬH2O with Open Framework Structures Containing Parallelogram-like Channels. 2009 , 9, 4445-4449	16
2059	Magnesium-based 3D metal-organic framework exhibiting hydrogen-sorption hysteresis. 2009 , 48, 8069-71	103
2058	A pillared-layer coordination polymer with a rotatable pillar acting as a molecular gate for guest molecules. 2009 , 131, 12792-800	274
2057	Screening of metal-organic frameworks for carbon dioxide capture from flue gas using a combined experimental and modeling approach. 2009 , 131, 18198-9	737
2056	New prototype isoreticular metal-organic framework Zn(4)O(FMA)(3) for gas storage. 2009 , 48, 4649-51	66
2055	Relating mechanical properties and chemical bonding in an inorganic-organic framework material: a single-crystal nanoindentation study. 2009 , 131, 14252-4	74
2054	Shape-Selective Sorption and Fluorescence Sensing of Aromatics in a Flexible Network of Tetrakis[(4-methylthiophenyl)ethynyl]silane and AgBF4. 2009 , 21, 541-546	46
2053	IM-19: a new flexible microporous gallium based-MOF framework with pressure- and temperature-dependent openings. 2009 , 11, 5241-5	47

2052	Occurrence of Uncommon Infinite Chains Consisting of Edge-Sharing Octahedra in a Porous Metal Organic Framework-Type Aluminum Pyromellitate Al4(OH)8[C10O8H2] (MIL-120): Synthesis, Structure, and Gas Sorption Properties. 2009 , 21, 5783-5791		90
2051	A catalytically active, permanently microporous MOF with metalloporphyrin struts. 2009 , 131, 4204-5		490
2050	Thin films of metal-organic frameworks. <i>Chemical Society Reviews</i> , 2009 , 38, 1418-29	58.5	756
2049	Reversible uptake of HgCl2 in a porous coordination polymer based on the dual functions of carboxylate and thioether. 2009 , 5439-41		85
2048	Enhanced CO2 Adsorption in Metal-Organic Frameworks via Occupation of Open-Metal Sites by Coordinated Water Molecules. 2009 , 21, 1425-1430		472
2047	Metal complexes with N-(2-pyridylmethyl)iminodiacetate: from discrete polynuclear compounds to 1D coordination polymers. 2009 , 5290-9		29
2046	Infinite coordination polymer nano- and microparticle structures. <i>Chemical Society Reviews</i> , 2009 , 38, 1218-27	58.5	7°5
2045	Large breathing effects in three-dimensional porous hybrid matter: facts, analyses, rules and consequences. <i>Chemical Society Reviews</i> , 2009 , 38, 1380-99	58.5	1373
2044	Structural diversity and retro-crystal engineering analysis of iodometalate hybrids. 2009 , 11, 720		223
2043	Porous Coordination Polymers Towards Gas Technology. 2009 , 96-106		
2042	Crystal structures and solid-state CPMAS 13C NMR correlations in luminescent zinc(II) and cadmium(II) mixed-ligand coordination polymers constructed from 1,2-bis(1,2,4-triazol-4-yl)ethane and benzenedicarboxylate. 2009 , 1742-51		191
2041	MOFs as adsorbents for low temperature heating and cooling applications. 2009 , 131, 2776-7		366
2040	Multiferroic behavior associated with an order-disorder hydrogen bonding transition in metal-organic frameworks (MOFs) with the perovskite ABX3 architecture. 2009 , 131, 13625-7		653
2039	Temperature and concentration control over interpenetration in a metal-organic material. 2009 , 131, 17040-1		353
2038	Magnetic and porous molecule-based materials. 2010 , 293, 207-58		52
2037	Zeolitic imidazolate framework membrane with molecular sieving properties by microwave-assisted solvothermal synthesis. 2009 , 131, 16000-1		966
2036	Comparative molecular simulation study of CO2/N2 and CH4/N2 separation in zeolites and metal-organic frameworks. 2009 , 25, 5918-26		256
2035	Some suggested perspectives for multifunctional hybrid porous solids. 2009 , 4400-15		158

2034	High-capacity methane storage in metal-organic frameworks M2(dhtp): the important role of open metal sites. 2009 , 131, 4995-5000	485
2033	Zeolite-like metal-organic frameworks (ZMOFs) as hydrogen storage platform: lithium and magnesium ion-exchange and H(2)-(rho-ZMOF) interaction studies. 2009 , 131, 2864-70	424
2032	Discrimination of small gas molecules through adsorption: reverse selectivity for hydrogen in a flexible metal-organic framework. 2009 , 48, 9980-2	53
2031	Adsorption-desorption induced structural changes of Cu-MOF evidenced by solid state NMR and EPR spectroscopy. 2009 , 131, 2058-9	61
2030	The Long Story and the Brilliant Future of Crystallized Porous Solids. 2009 , 107-134	1
2029	Ionothermal synthesis of inorganic-organic hybrid materials containing perfluorinated aliphatic dicarboxylate ligands. 2009 , 1131-5	26
2028	Novel dense organic-lanthanide hybrid architectures: syntheses, structures and magnetic properties. 2009 , 2528-39	35
2027	Methane Sorption in Nanoporous Metalâ©rganic Frameworks and First-Order Phase Transition of Confined Methane. 2009 , 113, 3029-3035	110
2026	In situ immobilization of metalloligands: a synthetic route to homometallic mixed-valence coordination polymers. 2009 , 48, 1433-41	42
2025	Stabilization of metal-organic frameworks with high surface areas by the incorporation of mesocavities with microwindows. 2009 , 131, 9186-8	297
2024	Nano- and micro-sized honeycomb patterns through hierarchical self-assembly of metal-loaded diblock copolymer vesicles. 2009 , 5, 2188-2197	44
2023	Selective oxidation of tetralin over a chromium terephthalate metal organic framework, MIL-101. 2009 , 3904-6	111
2022	Influence of the Benzoquinone Sorption on the Structure and Electrochemical Performance of the MIL-53(Fe) Hybrid Porous Material in a Lithium-Ion Battery. 2009 , 21, 1602-1611	191
2021	Immobilization of Alkali Metal Ions in a 3D Lanthanide-Organic Framework: Selective Sorption and H2 Storage Characteristics. 2009 , 21, 5406-5412	53
2020	Estimation of the breathing energy of flexible MOFs by combining TGA and DSC techniques. 2009 , 2733-5	48
2019	Toward Tailorable Porous Organic Polymer Networks: A High-Temperature Dynamic Polymerization Scheme Based on Aromatic Nitriles. 2009 , 42, 319-326	275
2018	Nanocrystals of [Cu3(btc)2] (HKUST-1): a combined time-resolved light scattering and scanning electron microscopy study. 2009 , 1031-3	101
2017	Multiadsorption and Coadsorption of Hydrogen on Model Conjugated Systems. 2009 , 113, 12571-12579	20

2016	Porous manganese(II) 3-(2-pyridyl)-5-(4-pyridyl)-1,2,4-triazolate frameworks: rational self-assembly, supramolecular isomerism, solid-state transformation, and sorption properties. 2009 , 48, 6652-60	82
2015	A twofold interpenetrating porous metal-organic framework with high hydrothermal stability: structure and gas sorption behavior. 2009 , 48, 11507-9	71
2014	Highly porous metal-organic framework containing a novel organosilicon linkera promising material for hydrogen storage. 2009 , 48, 6559-65	56
2013	Synthesis, Properties, and Gas Separation Studies of a Robust Diimide-Based Microporous Organic Polymer. 2009 , 21, 3033-3035	252
2012	A nanotubular metal-organic framework with permanent porosity: structure analysis and gas sorption studies. 2009 , 4049-51	78
2011	Crystallographic Evidence for Ionic Molecular Building Blocks in the Assembly of a Two-Dimensional MetalâDrganic Framework. 2009 , 9, 4998-5002	10
2010	Synthesis of meso-polyphosphorylporphyrins and example of self-assembling. 2009 , 11, 3842-5	46
2009	Highly tunable metalâBrganic frameworks with open metal centers. 2009 , 11, 553-555	165
2008	Adsorption and Diffusion of H2 in the MOF Type Systems MIL-47(V) and MIL-53(Cr): A Combination of Microcalorimetry and QENS Experiments with Molecular Simulations. 2009 , 113, 7802-7812	85
2007	Heats of adsorption for seven gases in three metal-organic frameworks: systematic comparison of experiment and simulation. 2009 , 25, 7383-8	183
2006	A Zn-based, pillared paddlewheel MOF containing free carboxylic acids via covalent post-synthesis elaboration. 2009 , 3720-2	142
2005	Two unprecedented porous anionic frameworks: organoammonium templating effects and structural diversification. 2009 , 8562-6	39
2004	Molecular simulations for adsorptive separation of CO2/CH4 mixture in metal-exposed, catenated, and charged metal-organic frameworks. 2009 , 25, 5239-47	126
2003	Enhancement of CO2/N2 selectivity in a metal-organic framework by cavity modification. 2009 , 19, 2131	346
2002	Postsynthetic modification: a versatile approach toward multifunctional metal-organic frameworks. 2009 , 48, 7341-9	180
2001	Ionothermal synthesis of two novel metal organophosphonates. 2009 , 795-9	19
2000	Organic materials for hydrogen storage applications: from physisorption on organic solids to chemisorption in organic molecules. 2009 , 2, 480	142
1999	Self-assembly of ambivalent organic/inorganic building blocks containing Re6 metal atom cluster: formation of a luminescent honeycomb, hollow, tubular metal-organic framework. 2009 , 48, 1482-9	56

1998	zinc-adeninate macrocycle. 2009 , 131, 8401-3	144
1997	Synthesis and characterization of two temperature-dependent copper(II) complexes based on 2,6-dimethylpyridine-3,5-dicarboxylate. 2009 , 62, 2480-2489	3
1996	Spontaneous resolution of racemic camphorates in the formation of three-dimensional metal-organic frameworks. 2009 , 48, 6356-8	46
1995	Luminescence of lanthanides in covalently pillared zirconium phosphate. 2009 , 19, 2494	28
1994	Coordination polymers of zinc with 2,2'-(2,3-bis-phenylsulfanylnaphthalene-1,4-yloxy)diacetic acid. 2009 , 2352-8	15
1993	Eliminating the need for independent counterions in the construction of metal-organic rotaxane frameworks (MORFs). 2009 , 5585-7	56
1992	Single layer growth of sub-micron metal-organic framework crystals observed by in situ atomic force microscopy. 2009 , 6294-6	53
1991	Adsorption of methane in heterometallic metal-organic frameworks with anions: a molecular simulation study. 2009 , 35, 213-219	5
1990	Synthesis of a one-dimensional coordination polymer containing pendant hydrosulfide groups. 2009 , 8018-24	13
1989	An unusual 3D coordination polymer assembled through parallel interpenetrating and polycatenating of (6,3) nets. 2009 , 11, 680	58
1988	Transformation of framework solids into processable metallo-polymers. 2009 , 7563-5	14
1987	Structural regularity and diversity in hybrids of aromatic thioethers and BiBr3: from discrete complexes to layers and 3D nets. 2009 , 5083-93	18
1986	Reversible solid-gas chemical equilibrium between a 0-periodic deformable molecular tecton and a 3-periodic coordination architecture. 2009 , 6943-5	31
1985	Vanadium polyoxoanion-bridged macrocyclic metal complexes: from one-dimensional to three-dimensional structures. 2009 , 71-6	40
1984	Large H2 storage capacity of a new polyhedron-based metal-organic framework with high thermal and hygroscopic stability. 2009 , 5397-9	82
1983	A porous 3D heterometal-organic framework containing both lanthanide and high-spin Fe(ii) ions. 2009 , 3113-5	130
1982	Sulfur-tagged metal-organic frameworks and their post-synthetic oxidation. 2009, 4218-20	92
1981	Molecular encapsulation of a discrete (H2O)32 cluster with S6 symmetry in an organic crystalline supermolecule. 2009 , 171-3	36

1980	Bulk homochirality of a 3-D inorganic framework: ligand control of inorganic network chirality. 2009 , 4551-3	26
1979	Polymorphism and variable structural dimensionality in the iron(III) phosphate oxalate system: a new polymorph of 3D [Fe2(HPO4)2(C2O4)(H2O)2] x 2 H2O and the layered material [Fe2(HPO4)2(C2O4)(H2O)2]. 2009 , 9176-82	16
1978	Oxygenation of alkylzinc complexes with pyrrolylketiminate ligand: access to alkylperoxide versus oxo-encapsulated complexes. 2009 , 215-7	50
1977	m-phosphonobenzoic acid and copper(II) as precursors of helical chain and lamellar hybrid materials. 2009 , 11, 556	37
1976	Synergistic metal and anion effects on the formation of coordination assemblies from a N,N?-bis(3-pyridylmethyl)naphthalene diimide ligand. 2009 , 11, 909	46
1975	Temperature- and solvent-controlled dimensionality in a zinc 6-(1H-benzoimidazol-2-yl)pyridinecarboxylate system. 2009 , 11, 847	51
1974	Double-walled tubular metalâBrganic frameworks constructed from bi-strand helices. 2009 , 11, 1831	14
1973	A bimetallic pillared-layer metal-organic coordination framework with a 3D biporous structure. 2009 , 4426-8	12
1972	Molecular tectonics: generation and structural studies on 1- and 2D coordination networks based on a meta-cyclophane in 1,3-alternate conformation bearing four pyrazolyl units and cobalt, zinc and copper cations. 2009 , 6309-14	9
1971	A hybrid cobalt disulfonate with a novel inorganic layer architecture exhibiting a field-induced magnetic transition. 2009 , 19, 2604	6
1970	Self-assembly of a hydrogen bonded framework from a gold phosphine complex with a pendant uracil group. 2009 , 2890-2	8
1969	XRD and IR structural investigations of a particular breathing effect in the MOF-type gallium terephthalate MIL-53(Ga). 2009 , 2241-9	229
1968	Structural and chemical complexity in multicomponent inorganicâBrganic framework materials. 2009 , 11, 980	22
1967	A computational study of enantioselective adsorption in a homochiral metalâBrganic framework. 2009 , 35, 50-59	34
1966	A cubic coordination framework constructed from benzobistriazolate ligands and zinc ions having selective gas sorption properties. 2009 , 6487-95	109
1965	A 3D Metal-Organic Framework with CdSO4-type Topology Through Assembly of Mixed Ligands. 2009 , 39, 341-344	1
1964	Interconversion between molecular polyhedra and metal-organic frameworks. 2009, 131, 6368-9	280
1963	Self-supported catalysts. 2009 , 109, 322-59	494

1962	Heterobimetallic Tungsten/Molybdenum(IV)â[Iopper(II) MOFs Constructed by a Unique 2D -> 3D Architecture and Exhibiting New Topology and Magnetic Properties. 2009 , 9, 5351-5355	20
1961	FUELS â[HYDROGEN STORAGE Metalâ[Drganic Frameworks. 2009 , 493-496	2
1960	Rigid rod and tetrahedral hybrid compounds featuring nucleobase and nucleoside end-capped structures. 2009 , 7, 3549-60	14
1959	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
1958	Near-infrared luminescent lanthanide MOF barcodes. 2009 , 131, 18069-71	410
1957	Thermally induced interconversions of metal-pyrimidine-4,6-dicarboxylate polymers: a structural, spectroscopic, and magnetic study. 2009 , 48, 3087-94	26
1956	In-Situ X-ray Diffraction Studies of Hostâtuest Properties in Nanoporous Zinc-Triazolate-Based Framework Materials. 2009 , 9, 3609-3614	13
1955	Pressure-induced cooperative bond rearrangement in a zinc imidazolate framework: a high-pressure single-crystal X-ray diffraction study. 2009 , 131, 4022-6	130
1954	Microporous MetalâDrganic Frameworks as Functional Materials for Gas Storage and Separation. 2009 , 307-352	2
1953	A Simulation Study of Hydrogen in MetalâDrganic Frameworks. 2010 , 28, 823-835	12
1953 1952	A Simulation Study of Hydrogen in MetalâDrganic Frameworks. 2010 , 28, 823-835 Comparison of the dynamics of MIL-53(Cr) and MIL-47(V) frameworks using neutron scattering and DFT methods. 2010 , 189, 263-271	30
	Comparison of the dynamics of MIL-53(Cr) and MIL-47(V) frameworks using neutron scattering and	
1952	Comparison of the dynamics of MIL-53(Cr) and MIL-47(V) frameworks using neutron scattering and DFT methods. 2010 , 189, 263-271 Lithium storage in a metal organic framework with diamondoid topology âlà case study on metal	30
1952 1951	Comparison of the dynamics of MIL-53(Cr) and MIL-47(V) frameworks using neutron scattering and DFT methods. 2010, 189, 263-271 Lithium storage in a metal organic framework with diamondoid topology âla case study on metal formates. 2010, 20, 8329 Conductivity, Doping, and Redox Chemistry of a Microporous Dithiolene-Based MetalâDrganic	30
1952 1951 1950	Comparison of the dynamics of MIL-53(Cr) and MIL-47(V) frameworks using neutron scattering and DFT methods. 2010, 189, 263-271 Lithium storage in a metal organic framework with diamondoid topology âlà case study on metal formates. 2010, 20, 8329 Conductivity, Doping, and Redox Chemistry of a Microporous Dithiolene-Based MetalâDrganic Framework. 2010, 22, 4120-4122 The remarkable catalytic activity of the saturated metal organic framework V-MIL-47 in the	30 168 403
1952 1951 1950	Comparison of the dynamics of MIL-53(Cr) and MIL-47(V) frameworks using neutron scattering and DFT methods. 2010, 189, 263-271 Lithium storage in a metal organic framework with diamondoid topology âlà case study on metal formates. 2010, 20, 8329 Conductivity, Doping, and Redox Chemistry of a Microporous Dithiolene-Based MetalâDrganic Framework. 2010, 22, 4120-4122 The remarkable catalytic activity of the saturated metal organic framework V-MIL-47 in the cyclohexene oxidation. 2010, 46, 5085-7 Evaluation of heterogeneous metal-organic framework organocatalysts prepared by postsynthetic	30 168 403 103
1952 1951 1950 1949	Comparison of the dynamics of MIL-53(Cr) and MIL-47(V) frameworks using neutron scattering and DFT methods. 2010, 189, 263-271 Lithium storage in a metal organic framework with diamondoid topology âlā case study on metal formates. 2010, 20, 8329 Conductivity, Doping, and Redox Chemistry of a Microporous Dithiolene-Based MetalâDrganic Framework. 2010, 22, 4120-4122 The remarkable catalytic activity of the saturated metal organic framework V-MIL-47 in the cyclohexene oxidation. 2010, 46, 5085-7 Evaluation of heterogeneous metal-organic framework organocatalysts prepared by postsynthetic modification. 2010, 49, 8086-91 Synthesis, Characterization, and Catalytic Application of a Cationic MetalâDrganic Framework:	30 168 403 103

1944	Metal oxide-organic frameworks (MOOFs), a new series of coordination hybrids constructed from molybdenum(VI) oxide and bitopic 1,2,4-triazole linkers. 2010 , 39, 4223-31	55
1943	Fabrication of free-standing ultrathin films of porous metal-organic frameworks by liquid-phase epitaxy and subsequent delamination. 2010 , 4, 197-199	32
1942	Understanding gas separation in metalâBrganic frameworks using computer modeling. 2010 , 20, 10308	76
1941	A Multifaceted Cage Cluster, [CoII6O12 ? X]â[[X = Clâ[br Fâ]] Halide Template Effect and Frustrated Magnetism. 2010 , 22, 4328-4334	74
1940	A new 2-D cobalt coordination polymer with the flexible 2-(1H-imidazole-1-yl)acetate: synthesis, structure, and characterization. 2010 , 63, 1504-1513	12
1939	Coordination Assemblies of CoII/CuII/ZnII/CdII with 2,5-Bipyridyl-1,3,4-Oxadiazole and Dicyanamide Anion: Structural Diversification and Properties. 2010 , 10, 3285-3296	34
1938	Comparative Study of Separation Performance of COFs and MOFs for CH4/CO2/H2 Mixtures. 2010 , 49, 2902-2906	83
1937	MOFs, MILs and more: concepts, properties and applications for porous coordination networks (PCNs). 2010 , 34, 2366	934
1936	Functionalization in flexible porous solids: effects on the pore opening and the host-guest interactions. 2010 , 132, 1127-36	384
1935	Separation of styrene and ethylbenzene on metal-organic frameworks: analogous structures with different adsorption mechanisms. 2010 , 132, 15277-85	181
1934	Hydrogen-bonded boron imidazolate frameworks. 2010 , 39, 1702-4	12
1933	Two robust porous metal-organic frameworks sustained by distinct catenation: selective gas sorption and single-crystal-to-single-crystal guest exchange. 2010 , 5, 2358-68	52
1932	Aerobic Oxidation of Benzyl Amines to Benzyl Imines Catalyzed by MetalâDrganic Framework Solids. 2010 , 2, 1438-1443	116
1931	Anion-Controlled Assembly of Silver(I) Complexes of Multiring Heterocyclic Ligands: A Structural and Photophysical Study. 2010 , 10, 1269-1282	43
1930	Trends in the adsorption of volatile organic compounds in a large-pore metal-organic framework, IRMOF-1. 2010 , 26, 11319-29	67
1929	Recent advances in crystal engineering. 2010 , 12, 22-43	642
1928	Control over catenation in metal-organic frameworks via rational design of the organic building block. 2010 , 132, 950-2	321
1927	A layered coordination polymer based on an azodibenzoate linker connected to aluminium (MIL-129). 2010 , 12, 3225	15

1926	Hydrogen physisorption in metalâBrganic frameworks: concepts and quantum chemical calculations. 2010 , 127, 259-270	13
1925	Metal-dependent dimensionality in coordination polymers of a semi-rigid dicarboxylate ligand with additional amide groups: Syntheses, structures and luminescent properties. 2010 , 363, 3172-3177	31
1924	A novel combined manufacturing technique for rapid production of IRMOF-1 using ultrasound and microwave energies. 2010 , 165, 966-973	88
1923	Synthesis of supramolecular solid polymer electrolytes via self-assembly of diborylated ionic liquid. 2010 , 195, 6182-6186	11
1922	Synthesis of metalåBrganic framework MIL-101 in TMAOH-Cr(NO3)3-H2BDC-H2O and its hydrogen-storage behavior. 2010 , 130, 174-179	106
1921	Evaluation of synthetic methods for microporous metalâBrganic frameworks exemplified by the competitive formation of [Cu2(btc)3(H2O)3] and [Cu2(btc)(OH)(H2O)]. 2010 , 132, 121-127	187
1920	Optimal isosteric heat of adsorption for hydrogen storage and delivery using metalâ®rganic frameworks. 2010 , 132, 300-303	116
1919	Molecular simulations of very high pressure hydrogen storage using metalâBrganic frameworks. 2010 , 135, 178-186	17
1918	Anion assisted self-assembly of a Ni(II) complex into metallo-supramolecular network involving H-bonded synthons as nodes. 2010 , 964, 18-26	14
1917	Fabrication of supramolecular frameworks by tuning the binding site of a tripodal ligand with d 10 metal ions: Interplay of covalent and non-covalent interactions in solid-state structure. 2010 , 122, 801-806	5
1916	Hydrothermal Synthesis, Crystal Structure and Magnetic Properties of Lithium Manganese Complex of Benzene-Hexacarboxylic Acid (Mellitic Acid). 2010 , 20, 564-569	6
1915	2D Cationic Metal-Organic Frameworks of Ag+ with Mixed Ligands (Semi-Rigid Dipyridyl, 3-pmpmd, and Diphosphine, dppe). 2010 , 20, 809-815	3
1914	An alternative activation method for the enhancement of methane storage capacity of nanoporous aluminium terephthalate, MIL-53(Al). 2010 , 17, 523-528	66
1913	Three new copper(II) halides with simple pyridine alcohols. 2010 , 21, 263-267	22
1912	Copper(II) coordination frameworks with 1H-benzimidazole-5,6-dicarboxylic acid: syntheses, crystal structures and magnetic properties. 2010 , 35, 829-834	6
1911	Designing Heterogeneous Catalysts by Incorporating Enzyme-Like Functionalities into MOFs. 2010 , 53, 859-868	62
1910	Some Difficult Challenges for the Synthesis of Nanoporous Materials. 2010 , 53, 1291-1296	25
1909	Luminescence properties of mesoporous chromium(III) terephthalate and inclusion compounds of cluster complexes. 2010 , 59, 741-744	12

1908	Open layers based on metal-oxide chains linked by cyclohexanedicarboxylate ligands. 2010 , 12, 76-82	12
1907	Self-assembly of a two-dimensional bimetallic coordination framework and dynamic control of reversible conversions to homo-metallic hydrogen-bond arrays. 2010 , 11, 97-100	28
1906	Probing the mechanical properties of hybrid inorganic-organic frameworks: a computational and experimental study. 2010 , 11, 2332-6	34
1905	Interfacial systems chemistry: out of the vacuumthrough the liquidinto the cell. 2010 , 11, 3201-13	21
1904	Thermodynamics of hydrogen adsorption on metal-organic frameworks. 2010 , 11, 3237-42	42
1903	Hydrogen sulfide adsorption on MOFs and MOF/graphite oxide composites. 2010 , 11, 3678-84	173
1902	Effect of Water Concentration and Acidity on the Synthesis of Porous Chromium Benzenedicarboxylates. 2010 , 2010, 1043-1048	43
1901	A New Cobalt(II)-Layered Network Based on Phenyl(carboxymethyl) Phosphinate. 2010 , 2010, 3179-3184	18
1900	Crystal Engineering of Three Net-to-Net Intersecting MetalâDrganic Frameworks from Two Comparable Organic Linking Squares. 2010 , 2010, 3750-3755	14
1899	Construction of Three-Dimensional UranylâDrganic Frameworks with Benzenetricarboxylate Ligands. 2010 , 2010, 3780-3788	7°
1898	A Microporous MetalâDrganic Framework with Immobilized âDH Functional Groups within the Pore Surfaces for Selective Gas Sorption. 2010 , 2010, 3745-3749	92
1897	Selective Separation of the Sulfate Anion by In Situ Crystallization of CdII Coordination Compounds Derived from Bis(pyridyl) Ligands Equipped with a Urea/Amide Hydrogen-Bonding Backbone. 2010 , 2010, 3770-3779	24
1896	Construction of a 2D Rectangular Grid and 3D Diamondoid Interpenetrated Frameworks and Their Functionalities by Changing the Second Spacers. 2010 , 2010, 3762-3769	29
1895	Cobalt(II) Coordination Polymers Containing trans-1,2-Bis(4-pyridyl)ethene and Their Magnetic Properties. 2010 , 2010, 3856-3865	19
1894	Manganese-Based Metalâ�rganic Frameworks as Heterogeneous Catalysts for the Cyanosilylation of Acetaldehyde. 2010 , 2010, 3804-3812	58
1893	Synthesis, Structure, Characterization, and Redox Properties of the Porous MIL-68(Fe) Solid. 2010 , 2010, 3789-3794	157
1892	Synthesis and Structural Flexibility of a Series of Copper(II) Azolate-Based MetalâDrganic Frameworks. 2010 , 2010, 3739-3744	26
1891	Anionic MetalâDrganic Frameworks of Bismuth Benzenedicarboxylates: Synthesis, Structure and Ligand-Sensitized Photoluminescence. 2010 , 2010, 3823-3828	71

1890	Accelerated Syntheses of Porous Isostructural LanthanideâBenzenetricarboxylates (LnâBTC) Under Ultrasound at Room Temperature. 2010 , 2010, 4975-4981	56
1889	Copper(I) in the Cleft: Syntheses, Structures and Catalytic Properties of {Cu+â�o3+â�u+} and {Cu+â�e3+â�u+} Heterobimetallic Complexes. 2010 , 2010, 4546-4554	40
1888	Porous Porphyrin Nanoarchitectures on Surfaces. 2010 , 2010, 3715-3724	65
1887	Syntheses, Structures and Properties of a Series of ZnII Complexes Constructed from a Tetrakis(imidazole) Ligand and Various Anions. 2010 , 2010, 5709-5717	23
1886	Ti8O8(OOCR)16, a New Family of Titaniumâ©xo Clusters: Potential NBUs for Reticular Chemistry. 2010 , 2010, 5650-5659	68
1885	EXAFS as Powerful Analytical Tool for the Investigation of Organicalhorganic Hybrid Materials. 2010 , 20, 4026-4047	32
1884	Hydrogen storage in metal-organic frameworks. 2010 , 22, E117-30	305
1883	Rational extension of the family of layered, covalent, triazine-based frameworks with regular porosity. 2010 , 22, 2202-5	383
1882	Evolution of nanoscale pore structure in coordination polymers during thermal and chemical exposure revealed by positron annihilation. 2010 , 22, 1598-601	51
1881	Formate-based magnetic metal-organic frameworks templated by protonated amines. 2010 , 22, 1526-33	217
1880	Engineering homochiral metal-organic frameworks for heterogeneous asymmetric catalysis and enantioselective separation. 2010 , 22, 4112-35	743
1879	Coordination modulation induced synthesis of nanoscale Eu(1-x)Tb(x)-metal-organic frameworks for luminescent thin films. 2010 , 22, 4190-2	287
1878	Controllable synthesis of metal-organic frameworks: From MOF nanorods to oriented MOF membranes. 2010 , 22, 3322-6	327
1877	Novel MOF-membrane for molecular sieving predicted by IR-diffusion studies and molecular modeling. 2010 , 22, 4741-3	205
1876	Heterogeneous Selective Oxidation of Alkenes to 田Unsaturated Ketones over Coordination Polymer MIL-101. 2010 , 352, 2943-2948	80
1875	Physisorption in Porous Materials. 2010 , 39-62	11
1874	Supramolecular Interactions and Smart Materials: CâXâX?âM Halogen Bonds and Gas Sorption in Molecular Solids. 2010 , 115-138	5
1873	Hochdurchsatzmethoden zur Entdeckung und Optimierung kristalliner porßer Materialien. 2010 , 82, 1039-1047	9

1872	Metallorganische Gerŝtverbindungen (MOFs). 2010 , 82, 1019-1023	13
1871	Thermally stable porous hydrogen-bonded coordination networks displaying dual properties of robustness and dynamics upon guest uptake. 2010 , 16, 1841-8	69
1870	An interpenetrated framework material with hysteretic CO(2) uptake. 2010 , 16, 276-81	186
1869	Synthesis of a metal-organic framework material, iron terephthalate, by ultrasound, microwave, and conventional electric heating: a kinetic study. 2010 , 16, 1046-52	245
1868	Metal-organic frameworks with exceptionally high methane uptake: where and how is methane stored?. 2010 , 16, 5205-14	208
1867	Direct observation of molecular-level template action leading to self-assembly of a porous framework. 2010 , 16, 3926-32	99
1866	Water stable Zr-benzenedicarboxylate metal-organic frameworks as photocatalysts for hydrogen generation. 2010 , 16, 11133-8	613
1865	Cu and Au metal-organic frameworks bridge the gap between homogeneous and heterogeneous catalysts for alkene cyclopropanation reactions. 2010 , 16, 9789-95	102
1864	Dynamic calcium metal-organic framework acts as a selective organic solvent sponge. 2010 , 16, 11632-40	50
1863	Heterometallic modular metal-organic 3D frameworks assembled via new tris-毗iketonate metalloligands: nanoporous materials for anion exchange and scaffolding of selected anionic guests. 2010 , 16, 12328-41	95
1862	Unusual chain-length dependence of the diffusion of n-alkanes in the metal-organic framework MIL-47(V): The Blowgun effect. 2010 , 16, 10337-41	39
1861	Porous lithium imidazolate frameworks constructed with charge-complementary ligands. 2010 , 16, 13035-40	62
1860	One-, two- and three-periodic metal-organic rotaxane frameworks (MORFs): linking cationic transition-metal nodes with an anionic rotaxane ligand. 2010 , 16, 13630-7	53
1859	Molecular Sieve Membrane: Supported MetalâDrganic Framework with High Hydrogen Selectivity. 2010 , 122, 558-561	153
1858	In Situ Synthesis of an Imidazolate-4-amide-5-imidate Ligand and Formation of a Microporous ZincâDrganic Framework with H2-and CO2-Storage Ability. 2010 , 122, 1280-1284	30
1857	A Tale of Three Carboxylates: Cooperative Asymmetric Crystallization of a Three-Dimensional Microporous Framework from Achiral Precursors. 2010 , 122, 1289-1292	16
1856	MetalâlDrganic Framework MIL-101 for High-Resolution Gas-Chromatographic Separation of Xylene Isomers and Ethylbenzene. 2010 , 122, 1519-1522	39
1855	Dipeptide Crystals as Excellent Permselective Materials: Sequential Exclusion of Argon, Nitrogen, and Oxygen. 2010 , 122, 3098-3100	10

1854	Bio-MOFs: Metall-organische Gerste fr.biologische und medizinische Anwendungen. 2010 , 122, 6400-6406	96
1853	Abscheidung von Kohlendioxid: Perspektiven fî.neue Materialien. 2010 , 122, 6194-6219	275
1852	A MetalâlDrganic Framework as an Electrocatalyst for Ethanol Oxidation. 2010 , 122, 5476-5479	35
1851	Solid Solutions of Soft Porous Coordination Polymers: Fine-Tuning of Gas Adsorption Properties. 2010 , 122, 4930-4934	55
1850	Controlled Reducibility of a MetalâDrganic Framework with Coordinatively Unsaturated Sites for Preferential Gas Sorption. 2010 , 122, 6085-6088	53
1849	Dynamics of Benzene Rings in MIL-53(Cr) and MIL-47(V) Frameworks Studied by 2H NMR Spectroscopy. 2010 , 122, 4901-4904	31
1848	Generating Reactive MILs: Isocyanate- and Isothiocyanate-Bearing MILs through Postsynthetic Modification. 2010 , 122, 4748-4752	24
1847	Porous Metal Carboxylate Boron Imidazolate Frameworks. 2010 , 122, 5490-5494	12
1846	The Reaction of Organozinc Compounds with an Aldehyde within a Crystalline Molecular Flask. 2010 , 122, 5886-5888	7
1845	Control of Interpenetration for Tuning Structural Flexibility Influences Sorption Properties. 2010 , 122, 7826-7830	38
1844	MetalâDrganic Frameworks from Edible Natural Products. 2010 , 122, 8812-8816	55
1843	Cinchona AlkaloidâMetal Complexes: Noncovalent Porous Materials with Unique Gas Separation Properties. 2010 , 122, 7189-7193	8
1842	Using Pressure to Provoke the Structural Transition of MetalâDrganic Frameworks. 2010 , 122, 7688-7691	26
1841	Cation-Exchange Porosity Tuning in Anionic Metalâ©rganic Frameworks for the Selective Separation of Gases and Vapors and for Catalysis. 2010 , 122, 7466-7469	25
1840	Urothermal Synthesis of Crystalline Porous Materials. 2010 , 122, 9060-9063	19
1839	A High-Performance Gas-Separation Membrane Containing Submicrometer-Sized MetalâDrganic Framework Crystals. 2010 , 122, 10059-10062	79
1838	Molecular sieve membrane: supported metal-organic framework with high hydrogen selectivity. 2010 , 49, 548-51	497
1837	In situ synthesis of an imidazolate-4-amide-5-imidate ligand and formation of a microporous zinc-organic framework with H2- and CO2-storage ability. 2010 , 49, 1258-62	120

1836	A tale of three carboxylates: cooperative asymmetric crystallization of a three-dimensional microporous framework from achiral precursors. 2010 , 49, 1267-70	163
1835	Metal-organic framework MIL-101 for high-resolution gas-chromatographic separation of xylene isomers and ethylbenzene. 2010 , 49, 1477-80	368
1834	Dipeptide crystals as excellent permselective materials: sequential exclusion of argon, nitrogen, and oxygen. 2010 , 49, 3034-6	53
1833	BioMOFs: metal-organic frameworks for biological and medical applications. 2010 , 49, 6260-6	932
1832	Carbon dioxide capture: prospects for new materials. 2010 , 49, 6058-82	3035
1831	A metal-organic framework as an electrocatalyst for ethanol oxidation. 2010 , 49, 5348-51	144
1830	Solid solutions of soft porous coordination polymers: fine-tuning of gas adsorption properties. 2010 , 49, 4820-4	273
1829	Controlled reducibility of a metal-organic framework with coordinatively unsaturated sites for preferential gas sorption. 2010 , 49, 5949-52	430
1828	Dynamics of benzene rings in MIL-53(Cr) and MIL-47(V) frameworks studied by 2H NMR spectroscopy. 2010 , 49, 4791-4	115
1827	Generating reactive MILs: isocyanate- and isothiocyanate-bearing MILs through postsynthetic modification. 2010 , 49, 4644-8	108
1826	Porous metal carboxylate boron imidazolate frameworks. 2010 , 49, 5362-6	88
1825	The reaction of organozinc compounds with an aldehyde within a crystalline molecular flask. 2010 , 49, 5750-2	41
1824	Control of interpenetration for tuning structural flexibility influences sorption properties. 2010 , 49, 7660-4	173
1823	Metal-organic frameworks from edible natural products. 2010 , 49, 8630-4	426
1822	Cinchona alkaloid-metal complexes: noncovalent porous materials with unique gas separation properties. 2010 , 49, 7035-9	41
1821	Using pressure to provoke the structural transition of metal-organic frameworks. 2010 , 49, 7526-9	175
1820	Cation-exchange porosity tuning in anionic metal-organic frameworks for the selective separation of gases and vapors and for catalysis. 2010 , 49, 7308-11	145
1819	Urothermal synthesis of crystalline porous materials. 2010 , 49, 8876-9	172

1818	A high-performance gas-separation membrane containing submicrometer-sized metal-organic framework crystals. 2010 , 49, 9863-6	558
1817	Adsorptive removal of methyl orange from aqueous solution with metal-organic frameworks, porous chromium-benzenedicarboxylates. 2010 , 181, 535-535	476
1816	Optical properties of red, green and blue emitting rare earth benzenetricarboxylate compounds. 2010 , 130, 283-291	58
1815	Lanthanide oxalatophosphonates with two- and three-dimensional structures. 2010 , 183, 1159-1164	14
1814	Synthesis, crystal structure and thermal behavior of two hydrated forms of lanthanide phthalates Ln2(O2+C6H4âtIO2)3(H2O) (Ln=Ce, Nd) and Nd2(O2CâtI6H4âtIO2)3(H2O)3. 2010 , 183, 1943-1948	4
1813	Mixed-ligand metallosupramolecular complexes with Brn-terephthalic acid (n=1 or 4) and a versatile bent dipyridyl tecton: Structural modulation by substituent effect of the ligand and metal ion. 2010 , 29, 463-469	18
1812	Syntheses, structures, photoluminescences of silver(I) coordination polymers with 2-aminopyrazine and varied dicarboxylate ligands. 2010 , 29, 1243-1250	37
1811	Hydrothermal synthesis and structural characterization of bimetallic organicalhorganic hybrid materials: Copper vanadateall,4-Carboxy-phenylphosphonate phases. 2010 , 363, 330-337	12
1810	Syntheses, structures and magnetic properties of Mn(II), Co(II) and Ni(II) metalâBrganic frameworks constructed from 1,3,5-benzenetricarboxylate and formate ligands. 2010 , 363, 645-652	40
1809	Coordination polymers of Cu(II) and Cd(II) with bifunctional chelates of the type dipicolylamino-alkylcarboxylate, (NC5H4CH2)2N(CH2)nCO2H (n = 1, 2, 3 and 4). 2010 , 363, 1659-1665	12
1808	Coordinated cations in dipicolinato complexes of divalent metal ions. 2010 , 363, 1479-1487	30
1807	A >22 llong metal-complex anion and a 1D cationic coordination polymer, both based on 4,4?-bipyridine-N,N?-dioxide, yielding a 3D and 2-fold interpenetrated fsc net of the hydrogen-bonded metal-organic 1D polymer. 2010 , 363, 2193-2200	19
1806	Structure and luminescence of copper(I) cyanideâlimine and âliulfide networks. 2010 , 364, 102-114	33
1805	Porosity tuning of carborane-based metalâBrganic frameworks (MOFs) via coordination chemistry and ligand design. 2010 , 364, 266-271	52
1804	Metal organic frameworks as NO delivery materials for biological applications. 2010 , 129, 330-334	186
1803	Engineering of coordination polymers for shape selective alkylation of large aromatics and the role of defects. 2010 , 129, 319-329	166
1802	Incommensurate guest adsorption in bellows-shaped one-dimensional channels of porous coordination polymers. 2010 , 129, 296-303	23
1801	Atomistic theoretical models for nanoporous hybrid materials. 2010 , 129, 304-318	46

1800	Vapor-phase adsorption of alkylaromatics on aluminum-trimesate MIL-96: An unusual increase of adsorption capacity with temperature. 2010 , 129, 274-277	22
1799	Computational study of the effect of organic linkers on natural gas upgrading in metalâBrganic frameworks. 2010 , 130, 76-82	61
1798	Co(en)3 1/3[In(ox)2]ß.5H2O: A zeolitic metal-organic framework templated by Co(en)3Cl3. 2010 , 132, 453-457	41
1797	Adsorption of C5â¶9 hydrocarbons in microporous MOFs MIL-100(Cr) and MIL-101(Cr): A manometric study. 2010 , 134, 134-140	48
1796	Synthesis and structures of CoII, NiII, and CuII coordination frameworks formed by a flexible 1,3-phenylenediacetic acid ligand. 2010 , 976, 168-173	2
1795	Secondary ligand-directed assembly of ZnII and CdII coordination architectures: From 1D to 3D compounds based on pyridine carboxylate ligands. 2010 , 983, 93-98	4
1794	MOF-5 based mixed-linker metalâBrganic frameworks: Synthesis, thermal stability and catalytic application. 2010 , 499, 71-78	133
1793	Metal organic frameworks as heterogeneous catalysts for the selective N-methylation of aromatic primary amines with dimethyl carbonate. 2010 , 378, 19-25	89
1792	Polyoxometalate-based heterogeneous catalysts for liquid phase selective oxidations: Comparison of different strategies. 2010 , 157, 107-113	117
1791	Copper(I) halides: A versatile family in coordination chemistry and crystal engineering. 2010 , 254, 1-18	453
,,,	Copper(I) halides: A versatile family in coordination chemistry and crystal engineering. 2010, 254, 1-18 Present and future synthesis challenges for zeolites. 2010, 156, 236-242	453 89
,,,		
1790	Present and future synthesis challenges for zeolites. 2010 , 156, 236-242 Molecular simulation of propane/propylene separation on the metalâBrganic framework CuBTC.	89
1790 1789	Present and future synthesis challenges for zeolites. 2010 , 156, 236-242 Molecular simulation of propane/propylene separation on the metalâBrganic framework CuBTC. 2010 , 357, 27-34	89 63
1790 1789 1788	Present and future synthesis challenges for zeolites. 2010 , 156, 236-242 Molecular simulation of propane/propylene separation on the metalâBrganic framework CuBTC. 2010 , 357, 27-34 Molecular simulation of hydrogen adsorption in metal-organic frameworks. 2010 , 357, 35-42	89 63 26
1790 1789 1788 1787	Present and future synthesis challenges for zeolites. 2010, 156, 236-242 Molecular simulation of propane/propylene separation on the metalâBrganic framework CuBTC. 2010, 357, 27-34 Molecular simulation of hydrogen adsorption in metal-organic frameworks. 2010, 357, 35-42 Electrocatalytic activity of BasoliteTM F300 metal-organic-framework structures. 2010, 12, 632-635 A bimetallic oxide framework, [{Cu(bpy)}2Mo4O10(O3PCH2C6H4CH2PO3)2], constructed from	89632679
1790 1789 1788 1787 1786	Present and future synthesis challenges for zeolites. 2010, 156, 236-242 Molecular simulation of propane/propylene separation on the metalâBrganic framework CuBTC. 2010, 357, 27-34 Molecular simulation of hydrogen adsorption in metal-organic frameworks. 2010, 357, 35-42 Electrocatalytic activity of BasoliteTM F300 metal-organic-framework structures. 2010, 12, 632-635 A bimetallic oxide framework, [{Cu(bpy)}2Mo4O10(O3PCH2C6H4CH2PO3)2], constructed from novel chains. 2010, 13, 298-301 A lamella 2D silver(I) coordination polymer constructed from in situ generated 2-mercaptobenzoic acid. 2010, 13, 306-309	89 63 26 79

1782	A new 2D 5-connected coordination polymer based on 3,4-bis(pyridin-4-ylmethoxy)benzoic acid ligand. 2010 , 13, 932-934	3
1781	Solvent-controlled assemblies, structures, and properties of two Hg(II) coordination polymers with a multidentate N-donor tecton 3,4-bis(2-pyridyl)-5-(4-pyridyl)-1,2,4-triazole. 2010 , 13, 1195-1198	29
1780	A 2D pillar-layered coordination framework with meso-helix constructed from imidazole-4,5-dicarboxlylate and terephthalate. 2010 , 13, 1439-1444	18
1779	Mechanochemical Synthesis of New Coordination Polymers with Acetylenedicarboxylate as Bridging Ligand . 2010 , 636, 400-404	18
1778	Manipulation of Molecular and Supramolecular Structure in Cobalt(II) Complexes with Tetrachloroterephthalate through the Influence of Different Solvents. 2010 , 636, 1629-1634	4
1777	PbADC and PbADCIH2O: Two Coordination Polymers with Acetylenedicarboxylate (ADC2âIJas Bridging Ligand´. 2010 , 636, 1026-1031	16
1776	Photochromic Hybrid Materials. 2010, 636, 2068-2068	5
1775	Facile synthesis of vanadium metal-organic frameworks and their magnetic properties. 2010 , 6, 1598-602	48
1774	Rapid preparation of flexible porous coordination polymer nanocrystals with accelerated guest adsorption kinetics. 2010 , 2, 410-6	308
1773	Induction of chiral porous solids containing only achiral building blocks. 2010 , 2, 353-61	472
1772	De novo synthesis of a metal-organic framework material featuring ultrahigh surface area and gas storage capacities. 2010 , 2, 944-8	1350
1771	Porous metal-organic-framework nanoscale carriers as a potential platform for drug delivery and imaging. 2010 , 9, 172-8	3109
1770	Surface nano-architecture of a metal-organic framework. 2010 , 9, 565-71	667
1769	Photoactivation of a nanoporous crystal for on-demand guest trapping and conversion. 2010 , 9, 661-6	171
1768	. 2010,	280
1767	Assembly of a Highly-Ordered Nanofilm Comprised of Molecular Frameworks and Surface/Interface Structural Study. 2010 , 52, 295-300	
1766	[Hybrid nanocarriers for controlled delivery of antitumour and retroviral drugs delivery]. 2010, 26, 761-7	1
1765	. 2010,	106

1764	Microwave-Assisted Route Towards Fluorinated Nanomaterials. 2010 , 39-68	2
1763	Unveiling thermal transitions of polymers in subnanometre pores. 2010 , 1, 83	164
1762	Tubular crystals growth for a nanoporous hydrogen-bonded metalâBrganic framework. 2010 , 12, 3496	21
1761	High-connected mesoporous metal-organic framework. 2010 , 46, 7400-2	100
1760	Chemical structure, network topology, and porosity effects on the mechanical properties of Zeolitic Imidazolate Frameworks. 2010 , 107, 9938-43	362
1759	Metal-Organic Framework Materials. 2010 , 1-67	2
1758	RECENT ADVANCES IN THE STUDY OF MESOPOROUS METAL-ORGANIC FRAMEWORKS. 2010 , 31, 165-195	77
1757	The Polyvalent Gold Nanoparticle Conjugate-Materials Synthesis, Biodiagnostics, and Intracellular Gene Regulation. 2010 , 35, 532-539	27
1756	Syntheses and characterization of new nickel coordination polymers with 4,4'-dipyridylsulfide. Dynamic rearrangements of one-dimensional chains responding to external stimuli: temperature variation and guest releases/re-inclusions. 2010 , 11, 2821-38	2
1755	Distance and angular holonomic constraints in molecular simulations. 2010 , 133, 034114	14
1754	Two-dimensional coordination polymer with a non-interpenetrated (4,4) net showing anion exchange and structural transformation in single-crystal-to-single-crystal fashion. 2010 , 49, 5883-9	77
1753	Rational synthesis and characterization of porous Cu(II) coordination polymers. 2010 , 12, 2519-31	37
1752	Metal insertion in a microporous metal-organic framework lined with 2,2'-bipyridine. 2010 , 132, 14382-4	463
1751	Silver(I) 3-D-supramolecular coordination frameworks constructed by the combination of coordination bonds and supramolecular interactions. 2010 , 63, 1038-1051	17
1750	Rational design, synthesis, purification, and activation of metal-organic framework materials. 2010 , 43, 1166-75	1127
1749	Structures and properties of porous coordination polymers based on lanthanide carboxylate building units. 2010 , 49, 10781-7	128
1748	High-throughput aided synthesis of the porous metal-organic framework-type aluminum pyromellitate, MIL-121, with extra carboxylic acid functionalization. 2010 , 49, 9852-62	116
1747	MOF-5 metal-organic framework as sorbent for in-field sampling and preconcentration in combination with thermal desorption GC/MS for determination of atmospheric formaldehyde. 2010 , 82, 1365-70	202

1746	Biodegradable therapeutic MOFs for the delivery of bioactive molecules. 2010 , 46, 4526-8	235
1745	Reactive adsorption of ammonia on Cu-based MOF/graphene composites. 2010 , 26, 15302-9	181
1744	pH-Dependent Binary MetalâlDrganic Compounds Assembled from Different Helical Units: Structural Variation and Supramolecular Isomers. 2010 , 10, 1699-1705	61
1743	1D zigzag chain vs. 1D helical chain: the role of the supramolecular interactions on the formation of chiral architecture. 2010 , 12, 337-340	35
1742	Characterization of Lewis Acid Sites in MetalâDrganic Frameworks Using Density Functional Theory. 2010 , 1, 97-101	45
1741	CO2 and CH4 Separation by Adsorption Using Cu-BTC MetalâDrganic Framework. 2010 , 49, 7497-7503	205
1740	Multiscale simulation and modelling of adsorptive processes for energy gas storage and carbon dioxide capture in porous coordination frameworks. 2010 , 3, 1469	130
1739	Assembly of Two Metalâ©rganic Frameworks with Intrinsic Chiral Topology from Achiral Materials. 2010 , 10, 492-494	69
1738	DABCO-functionalized metal-organic framework bearing a C2h-symmetric terphenyl dicarboxylate linker. 2010 , 39, 5608-10	52
1737	Ionothermal Synthesis of Zeolites and Other Porous Materials. 2010 , 87-105	4
1736	Synthesis of a zinc(II) imidazolium dicarboxylate ligand metal-organic framework (MOF): a potential precursor to MOF-tethered N-heterocyclic carbene compounds. 2010 , 49, 1712-9	77
1735	Synthesis and structural comparisons of five new fluorinated metal organic frameworks (F-MOFs). 2010 , 12, 1600	51
1734	Assembly of robust and porous hydrogen-bonded coordination frameworks: isomorphism, polymorphism, and selective adsorption. 2010 , 49, 10166-73	58
1733	Two cationic metal-organic frameworks based on cadmium and ⊞lkanedisulfonate anions and their photoluminescent properties. 2010 , 39, 11193-200	15
1732	Introduction of cavities up to 4 nm into a hierarchically-assembled metal-organic framework using an angular, tetratopic ligand. 2010 , 46, 5223-5	35
1731	A Highly Hydrophobic Metalâ'Drganic Framework Zn(BDC)(TED)0.5 for Adsorption and Separation of CH3OH/H2O and CO2/CH4: An Integrated Experimental and Simulation Study. 2010 , 114, 6602-6609	90
1730	Family of Isoreticular Chiral MetalâDrganic Frameworks Based on Coordination and Hydrogen Bonds in [M[Co(ethylenediamine)(oxalato)2]2]. 2010 , 10, 1971-1978	18
1729	Metal-organic frameworks as sensors: a ZIF-8 based Fabry-Pfot device as a selective sensor for chemical vapors and gases. 2010 , 132, 7832-3	875

1728	A robust highly interpenetrated metal-organic framework constructed from pentanuclear clusters for selective sorption of gas molecules. 2010 , 49, 8444-8	93
1727	Series of Ag(I) Coordination Complexes Derived from Aminopyrimidyl Ligands and Dicarboxylates: Syntheses, Crystal Structures, and Properties. 2010 , 10, 3699-3709	167
1726	Effect of Dehydration on the Local Structure of Framework Aluminum Atoms in Mixed Linker MIL-53(Al) Materials Studied by Solid-State NMR Spectroscopy. 2010 , 1, 2886-2890	46
1725	Rapid syntheses of a metal-organic framework material Cu3(BTC)2(H2O)3 under microwave: a quantitative analysis of accelerated syntheses. 2010 , 12, 2625-31	73
1724	Molecular Simulation Studies of Separation of CO2/N2, CO2/CH4, and CH4/N2 by ZIFs. 2010 , 114, 8515-8522	231
1723	Molecular Modeling of Adsorption and Diffusion in Metal-Organic Frameworks. 2010 , 313-339	8
1722	Estimation of Framework Charges in Covalent Organic Frameworks Using Connectivity-Based Atom Contribution Method. 2010 , 114, 9945-9951	40
1721	Temperature-dependent supramolecular motif in coordination compounds. 2010 , 49, 5356-8	76
1720	A General Approach for Estimating Framework Charges in MetalâDrganic Frameworks. 2010 , 114, 5035-5042	108
1719	Synthesis, crystal structures, and luminescent properties of two series' of new lanthanide (III) amino-carboxylate-phosphonates. 2010 , 49, 905-15	69
1718	Synthesis and properties of nano zeolitic imidazolate frameworks. 2010 , 46, 4878-80	206
1717	Zeolites and Other Micro- and Mesoporous Molecular Sieves. 2010 , 1	1
1716	Ammonia borane confined by a metal-organic framework for chemical hydrogen storage: enhancing kinetics and eliminating ammonia. 2010 , 132, 1490-1	230
1715	A unique example of a 3D framework based on the binuclear dysprosium(III) azobenzene-3,5,4?-tricarboxylate with 3,6-connected topology showing ferromagnetic properties. 2010 , 12, 3476	25
1714	Syntheses and crystal structures of two cadmium coordination polymers [Cd(2-mBIM)(NCS)(SCN)] n and [Cd2(2-mBIM)2(NO3)2(C4H4O4)(H2O)5] n based on bis(2-methylimidazol-1-yl)methane. 2010 , 63, 2296-2306	9
1713	Honeycomb nanoscale-porous material constructed from copper complexes and mixed-addenda Lindqvist-type polyoxoanions. 2010 , 12, 3522	4
1712	Mechanism for the Dynamic Adsorption of CO2 and CH4 in a Flexible Linear Chain Coordination Polymer as Determined from In Situ Infrared Spectroscopy. 2010 , 114, 2184-2191	34
1711	Modifying MOFs: new chemistry, new materials. 2010 , 1, 32	281

(2010-2010)

1710	A Family of Highly Stable Lanthanide MetalâDrganic Frameworks: Structural Evolution and Catalytic Activity. 2010 , 22, 3316-3322	210
1709	Dense and homogeneous coatings of CPO-27-M type metalâBrganic frameworks on alumina substrates. 2010 , 12, 3768	27
1708	Molecular Simulations and Experimental Studies of CO2, CO, and N2 Adsorption in MetalâDrganic Frameworks. 2010 , 114, 15735-15740	154
1707	Influence of Ligand Geometry on the Dimensionality of Sn(II) Benzenedicarboxylate Crystal Structures. 2010 , 10, 3752-3756	24
1706	Synthesis of isostructural porous metal-benzenedicarboxylates: Effect of metal ions on the kinetics of synthesis. 2010 , 12, 2749	41
1705	Pd nanoparticles embedded into a metal-organic framework: synthesis, structural characteristics, and hydrogen sorption properties. 2010 , 132, 2991-7	290
1704	Highly-selective and reversible O2 binding in Cr3(1,3,5-benzenetricarboxylate)2. 2010, 132, 7856-7	266
1703	An octacobalt cluster based, (3,12)-connected, magnetic, porous coordination polymer. 2010 , 46, 6311-3	112
1702	Flexible porphyrin tetracarboxylic acids for crystal engineering. 2010 , 12, 4095	33
1701	Highly emissive metal-organic framework composites by host-guest chemistry. 2010 , 9, 846-53	52
1700	Two Novel MetalâDrganic Frameworks (MOFs) with (3,6)-Connected Net Topologies: Syntheses, Crystal Structures, Third-Order Nonlinear Optical and Luminescent Properties. 2010 , 10, 2613-2619	134
1699	Adsorption Sites and Binding Nature of CO2 in Prototypical MetalâDrganic Frameworks: A Combined Neutron Diffraction and First-Principles Study. 2010 , 1, 1946-1951	235
1698	Triptycene-Based Polymers of Intrinsic Microporosity: Organic Materials That Can Be Tailored for Gas Adsorption. 2010 , 43, 5287-5294	246
1697	Li-modified metalâBrganic frameworks for CO2/CH4 separation: a route to achieving high adsorption selectivity. 2010 , 20, 706-714	107
1696	Moisture-resistant and superhydrophobic metal-organic frameworks obtained via postsynthetic modification. 2010 , 132, 4560-1	420
1695	Guest-responsive porous magnetic frameworks using polycyanometallates. 2010 , 12, 159-165	44
1694	Homochiral metal-organic frameworks for heterogeneous asymmetric catalysis. 2010 , 132, 14321-3	432
1693	Enhanced selectivity of CO2 from a ternary gas mixture in an interdigitated porous framework. 2010 , 46, 4258-60	101

1692	Zinc(II)-boron(III)-imidazolate framework (ZBIF) with unusual pentagonal channels prepared from deep eutectic solvent. 2010 , 39, 697-9	44
1691	Tuning MOF CO2 adsorption properties via cation exchange. 2010 , 132, 5578-9	501
1690	Hydrogen in the MetalâDrganic Framework Cr MIL-53. 2010 , 114, 10648-10655	43
1689	Short-Range and Long-Range Magnetic Ordering, in Third Generation Brannerite Type InorganicaDrganic Vanadates: [{Mn(Bpy)}(VO3)2]a[H2O)1.16and [{Mn(Bpy)0.5}(VO3)2]a[H2O)0.62. 2010 , 22, 5543-5553	22
1688	Selective Sorption of Organic Molecules by the Flexible Porous Hybrid MetalâDrganic Framework MIL-53(Fe) Controlled by Various HostâDuest Interactions. 2010 , 22, 4237-4245	87
1687	Structure and Topology Versatility of MetalâØrganic Frameworks Based on Tetradentate Ligands Isolated from Hydrothermal Metal/Ligand Reactions. 2010 , 10, 1742-1748	38
1686	Hybrid Monte Carlo Simulations Combined with a Phase Mixture Model to Predict the Structural Transitions of a Porous MetalâDrganic Framework Material upon Adsorption of Guest Molecules. 2010 , 114, 6496-6502	104
1685	External Surface of Zeolite Imidazolate Frameworks Viewed Ab Initio: Multifunctionality at the Organicalhorganic Interface. 2010 , 1, 349-353	67
1684	[B4O9H2] Cyclic Borate Units as the Building Unit in a Family of Zinc Borate Structures. 2010 , 10, 456-464	53
1683	Influence of the synthetic conditions on the structural diversity of extended manganese-oxalato-1,2-bis(4-pyridyl)ethylene systems. 2010 , 49, 11346-61	27
1682	Different Structural Networks Determined by Variation of the Ligand Skeleton in Copper(II) Diphosphinate Coordination Polymers. 2010 , 10, 7-10	38
1681	Highlighting a variety of unusual characteristics of adsorption and diffusion in microporous materials induced by clustering of guest molecules. 2010 , 26, 8450-63	50
1680	Porous coordination polymer with flexibility imparted by coordinatively changeable lithium ions on the pore surface. 2010 , 49, 1158-65	53
1679	Driving the Assembling of Zirconium Tetraoxalate Metallotectons and Benzimidazolium Cations: From Three Dimensional Hydrogen-Bonded Compact Architectures to Open-Frameworks. 2010 , 10, 4906-491	9 ²⁰
1678	Coordination networks from Cu cations and tetrakis(methylthio)benzenedicarboxylic acid: tunable bonding patterns and selective sensing for NH(3) gas. 2010 , 49, 10191-8	17
1677	Metalâ'Drganic Frameworks with Diverse Structures Constructed by Using Capsule-like Ligand and NiII Based on Ionothermal and Hydrothermal Methods. 2010 , 10, 5221-5226	48
1676	From metal-organic squares to porous zeolite-like supramolecular assemblies. 2010 , 132, 18038-41	113
1675	Structural, Spectroscopic, and Magnetic Characterization of the Coordination Polymers [MII(NCS)2(bpe)2][BH2O[2C2H6SO [M = Co, Ni; bpe = 1,2-Bis(4-pyridyl)ethylene]. Two Interpenetrated Porous Networks. 2010 , 10, 4874-4882	14

(2010-2010)

1674	Nitrate under Hydrothermal Conditions: pH Influence, Crystal Structures, and Their Properties. 2010, 10, 76-84	83
1673	Stepwise Synthesis of Charged and Neutral Two-Dimensional Networks via One-Dimensional Silver(I) Coordination Polymer Based on Bis(4-pyridylmethyl)sulfide. 2010 , 10, 4148-4154	28
1672	Structure and magnetic field-induced transition in a one-dimensional hybrid inorganic-organic chain system, Co2(4,4'-bpy)(tfhba)2.4,4'-bpy (4,4'-bpy = 4,4'-bipyridine; tfhba = 2,3,5,6-tetrafluoro-4-hydroxybenzoate). 2010 , 49, 4594-8	15
1671	An Interdigitated Metalloporphyrin Framework: Two-Dimensional Tessellation, Framework Flexibility, and Selective Guest Accommodation. 2010 , 10, 171-176	29
1670	Synthesis, crystal structure, and photoluminescent properties of ternary Cd(II)/triazolate/chloride system. 2010 , 49, 9191-9	43
1669	Cadmium and zinc thiolate and selenolate metal-organic frameworks. 2010 , 39, 5070-3	22
1668	Effects of molecular sieving and electrostatic enhancement in the adsorption of organic compounds on the zeolitic imidazolate framework ZIF-8. 2010 , 26, 15625-33	99
1667	Largest molecular clusters in the supertetrahedral Tn series. 2010 , 132, 10823-31	86
1666	Exploitation of Intrinsic Microporosity in Polymer-Based Materials. 2010 , 43, 5163-5176	669
1665	Mixed azide and 5-(pyrimidyl)tetrazole bridged Co(II)/Mn(II) polymers: synthesis, crystal structures, ferroelectric and magnetic behavior. 2010 , 49, 8583-90	86
1664	Efficient calculation of diffusion limitations in metal organic framework materials: a tool for identifying materials for kinetic separations. 2010 , 132, 7528-39	239
1663	One-dimensional coordination polymers from hexanuclear manganese carboxylate clusters featuring a {Mn(II)4Mn(III)2(mu4-O)2} core and spacer linkers. 2010 , 49, 7764-72	28
1662	Single-Crystal-to-Single-Crystal Structural Transformation in a Three-Dimensional Bimetallic (4fâBd) Supramolecular Porous Framework. 2010 , 10, 2483-2489	25
1661	Supramolecular Coordination Complexes with 5-Sulfoisophthalic Acid and 2,5-Bipyridyl-1,3,4-Oxadiazole: Specific Sensitivity to Acidity for Cd(II) Species. 2010 , 10, 2650-2660	88
1660	Physics Behind the Guest-Assisted Structural Transitions of a Porous MetalâDrganic Framework Material. 2010 , 1, 2810-2815	53
1659	A zirconium methacrylate oxocluster as precursor for the low-temperature synthesis of porous zirconium(IV) dicarboxylates. 2010 , 46, 767-9	199
1658	Oriented growth of the functionalized metal-organic framework CAU-1 on -OH- and -COOH-terminated self-assembled monolayers. 2010 , 12, 4515-20	45
1657	Exceptional thermal stability in a supramolecular organic framework: porosity and gas storage. 2010 , 132, 14457-69	281

1656	Catalysis of transesterification by a nonfunctionalized metal-organic framework: acido-basicity at the external surface of ZIF-8 probed by FTIR and ab initio calculations. 2010 , 132, 12365-77	427
1655	Porous ionic/molecular crystal composed of highly symmetric magnetic clusters. 2010 , 46, 246-8	52
1654	Hierarchically Micro- and Mesoporous Coordination Polymer Nanostructures with High Adsorption Performance. 2010 , 10, 2451-2454	48
1653	Nature of magnetic interactions in 3D $\{[M(II)(pyrazole)4]2[Nb(IV)(CN)8].4H2O\}$ n $(M = Mn, Fe, Co, Ni)$ molecular magnets. 2010 , 49, 7565-76	48
1652	Molecular, electronic, and crystal structures of self-assembled hydrothermally synthesized Zn(II)-mercaptonicotinate: a combined spectroscopic and theoretical approach. 2010 , 49, 4099-108	13
1651	Design and Construction of Coordination Polymers by 4-Amino-3,5-bis(n-pyridyl)-1,2,4-triazole (n = 2, 3, 4) Isomers in a Copper(I) Halide System: Diverse Structures Tuned by Isomeric and Anion Effects. 2010 , 10, 2192-2201	48
1650	Growth of metal-organic frameworks on polymer surfaces. 2010 , 132, 15687-91	133
1649	Isoreticular synthesis and modification of frameworks with the UiO-66 topology. 2010 , 46, 7700-2	584
1648	Adsorption properties in high optical quality nanoZIF-8 thin films with tunable thickness. 2010 , 20, 7676	136
1647	Heme-like coordination chemistry within nanoporous molecular crystals. 2010 , 327, 1627-30	169
1646	Mechanochemical Synthesis of MetalâDrganic Frameworks: A Fast and Facile Approach toward Quantitative Yields and High Specific Surface Areas. 2010 , 22, 5216-5221	363
1645	The role of synchrotron radiation in examining the self-assembly of crystalline nanoporous framework materials: from zeolites and aluminophosphates to metal organic hybrids. <i>Chemical</i> 58.5 <i>Society Reviews</i> , 2010 , 39, 4767-82	36
1644	Characterization of the order-disorder dielectric transition in the hybrid organic-inorganic perovskite-like formate Mn(HCOO)(3)[(CH(3))(2)NH(2)]. 2010 , 49, 1510-6	185
1643	Selective gas adsorption in the flexible metal-organic frameworks Cu(BDTri)L (L=DMF, DEF). 2010 , 16, 5902-8	107
1642	A New Multidentate Hexacarboxylic Acid for the Construction of Porous Metalâ®rganic Frameworks of Diverse Structures and Porosities. 2010 , 10, 2775-2779	47
1641	3-D coordination polymers based on the tetrathiafulvalenetetracarboxylate (TTF-TC) derivative: synthesis, characterization, and oxidation issues. 2010 , 49, 7135-43	85
1640	A Rare Uninodal 9-Connected MetalâØrganic Framework with Permanent Porosity. 2010 , 10, 2372-2375	70
1639	Heterometallic InorganicâDrganic Frameworks of SodiumâBismuth Benzenedicarboxylates. 2010 , 10, 1736-1741	47

1638	Macro-/microporous MOF composite beads. 2010 , 20, 5720	136
1637	Water filling of hydrophilic nanopores. 2010 , 133, 034513	37
1636	Hydrothermal chemistry of vanadium oxides with aromatic di- and tri-phosphonates in the presence of secondary metal copper(II) cationic complex subunits. 2010 , 12, 446-469	46
1635	A metal-organic framework with a covalently prefabricated porous organic linker. 2010 , 132, 12773-5	78
1634	Adsorption and Separation of Xylene Isomers and Ethylbenzene on Two Znâllerephthalate MetalâlDrganic Frameworks. 2010 , 114, 311-316	135
1633	A 3D porous metalâBrganic framework constructed of 1D zigzag and helical chains exhibiting selective anion exchange. 2010 , 12, 1041-1043	53
1632	Pore space partition and charge separation in cage-within-cage indium-organic frameworks with high CO2 uptake. 2010 , 132, 17062-4	315
1631	Multistep N2 breathing in the metal-organic framework co(1,4-benzenedipyrazolate). 2010 , 132, 13782-8	197
1630	First-Principles-Derived Force Field for Copper Paddle-Wheel-Based MetalâDrganic Frameworks. 2010 , 114, 14402-14409	78
1629	Nanoporous molecular crystals. 2010 , 20, 10588	220
1629 1628	Nanoporous molecular crystals. 2010 , 20, 10588 Dynamic changes in dimensional structures of co-complex crystals. 2010 , 49, 9247-52	220
1628	Dynamic changes in dimensional structures of co-complex crystals. 2010 , 49, 9247-52 Construction of Three MetalâDrganic Frameworks Based on Multifunctional T-Shaped Tripodal	31
1628 1627	Dynamic changes in dimensional structures of co-complex crystals. 2010 , 49, 9247-52 Construction of Three MetalâDrganic Frameworks Based on Multifunctional T-Shaped Tripodal Ligands, H3PyImDC. 2010 , 10, 3489-3495 Sorbents for CO(2) capture from flue gasaspects from materials and theoretical chemistry. 2010 ,	31 80
1628 1627 1626	Dynamic changes in dimensional structures of co-complex crystals. 2010 , 49, 9247-52 Construction of Three MetalâDrganic Frameworks Based on Multifunctional T-Shaped Tripodal Ligands, H3PyImDC. 2010 , 10, 3489-3495 Sorbents for CO(2) capture from flue gasaspects from materials and theoretical chemistry. 2010 , 2, 1819-41 A flexible MMOF exhibiting high selectivity for CO(2) over N(2), CH(4) and other small gases. 2010 ,	31 80 202
1628 1627 1626	Dynamic changes in dimensional structures of co-complex crystals. 2010, 49, 9247-52 Construction of Three MetalâDrganic Frameworks Based on Multifunctional T-Shaped Tripodal Ligands, H3PyImDC. 2010, 10, 3489-3495 Sorbents for CO(2) capture from flue gasaspects from materials and theoretical chemistry. 2010, 2, 1819-41 A flexible MMOF exhibiting high selectivity for CO(2) over N(2), CH(4) and other small gases. 2010, 46, 9152-4	31 80 202
1628 1627 1626 1625	Dynamic changes in dimensional structures of co-complex crystals. 2010 , 49, 9247-52 Construction of Three MetalâDrganic Frameworks Based on Multifunctional T-Shaped Tripodal Ligands, H3PyImDC. 2010 , 10, 3489-3495 Sorbents for CO(2) capture from flue gasaspects from materials and theoretical chemistry. 2010 , 2, 1819-41 A flexible MMOF exhibiting high selectivity for CO(2) over N(2), CH(4) and other small gases. 2010 , 46, 9152-4 Tuning functional sites and thermal stability of mixed-linker MOFs based on MIL-53(Al). 2010 , 39, 3795-8 Three new coordination complexes based on 2-methyl-4, 5-imidazoledicarboxylic acid varying from	31 80 202 108

1620	Unique (3,12)-connected porous lanthanide-organic frameworks based on Ln(4)O(4) clusters: synthesis, crystal structures, luminescence, and magnetism. 2010 , 49, 1865-71	106
1619	Unraveling the High Uptake and Selectivity of CO2 in the Zeolitic Imidazolate Frameworks ZIF-68 and ZIF-69. 2010 , 114, 13501-13508	34
1618	Metal inorganic frameworks: dynamic flexible architecture with extended pore order built from [Se(3)](2-) linkers and [Re(6)Se(6)Br(8)](2-) clusters. 2010 , 132, 6728-34	17
1617	Molecular Understanding for the Adsorption of Water and Alcohols in Hydrophilic and Hydrophobic Zeolitic MetalâDrganic Frameworks. 2010 , 114, 11542-11550	99
1616	Density functional theory for adsorption of gas mixtures in metal-organic frameworks. 2010 , 114, 2820-7	56
1615	Syntheses, crystal structures and properties of silver(I) and copper(II) complexes with an oxazoline-containing tetradentate ligand. 2010 , 34, 2436	7
1614	From infinite one-dimensional helix to discrete Cu(II)15 cluster along with in situ S(N)2 ring-cleavage of cis-epoxysuccinic acid: pH-controlled assemblies, crystal structures, and properties. 2010 , 49, 9617-26	68
1613	Influence of [Mo6Br8F6]2- cluster unit inclusion within the mesoporous solid MIL-101 on hydrogen storage performance. 2010 , 26, 11283-90	56
1612	Sorption behavior of an oriented surface-grown MOF-film studied by in situ X-ray diffraction. 2010 , 20, 3046	40
1611	Activation of Ammonia Borane Hybridized with AlkalineâMetal Hydrides: A Low-Temperature and High-Purity Hydrogen Generation Material. 2010 , 114, 14662-14664	29
1610	Gas storage in porous metal-organic frameworks for clean energy applications. 2010 , 46, 44-53	1102
1609	X-ray absorption spectroscopies: useful tools to understand metallorganic frameworks structure and reactivity. <i>Chemical Society Reviews</i> , 2010 , 39, 4885-927	112
1608	Metal-organic framework thin film for enhanced localized surface plasmon resonance gas sensing. 2010 , 82, 8042-6	279
1607	Temperature responsive channel uniformity impacts on highly guest-selective adsorption in a porous coordination polymer. 2010 , 1, 315	82
1606	A polyoxometalate-encapsulated 3D porous metal-organic pseudo-rotaxane framework. 2010 , 46, 5097-9	100
1605	Adsorption of Harmful Organic Vapors by Flexible Hydrophobic Bis-pyrazolate Based MOFs. 2010 , 22, 1664-1672	128
1604	Dipyridyl beta-diketonate complexes: versatile polydentate metalloligands for metal-organic frameworks and hydrogen-bonded networks. 2010 , 46, 5067-9	47
1603	Elucidation of consistent enantioselectivity for a homologous series of chiral compounds in homochiral metal-organic frameworks. 2010 , 12, 6466-73	27

(2010-2010)

1602	A Systematic Investigation of Decomposition of Nano Zn4O(C8H4O4)3 MetalâØrganic Framework. 2010 , 114, 2566-2572	77
1601	Convenient synthesis of Cu3(BTC)2 encapsulated Keggin heteropolyacid nanomaterial for application in catalysis. 2010 , 46, 8186-8	144
1600	Insight into the Development of Metal-Organic Materials (MOMs): At Zeolite-Like Metal-Organic Frameworks (ZMOFs). 2010 , 37-89	8
1599	Surface Pore Engineering of Porous Coordination Polymers. 2010 , 165-192	2
1598	Toward Mechanochemical Synthesis of Metal-Organic Frameworks: From Coordination Polymers and Lattice Inclusion Compounds to Porous Materials. 2010 , 267-299	O
1597	Hybrid polyoxotungstate/MIL-101 materials: synthesis, characterization, and catalysis of H2O2-based alkene epoxidation. 2010 , 49, 2920-30	207
1596	A metal-organic framework with covalently bound organometallic complexes. 2010 , 132, 9262-4	185
1595	Explanation of the adsorption of polar vapors in the highly flexible metal organic framework MIL-53(Cr). 2010 , 132, 9488-98	169
1594	New three-dimensional porous metal organic framework with tetrazole functionalized aromatic carboxylic Acid: synthesis, structure, and gas adsorption properties. 2010 , 49, 11581-6	126
1593	Self and transport diffusivity of CO2 in the metal-organic framework MIL-47(V) explored by quasi-elastic neutron scattering experiments and molecular dynamics simulations. 2010 , 4, 143-52	98
1592	A palladium(II) triangle as building blocks of microporous molecular materials: structures and catalytic performance. 2010 , 46, 746-8	34
1591	Generic postfunctionalization route from amino-derived metal-organic frameworks. 2010 , 132, 4518-9	167
1590	Functionalization of coordination nanochannels for controlling tacticity in radical vinyl polymerization. 2010 , 132, 4917-24	99
1589	Adsorption of light hydrocarbons in the flexible MIL-53(Cr) and rigid MIL-47(V) metal-organic frameworks: a combination of molecular simulations and microcalorimetry/gravimetry measurements. 2010 , 12, 6428-37	76
1588	Molecular tectonics: tubular crystals with controllable channel size and orientation. 2010 , 46, 112-4	24
1587	Databases of virtual inorganic crystal structures and their applications. 2010 , 12, 8521-30	3
1586	A 4-connected anionic metalâBrganic nanotube constructed from indium isophthalate. 2010 , 12, 3385	29
1585	Crystal structure, supramolecular assembly and preliminary reactivity behaviour of new heteropolytopic ligands based on oxalate/malonate skeleton and azolate moieties. 2010 , 12, 1217-1226	2

1584	Molecular tectonics: chaining cages into a 1-D coordination network. 2010 , 12, 67-69	8
1583	Homochiral helical coordination polymers of metallosalen complexes with tunable pitches. 2010 , 12, 2424	15
1582	Hydrogen storage in water-stable metalâBrganic frameworks incorporating 1,3- and 1,4-benzenedipyrazolate. 2010 , 3, 117-123	158
1581	Selective separation of larger molecules from a Lewis-base mixture by flexible one-dimensional Cu(II) coordination polymer with shape-recognizing space. 2010 , 46, 3134-6	21
1580	Solid state interconversion of cages and coordination networks via conformational change of a semi-rigid ligand. 2010 , 46, 5064-6	22
1579	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
1578	Versatile functionalities in MOFs assembled from the same building units: interplay of structural flexibility, rigidity and regularity. 2010 , 20, 1322-1331	66
1577	The role of Bild tacking in stabilizing a,a-trans-cyclohexane-1,4-dicarboxylate in a 2D Co(II) network. 2010 , 12, 1057-1059	29
1576	Water and ethanol desorption in the flexible metal organic frameworks, MIL-53 (Cr, Fe), investigated by complex impedance spectroscopy and density functional theory calculations. 2010 , 12, 12478-85	36
1575	Nanoporous metalâBrganic framework comprising of 1D cobalt oxalate chains and flexible ligands exhibiting both dynamic gas adsorption and antiferromagnetic chain behaviours. 2010 , 12, 2225	18
1574	Separation of gas mixtures using Co(II) carborane-based porous coordination polymers. 2010 , 46, 3478-80	128
1573	The first anionic four-connected boron imidazolate framework. 2010 , 39, 2487-9	15
1572	New mimic of zeolite: heterometallic organic host framework accommodating inorganic cations. 2010 , 46, 3182-4	40
1571	129Xe NMR study of the framework flexibility of the porous hybrid MIL-53(Al). 2010 , 132, 11599-607	96
1570	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
1569	Neutron diffraction study of the magnetic structures of manganese succinate Mn(C4H4O4): A complex inorganic-organic framework. 2010 , 82,	16
1568	Supramolecular structures assembled based on mononuclear 2,6-naphthalenedisulfonate zinc(II) complexes. 2010 , 63, 223-233	15
1567	A new carboxylic chelate ligand and its supramolecular complexes formed with sodium ions and alcohol molecules. 2010 , 22, 163-171	13

1566	Hybrid materials through linkage of chalcogenide tetrahedral clusters. 2010 , 39, 5965-72	60
1565	Spontaneous asymmetrical crystallization of a three-dimensional diamondoid framework material from achiral precursors. 2010 , 46, 1449-51	46
1564	A highly-connected acentric organic-inorganic hybrid material with unique 3D inorganic and 3D organic connectivity. 2010 , 46, 4354-6	55
1563	Solid-liquid interface synthesis of microcrystalline porous coordination networks. 2010 , 46, 6515-7	34
1562	Selective gas adsorption within a five-connected porous metalâBrganic framework. 2010 , 20, 3984	58
1561	Dehydrated Prussian blues for CO2 storage and separation applications. 2010 , 12, 4003	33
1560	Molecular tectonics: formation and structural studies on a 2-D directional coordination network based on a non-centric metacyclophane based tecton and zinc cation. 2010 , 39, 2137-46	13
1559	Remarkable structural diversity and single-crystal-to-single-crystal transformations in sulfone functionalized lanthanide MOFs. 2010 , 12, 1034-1037	34
1558	AlF.1,4-benzenedicarboxylate: synthesis and absorption properties. 2010 , 39, 1722-5	26
1557	A NbO-type metal-organic framework derived from a polyyne-coupled di-isophthalate linker formed in situ. 2010 , 46, 4196-8	126
1556	A new heterogeneous catalyst for epoxidation of alkenes via one-step post-functionalization of IRMOF-3 with a manganese(II) acetylacetonate complex. 2011 , 47, 3637-9	128
1555	Two-step synthesis, structure and adsorption property of a dynamic zinc phosphonocarboxylate framework. 2011 , 13, 3378	30
1554	Engineering MIL-53(Al) flexibility by controlling amino tags. 2011 , 40, 11359-61	41
1553	A 9-connected metalâBrganic framework with gas adsorption properties. 2011 , 21, 15909	29
1552	Effect of anions on architectures of transition metal complexes with 1,4-bis(1,2,4-triazol-1-yl)butane. 2011 , 13, 6665	17
1551	Induction in urothermal synthesis of chiral porous materials from achiral precursors. 2011 , 47, 4950-2	74
1550	An unusual 1D ladder-like silver(I) coordination polymer involving novel 1D -> 3D five-folded interpenetrated and [3 + 2] catenaned features generated by Ag?O interactions. 2011 , 13, 33-35	48
1549	A ligand-conformation driving chiral generation and symmetry-breaking crystallization of a zinc(II) organoarsonate. 2011 , 47, 8862-4	40

1548	A unique 2D -> 3D polycatenation cobalt(II)-based molecule magnet showing coexistence of paramagnetism and canted antiferromagnetism. 2011 , 47, 3766-8	60
1547	Size-controlled synthesis of MIL-101(Cr) nanoparticles with enhanced selectivity for CO2 over N2. 2011 , 13, 6916	110
1546	Diverse structures and adsorption properties of quasi-Werner-type copper(II) complexes with flexible and polar axial bonds. 2011 , 40, 2268-74	23
1545	A tri-layer structure consisting of novel heptacobaltate clusters and single cobalt centers bridged by 5-tert-butyl isophthalate. 2011 , 40, 9731-6	20
1544	Dinuclear silver(I) complexes for the design of metal-ligand networks based on triazolopyrimidines. 2011 , 40, 11845-55	40
1543	Coordination driven axial chirality in a microporous solid assembled from an achiral linker via in situ C-N coupling. 2011 , 47, 11038-40	23
1542	Silver coordination networks and cages based on a semi-rigid bis(isoxazolyl) ligand. 2011 , 40, 5483-93	14
1541	Supramolecular isomers: the first 3-fold interpenetrating 8-connected hex-c3 net and an unusual 4-fold interpenetrating 65.8 net. 2011 , 13, 5296	28
1540	Tuning the porosity of lanthanide MOFs with 2,5-pyrazinedicarboxylate and the first in situ hydrothermal carboxyl transfer. 2011 , 13, 985-991	39
1539	An uranyl citrate coordination polymer with a 3D open-framework involving uranyl cation-cation interactions. 2011 , 40, 2422-4	52
1538	Temperature dependent selective gas sorption of the microporous metal-imidazolate framework [Cu(L)] [H2L = 1,4-di(1H-imidazol-4-yl)benzene]. 2011 , 47, 752-4	157
1537	Two Solvent-Dependent Zinc(II) Supramolecular Isomers: Rare kgd and Lonsdaleite Network Topologies Based on a Tripodal Flexible Ligand. 2011 , 11, 5182-5187	128
1536	Influence of the Eluent in the MIL-53(Al) Selectivity for Xylene Isomers Separation. 2011 , 50, 7688-7695	33
1535	Facile fabrication of photonic MOF films through stepwise deposition on a colloid crystal substrate. 2011 , 47, 10094-6	44
1534	Synthesis, characterization, crystal structure and preliminary reactivity behaviour of new heteropolytopic ligands based on the 1,3,5-triazine spacer and pyrazolyl, tris-pyrazolylmethyl and tris-pyrazolylethoxy bonding fragments. 2011 , 40, 4941-53	8
1533	{Co(HBpe)2}(V4O12): pedal motion induced orderâdisorder P -> C transition and disrupted C -> C2/m displacive transition due to thermal instability. 2011 , 13, 6488	10
1532	Hydrogen bond directed honeycomb-like porous network structure of tris(bipyridyl-glycoluril)cobalt(III) chloride. 2011 , 13, 5289	15
1531	In situ growth of continuous thin metalâbrganic framework film for capacitive humidity sensing. 2011 , 21, 3775	124

(2011-2011)

1530	Two organicâlhorganic hybrid frameworks with unusual inorganic and organic connectivity. 2011 , 13, 2201	22
1529	Multiple phase-transitions upon selective CO2 adsorption in an alkyl ether functionalized metalâBrganic frameworkâĦn in situ X-ray diffraction study. 2011 , 13, 6399	45
1528	Synthesis of catalytically active porous organic polymers from metalloporphyrin building blocks. 2011 , 2, 686	157
1527	Syntheses, structures, and photoluminescence of five silver(I) coordination polymers based on tetrakis(imidazol-1-ylmethyl)methane. 2011 , 13, 5877	56
1526	[WS4Cu3I2]- and [WS4Cu4]2+ secondary building units formed a metal-organic framework: large tubes in a highly interpenetrated system. 2011 , 47, 2919-21	70
1525	Structural variability of Co(II) and Ni(II) entangled metalâBrganic frameworks: effect of N-donor ligands and metal ions. 2011 , 13, 3733	53
1524	Molecular simulation investigation into the performance of Cu-BTC metal-organic frameworks for carbon dioxide-methane separations. 2011 , 13, 20453-60	24
1523	Competition between coordination and hydrogen bonding in networks constructed using dipyridyl-1H-pyrazole ligands. 2011 , 13, 1676-1682	11
1522	Infrared study of the influence of reducible iron(III) metal sites on the adsorption of CO, CO2, propane, propene and propyne in the mesoporous metal-organic framework MIL-100. 2011 , 13, 11748-56	150
1521	Detailed investigations of phase transitions and magnetic structure in Fe(III), Mn(II), Co(II) and Ni(II) 3,4,5-trihydroxybenzoate (gallate) dihydrates by neutron and X-ray diffraction. 2011 , 40, 6401-10	38
1520	pH-Triggered construction of NLO active CMOFs: change in supramolecular assembly, water clusters, helical architectures and their properties. 2011 , 13, 1018-1028	31
1519	Reversible solid-state structural conversion between a three-dimensional network and a one-dimensional chain of Cu(II) triazole coordination polymers in acidic/basic-suspensions or vapors. 2011 , 47, 653-5	21
1518	Small chemical causes drastic structural effects: the case of calcium glutarate. 2011 , 13, 1894-1898	34
1517	A route to functionalised pores in coordination polymers via mixed phosphonate and amino-triazole linkers. 2011 , 23, 278-282	11
1516	Trigonal Rigid Triphenols: Self-Assembly and Multicomponent Lattice Inclusion. 2011 , 11, 3406-3417	10
1515	Syntheses, Structures, and Gas Adsorption Properties of Two Novel CadmiumâBodium Organic Frameworks with 1,3,5-Benzenetricarboxylate Ligands. 2011 , 11, 3529-3535	22
1514	Alkali-Metal-Templated Assemblies of New 3D Lead(II) Tetrachloroterephthalate Coordination Frameworks. 2011 , 11, 4190-4197	54
1513	Molecular tectonics: control of interpenetration in cuboid 3-D coordination networks. 2011 , 13, 776-778	27

1512	Predicting neopentane isosteric enthalpy of adsorption at zero coverage in MCM-41. 2011 , 27, 6738-43	8
1511	Ionothermal synthesis and magnetic studies of novel two-dimensional metal-formate frameworks. 2011 , 50, 2159-67	14
1510	Synthesis and characterization of crystalline structures based on phenylboronate ligands bound to alkaline earth cations. 2011 , 50, 7802-10	34
1509	Direct assembly of new cobalt(III)-lanthanide(III) heterometallic frameworks with NaCl-like topology. 2011 , 13, 2391	9
1508	Computational study of hydrocarbon adsorption in metal-organic framework Ni2(dhtp). 2011 , 115, 2842-9	12
1507	Syntheses, structures, and properties of lead(II) and nickel(II) complexes with 3,5-di(1H-imidazol-1-yl)benzoate. 2011 , 64, 170-178	6
1506	Monitoring the Activation Process of the Giant Pore MIL-100(Al) by Solid State NMR. 2011 , 115, 17934-17944	59
1505	Homochiral, helical supramolecular metal-organic frameworks organized by strong IIIII tacking interactions: single-crystal to single-crystal transformations in closely packed solids. 2011 , 50, 686-704	69
1504	Dramatic structural rearrangements in porous coordination networks. 2011 , 133, 5853-60	76
1503	Syntheses of MetalâDrganic Frameworks and Aluminophosphates under Microwave Heating: Quantitative Analysis of Accelerations. 2011 , 11, 4413-4421	37
1502	Li1.43[FeII4.43FeIII0.57(HPO3)6][il.5H2O: A Phosphite Oxoanion-Based Compound with Lithium Exchange Capability and Spin-Glass Magnetic Behavior. 2011 , 23, 4317-4330	32
1501	Cation Characterization and CO2Capture in Li+-Exchanged MetalâDrganic Frameworks: From First-Principles Modeling to Molecular Simulationâ 2011, 50, 62-68	41
1500	Synthesis and functionalization of heteroatom-bridged bicyclocalixaromatics, large molecular triangular prisms with electron-rich and -deficient aromatic interiors. 2011 , 76, 1804-13	47
1499	Molecular Insight into the Adsorption and Diffusion of Water in the Versatile Hydrophilic/Hydrophobic Flexible MIL-53(Cr) MOF. 2011 , 115, 10764-10776	119
1498	71Ga Slow-CTMAS NMR and Crystal Structures of MOF-Type Gallium Carboxylates with Infinite Edge-Sharing Octahedra Chains (MIL-120 and MIL-124). 2011 , 23, 39-47	47
1497	Toward the self-assembly of metal-organic nanotubes using metal-metal and Estacking interactions: bis(pyridylethynyl) silver(I) metallo-macrocycles and coordination polymers. 2011 , 50, 1123-34	56
1496	Syntheses, Structures, and Structural Transformations of Mixed Na(I) and Zn(II) Metalâ@rganic Frameworks with 1,3,5-Benzenetricarboxylate Ligands. 2011 , 11, 2243-2249	18
1495	Nonlinear Properties in Coordination Copolymers Derived from Randomly Mixed Ligands. 2011 , 11, 2059-2063	³ 45

1494	A dynamic open framework exhibiting guest- and/or temperature-induced bicycle-pedal motion in single-crystal to single-crystal transformation. 2011 , 50, 1889-97	66
1493	Kinetic separation of propene and propane in metal-organic frameworks: controlling diffusion rates in plate-shaped crystals via tuning of pore apertures and crystallite aspect ratios. 2011 , 133, 5228-31	211
1492	Revelation of the molecular assembly of the nanoporous metal organic framework ZIF-8. 2011 , 133, 13304-7	115
1491	Rational construction of 3D pillared metal-organic frameworks: synthesis, structures, and hydrogen adsorption properties. 2011 , 50, 7555-62	104
1490	Capturing Axially Chiral Conformations of 2,2?-bipyridine in [Mn(II)(2,2?-bpy)(HCO2)2â⊠(N3)x] via Spontaneous Resolution. 2011 , 11, 2398-2403	27
1489	A highly porous interpenetrated metal-organic framework from the use of a novel nanosized organic linker. 2011 , 50, 11297-9	32
1488	Metal-organic framework nanofibers via electrospinning. 2011 , 47, 442-4	176
1487	Super flexibility of a 2D Cu-based porous coordination framework on gas adsorption in comparison with a 3D framework of identical composition: framework dimensionality-dependent gas adsorptivities. 2011 , 133, 10512-22	99
1486	Biofuel purification by pervaporation and vapor permeation in metalâBrganic frameworks: a computational study. 2011 , 4, 2107	43
1485	High-pressure in situ 129Xe NMR spectroscopy and computer simulations of breathing transitions in the metal-organic framework Ni2(2,6-ndc)2(dabco) (DUT-8(Ni)). 2011 , 133, 8681-90	99
1484	Ag(I) and Cu(I) [2 [2] Chiral Grids Containing Pyrimidine Ligands with Camphor Moieties. Arene Encapsulation. 2011 , 11, 1766-1776	22
1483	Organoamino Phosphonium Cations as Building Blocks for Hierarchical Supramolecular Assemblies. 2011 , 11, 555-564	15
1482	Manganese(II) Butyrate-Based MOFs: Structures, Thermal and Magnetic Properties. 2011 , 11, 4080-4089	7
1481	Template induced structural isomerism and enhancement of porosity in manganese(II) based metal-organic frameworks (Mn-MOFs). 2011 , 47, 7674-6	64
1480	Pore partition effect on gas sorption properties of an anionic metal-organic framework with exposed Cu2+ coordination sites. 2011 , 47, 10647-9	132
1479	MOF-5: enthalpy of formation and energy landscape of porous materials. 2011 , 133, 9184-7	46
1478	Novel route to size-controlled Fe-MIL-88B-NH2 metal-organic framework nanocrystals. 2011 , 27, 15261-7	170
1477	New microporous metal-organic framework demonstrating unique selectivity for detection of high explosives and aromatic compounds. 2011 , 133, 4153-5	976

1476	Separation and Purification of Gases by MOFs. 2011 , 69-97	4
1475	Intercalation in layered metal-organic frameworks: reversible inclusion of an extended Bystem. 2011 , 133, 8158-61	102
1474	Concluding Remarks. 2011 , 235-251	
1473	Potential Storage Materials. 2011 , 19-59	4
1472	Experimental Considerations. 2011 , 183-234	
1471	Gas detection by structural variations of fluorescent guest molecules in a flexible porous coordination polymer. 2011 , 10, 787-93	351
1470	Solvatochromic behavior of a nanotubular metal-organic framework for sensing small molecules. 2011 , 133, 4172-4	609
1469	Design of Functional MetalâDrganic Frameworks by Post-Synthetic Modification. 2011 , 23-48	7
1468	Research Status of MetalâDrganic Frameworks for On-Board Cryo-Adsorptive Hydrogen Storage Applications. 2011 , 151-169	2
1467	Fluorine-Induced Chiral Coordination Arrays Containing Helical Hydrogen-Bonding Chains of Water or Fluorinated Ligand. 2011 , 11, 5171-5175	32
1466	Biomedical Applications of Metal Organic Frameworks. 2011 , 50, 1799-1812	420
1465	Catalysis by metal-organic frameworks: fundamentals and opportunities. 2011 , 13, 6388-96	331
1464	Novel anticancer polymeric conjugates of activated nucleoside analogues. 2011 , 22, 1983-93	30
1463	Synergistic catalysis of Au@Ag core-shell nanoparticles stabilized on metal-organic framework. 2011 , 133, 1304-6	781
1462	Câ田?弘ynthon repetitivity in coordination compounds, established from single-crystal and powder diffraction. 2011 , 13, 3710	37
1461	Synergistic effects of encapsulated phthalocyanine complexes in MIL-101 for the selective aerobic oxidation of tetralin. 2011 , 47, 1562-4	74
1460	Toward understanding reactive adsorption of ammonia on Cu-MOF/graphite oxide nanocomposites. 2011 , 27, 13043-51	117
1459	Biomedical Applications of MetalâDrganic Frameworks. 2011 , 213-250	15

1458	FT-IR Study of CO2 Adsorption in a Dynamic Copper(II) Benzoateâ P yrazine Host with CO2â©O2 Interactions in the Adsorbed State. 2011 , 115, 1857-1866	41
1457	Porous MetalâDrganic Frameworks as New Drug Carriers. 2011 , 559-573	2
1456	Porous MetalâDrganic Frameworks. 2011 , 1-20	3
1455	Influence of the Organic Ligand Functionalization on the Breathing of the Porous Iron Terephthalate Metal Organic Framework Type Material upon Hydrocarbon Adsorption. 2011 , 115, 18683-1869	9 \$ 4
1454	Solvothermal Synthesis, Structure, and Properties of Metal Organic Framework Isomers Derived from a Partially Fluorinated Link. 2011 , 11, 1215-1222	79
1453	Tuning the topology and functionality of metal-organic frameworks by ligand design. 2011 , 44, 123-33	859
1452	Synthesis, Structure, Photochemical [2 + 2] Cycloaddition, Transformation, and Photocatalytic Studies in a Family of InorganicâDrganic Hybrid Cadmium Thiosulfate Compounds. 2011 , 11, 5741-5749	53
1451	Highly crystalline nanofilm by layering of porphyrin metal-organic framework sheets. 2011 , 133, 5640-3	259
1450	Remarkable adsorptive performance of a metal-organic framework, vanadium-benzenedicarboxylate (MIL-47), for benzothiophene. 2011 , 47, 1306-8	173
1449	Selective incorporation of functional dicarboxylates into zinc metal-organic frameworks. 2011 , 47, 3380-2	51
1448	Two Unprecedented Three-Dimensional PbIIPolymorphs and Structural Diversities Built on a Kinked Flexible Dicarboxylate Building Block. 2011 , 11, 936-940	46
1447	Bimolecular reaction via the successive introduction of two substrates into the crystals of networked molecular cages. 2011 , 133, 19691-3	27
1446	Spontaneous Resolution of a New Thiogermanate Containing Chiral Binuclear Nickel(II) Complexes with Achiral Triethylenetetramine Ligands: A Unique Water-Mediated Supramolecular Hybrid Helix. 2011 , 11, 3318-3322	35
1445	A new approach towards tetrahedral imidazolate frameworks for high and selective CO2 uptake. 2011 , 47, 5828-30	83
1444	Immobilization of MP-11 into a mesoporous metal-organic framework, MP-11@mesoMOF: a new platform for enzymatic catalysis. 2011 , 133, 10382-5	479
1443	Novel Cobalt(II) Coordination Polymers Constructed from 3,3?,4,4?-Oxydiphthalic Acid and N-Donor Ligands: Syntheses, Crystal Structures, and Magnetic Properties. 2011 , 11, 3885-3894	101
1442	Molecular simulations for energy, environmental and pharmaceutical applications of nanoporous materials: from zeolites, metal-organic frameworks to protein crystals. <i>Chemical Society Reviews</i> , 2011, 40, 3599-612	113
1441	Crystallographic studies into the role of exposed rare earth metal ion for guest sorption. 2011 , 13, 5849	17

1440	Process Intensification, 1. Fundamentals and Molecular Level. 2011 ,	4
1439	Porous metal-organic frameworks as platforms for functional applications. 2011 , 47, 3351-70	743
1438	Effect of the guest solvent molecules on preparation of different morphologies of ZnO nanomaterials from the [Zn2(1,4-bdc)2(dabco)] metal-organic framework. 2011 , 64, 3521-3530	28
1437	Direct covalent post-synthetic chemical modification of Cr-MIL-101 using nitrating acid. 2011 , 47, 2838-40	238
1436	Crystal-like microporous hybrid solid nanocast from Cr-MIL-101. 2011 , 47, 10479-81	27
1435	Syntheses, structures and photoluminescent properties of a series of Ag(I) coordination architectures based on 2,4-diamino-6-methyl-1,3,5-triazine and dicarboxylates: from a 0D discrete molecule to a 3D infinite network. 2011 , 13, 6431	55
1434	The novel metalloligand [Fe(bppd)3] (bppd = 1,3-bis(4-pyridyl)-1,3-propanedionate) for the crystal engineering of heterometallic coordination networks with different silver salts. Anionic control of the structures. 2011 , 13, 5891	39
1433	Incorporation of active metal sites in MOFs via in situ generated ligand deficient metal-linker complexes. 2011 , 47, 11882-4	32
1432	Stable polyoxometalate insertion within the mesoporous metal organic framework MIL-100(Fe). 2011 , 21, 1226-1233	216
1431	Lanthanide-based 0D and 2D molecular assemblies with the pyridazine-3,6-dicarboxylate linker. 2011 , 13, 251-258	31
1430	Effect of NH2 and CF3 functionalization on the hydrogen sorption properties of MOFs. 2011 , 40, 4879-81	218
1429	Recent Developments in Crystal Engineering. 2011 , 11, 875-886	165
1428	Hydrogen storage properties and neutron scattering studies of Mg2(dobdc)a metal-organic framework with open Mg2+ adsorption sites. 2011 , 47, 1157-9	153
1427	Chain-like and dinuclear coordination polymers in lanthanide (Nd, Eu) oxochloride complexes with 2,2':6',2''-terpyridine: synthesis, XRD structure and magnetic properties. 2011 , 40, 9136-44	25
1426	Role of solvents in coordination supramolecular systems. 2011 , 47, 5958-72	565
1425	Light-harvesting metal-organic frameworks (MOFs): efficient strut-to-strut energy transfer in bodipy and porphyrin-based MOFs. 2011 , 133, 15858-61	622
1424	Adsorption and Diffusion of Benzene on Chromium-Based Metal Organic Framework MIL-101 Synthesized by Microwave Irradiation. 2011 , 50, 2254-2261	109
1423	Solvent and temperature influence structural variation from nonporous 2D -> 3D parallel polycatenation to 3D microporous metalâBrganic framework. 2011 , 13, 3971	38

1422	A 9,9?-spirobifluorene based MetalâØrganic Framework: synthesis, structure analysis and gas sorption properties. 2011 , 21, 18715	46
1421	Microporous Metalâ�Drganic Framework Based on Supermolecular Building Blocks (SBBs): Structure Analysis and Selective Gas Adsorption Properties. 2011 , 11, 2050-2053	64
1420	Unraveling the Optoelectronic and Photochemical Behavior of Zn4O-Based Metal Organic Frameworks. 2011 , 115, 12487-12493	91
1419	Modeling the effect of structural changes during dynamic separation processes on MOFs. 2011 , 27, 13064-71	52
1418	Oriented Zeolitic Imidazolate Framework-8 Membrane with Sharp H2/C3H8 Molecular Sieve Separation. 2011 , 23, 2262-2269	388
1417	Metal-organic framework membranes fabricated via reactive seeding. 2011 , 47, 737-9	304
1416	Opening the gate: framework flexibility in ZIF-8 explored by experiments and simulations. 2011 , 133, 8900-2	773
1415	Microwave-assisted synthesis of metal-organic frameworks. 2011 , 40, 321-30	349
1414	Series of Porous 3-D Coordination Polymers Based on Iron(III) and Porphyrin Derivatives. 2011 , 23, 4641-4651	66
1413	Investigating the Validity of the Knudsen Prescription for Diffusivities in a Mesoporous Covalent Organic Framework. 2011 , 50, 7083-7087	19
1412	Zeolitic imidazolate framework-8 as a reverse osmosis membrane for water desalination: insight from molecular simulation. 2011 , 134, 134705	153
1411	High proton conduction in a chiral ferromagnetic metal-organic quartz-like framework. 2011 , 133, 15328-31	270
1410	Effects of Unsaturated Metal Sites on Radical Vinyl Polymerization in Coordination Nanochannels. 2011 , 44, 2693-2697	36
1409	Synthesis and structural characterization of three zinc coordination complexes based on 3,5-dimethylpyrazole and carboxylate ligands. 2011 , 64, 1940-1952	12
1408	A time-resolved diffraction study of a window of stability in the synthesis of a copper carboxylate metalâBrganic framework. 2011 , 13, 103-108	113
1407	Three-dimensional pillar-layered copper(II) metal-organic framework with immobilized functional OH groups on pore surfaces for highly selective CO2/CH4 and C2H2/CH4 gas sorption at room temperature. 2011 , 50, 3442-6	111
1406	Guest-specific double- or single-step adsorption in a flexible porous framework based on a mixed-ligand system. 2011 , 50, 400-2	46
1405	Self-assembly of highly crystalline two-dimensional MOF sheets on liquid surfaces. 2011 , 13, 5538	29

1404	METAL-ORGANIC FRAMEWORKS. 2011 , 37-64	1
1403	Syntheses, Structures, Photoluminescence, and Gas Adsorption of Rare EarthâDrganic Frameworks Based on a Flexible Tricarboxylate. 2011 , 11, 5469-5474	41
1402	Hydrogen Storage Materials. 2011 ,	112
1401	Two 3D coordination assemblies with same cluster configuration showing different magnetic behaviors: a ferromagnetic {[W(CN)8Co2(DMF)8][NO3]}n and a paramagnetic {W(CN)8Cu2(py)8}n. 2011 , 13, 517-523	18
1400	Controllable self-assembly of four new metalâBrganic frameworks based on different phosphomolybdate clusters by altering the molar ratio of H3PO4 and Na2MoO4. 2011 , 13, 2479	75
1399	Controllable assembly of four new POM-based supramolecular compounds by altering the POM secondary building units from pseudo-Keggin to classical Keggin. 2011 , 13, 2687	36
1398	Porous anionic, cationic, and neutral metal-carboxylate frameworks constructed from flexible tetrapodal ligands: syntheses, structures, ion-exchanges, and magnetic properties. 2011 , 50, 2264-71	87
1397	Polyoxometalate-Based MetalâDrganic Frameworks Assembled under the Ionothermal Conditions. 2011 , 11, 458-465	121
1396	A microporous hydrogen-bonded organic framework for highly selective C2H2/C2H4 separation at ambient temperature. 2011 , 133, 14570-3	409
1395	Controllable self-assembly of two novel metalâBrganic frameworks based on different tetradentate in situ ligands. 2011 , 13, 649-655	46
1394	The factors affecting on the assembly of Agâ⊞2biim system: size, charge or shape of polyanions?. 2011 , 13, 3832	77
1393	Construction of 1-D 4f and 3d-4f coordination polymers with flexible Schiff base ligands. 2011 , 40, 9795-801	44
1392	Diels-Alder via molecular recognition in a crystalline molecular flask. 2011 , 133, 16806-8	51
1391	Pro-porous coordination polymers of the 1,4-bis((3,5-dimethyl-1H-pyrazol-4-yl)-methyl)benzene ligand with late transition metals. 2011 , 50, 11506-13	28
1390	Tuning the crystal morphology and size of zeolitic imidazolate framework-8 in aqueous solution by surfactants. 2011 , 13, 6937	295
1389	pH-Dependent Ag(I) coordination architectures constructed from 4-cyanopyridine and phthalic acid: from discrete structure to 2D sheet. 2011 , 13, 1591-1601	129
1388	Contra-diffusion synthesis of ZIF-8 films on a polymer substrate. 2011 , 47, 2559-61	261
1387	Metal-organic frameworks based on unprecedented trinuclear and pentanuclear metal-tetrazole clusters as secondary building units. 2011 , 50, 12133-40	56

1386	Spin control in oxamato-based manganese(II)-copper(II) coordination polymers with brick-wall layer architectures. 2011 , 50, 8694-6	32
1385	Pressure-responsive curvature change of a "rigid" geodesic ligand in a (3,24)-connected mesoporous metal-organic framework. 2011 , 50, 10528-30	68
1384	Selective gas sorption in a [2+3] 'propeller' cage crystal. 2011 , 47, 8919-21	56
1383	Controlling Zeolitic Imidazolate Framework Nano- and Microcrystal Formation: Insight into Crystal Growth by Time-Resolved In Situ Static Light Scattering. 2011 , 23, 2130-2141	622
1382	Study of a hydrothermal reaction system of copper, imidazole and polyoxometalates: selective assembly of a 3D porous metalabrganic pseudo-rotaxane framework and encapsulation of polyoxometalate clusters. 2011 , 13, 7079	53
1381	An interpenetrated metal-organic framework and its gas storage behavior: simulation and experiment. 2011 , 50, 11055-63	40
1380	Fluorescent metal-organic framework for selective sensing of nitroaromatic explosives. 2011 , 47, 12137-9	456
1379	A metalloporphyrin functionalized metal-organic framework for selective oxidization of styrene. 2011 , 47, 5521-3	105
1378	Metal-biomolecule frameworks (MBioFs). 2011 , 47, 7287-302	314
1377	Fabrication of isoreticular metal-organic framework coated capillary columns for high-resolution gas chromatographic separation of persistent organic pollutants. 2011 , 83, 5093-100	118
1376	Exploring Network Topologies of Copper Paddle Wheel Based MetalâDrganic Frameworks with a First-Principles Derived Force Field. 2011 , 115, 15133-15139	42
1375	p-Xylene-selective metal-organic frameworks: a case of topology-directed selectivity. 2011 , 133, 18526-9	142
1374	Coordination Polymers with Tetrafluoroterephthalate as Bridging Ligand. 2011 , 11, 5053-5063	37
1373	Luminescent infinite coordination polymer materials from metal-terpyridine ligation. 2011 , 40, 9189-93	22
1372	Anion-tuned sorption and catalytic properties of a soft metalâBrganic solid with polycatenated frameworks. 2011 , 21, 7098	64
1371	Interrupted zeolite LTA and ATN-type boron imidazolate frameworks. 2011 , 133, 11884-7	126
1370	Serine-based homochiral nanoporous frameworks for selective CO2 uptake. 2011 , 50, 11527-31	36
1369	A highly thermally stable ferroelectric metal-organic framework and its thin film with substrate surface nature dependent morphology. 2011 , 133, 12330-3	69

1368	Thioether Side Chains Improve the Stability, Fluorescence, and Metal Uptake of a MetalâDrganic Framework. 2011 , 23, 2940-2947		131
1367	High capacity gas storage by a 4,8-connected metal-organic polyhedral framework. 2011 , 47, 4487-9		203
1366	Single-crystal metal-organic framework arrays. 2011 , 133, 2144-7		94
1365	Mixed-component metalâចrganic frameworks (MC-MOFs): enhancing functionality through solid solution formation and surface modifications. 2011 , 13, 3623		308
1364	A sodalite-type porous metal-organic framework with polyoxometalate templates: adsorption and decomposition of dimethyl methylphosphonate. 2011 , 133, 4178-81		372
1363	A multiunit catalyst with synergistic stability and reactivity: a polyoxometalate-metal organic framework for aerobic decontamination. 2011 , 133, 16839-46		437
1362	Porous Organic Polymers in Catalysis: Opportunities and Challenges. 2011 , 1, 819-835		699
1361	Metal-organic-framework-based tandem molecular sieves as a dual platform for selective microextraction and high-resolution gas chromatographic separation of n-alkanes in complex matrixes. 2011 , 83, 7094-101		249
1360	Underlying nets in three-periodic coordination polymers: topology, taxonomy and prediction from a computer-aided analysis of the Cambridge Structural Database. 2011 , 13, 3947		555
1359	Why hybrid porous solids capture greenhouse gases?. <i>Chemical Society Reviews</i> , 2011 , 40, 550-62	58.5	562
1358	Cluster-based inorganic-organic hybrid materials. <i>Chemical Society Reviews</i> , 2011 , 40, 575-82	58.5	218
1357	Molecular decoding using luminescence from an entangled porous framework. 2011 , 2, 168		634
1356	Applications of advanced hybrid organic-inorganic nanomaterials: from laboratory to market. <i>Chemical Society Reviews</i> , 2011 , 40, 696-753	58.5	1060
1355	From molecules to materials: molecular paddle-wheel synthons of macromolecules, cage compounds and metal-organic frameworks. 2011 , 40, 6834-59		141
1354	Structural Isomerism and Effect of Fluorination on Gas Adsorption in Copper-Tetrazolate Based Metal Organic Frameworks. 2011 , 23, 2908-2916		73
1353	Hydrogen reactivity of palladium nanoparticles coated with mixed monolayers of alkyl thiols and alkyl amines for sensing and catalysis applications. 2011 , 133, 4389-97		98
1352	Anion-induced structures and luminescent properties of chiral lanthanide-organic frameworks assembled by an achiral tripodal ligand. 2011 , 50, 2346-53		54
1351	Hydrogen-bonded inclusion compounds with reversed polarity: anionic metal-complexes and cationic organic linkers. 2011 , 50, 12739-46		8

(2011-2011)

1350	Synthesis, structure of 3D lanthanide (La(III), Pr(III)) nanoporous coordination polymers containing 1D channels as selective luminescent probes of Pb2+, Ca2+ and Cd2+ ions. 2011 , 161, 2230-2240	20
1349	Capture of nerve agents and mustard gas analogues by hydrophobic robust MOF-5 type metal-organic frameworks. 2011 , 133, 11888-91	235
1348	Effect of Different Carboxylates on a Series of Ag(I) Coordination Compounds with Benzoguanamine Ligand. 2011 , 11, 3564-3578	58
1347	Microwave-assisted construction of ferromagnetic coordination polymers of $[W(V)(CN)8]3$ - with $Cu(II)$ -pyrazole synthons. 2011 , 50, 8808-16	16
1346	Strategies for solid-state NMR studies of materials: from diamagnetic to paramagnetic porous solids. 2011 , 111, 530-62	42
1345	Microporous magnets. <i>Chemical Society Reviews</i> , 2011 , 40, 3249-65	471
1344	Incarceration of Nanosized Silica into Porous Coordination Polymers: Preparation, Characterization, and Adsorption Property. 2011 , 23, 1736-1741	25
1343	Evaluating metalâBrganic frameworks for post-combustion carbon dioxide capture via temperature swing adsorption. 2011 , 4, 3030	782
1342	Unprecedented cyclic [Mo6O19]2âdluster and five organicâlhorganic hybrids based on polyoxomolybdates and 4-amino-3,5-bis(pyridyl)-1,2,4-triazole. 2011 , 13, 1687-1692	31
1341	Revisiting the Uranyl-phthalate System: Isolation and Crystal Structures of Two Types of UranylâDrganic Frameworks (UOF). 2011 , 11, 1940-1947	72
1340	Adsorption of ethane, ethylene, propane, and propylene on a magnesium-based metal-organic framework. 2011 , 27, 13554-62	223
1339	Two Azolium Rings Are Better Than One: A Strategy for Controlling Catenation and Morphology in Zn and Cu MetalâDrganic Frameworks. 2011 , 11, 4747-4750	44
1338	Preparation, Characterization, and Postsynthetic Modification of MetalâDrganic Frameworks: Synthetic Experiments for an Undergraduate Laboratory Course in Inorganic Chemistry. 2011 , 88, 92-94	24
1337	Computational screening of metal-organic frameworks for xenon/krypton separation. 2011 , 57, 1759-1766	118
1336	Evolution of the structures and magnetic properties of the manganese dicarboxylates, Mn2(CO2(CH2)nCO2)(OH)2 and Mn4(CO2(CH2)nCO2)3(OH)2. 2011 , 2, 1929	19
1335	Rapid and reversible formation of a crystalline hydrate of a metal-organic framework containing a tube of hydrogen-bonded water. 2011 , 47, 713-5	40
1334	Irreversible transformation of chiral to achiral polymorph of K[Co(HCOO)3]: synthesis, structures, and magnetic properties. 2011 , 40, 4465-73	29
1333	Metal-organic frameworks for efficient enrichment of peptides with simultaneous exclusion of proteins from complex biological samples. 2011 , 47, 4787-9	186

1332	New functionalized flexible Al-MIL-53-X ($X = -Cl$, -Br, -CH3, -NO2, -(OH)2) solids: syntheses, characterization, sorption, and breathing behavior. 2011 , 50, 9518-26	224
1331	Optimisation of the synthesis of MOF nanoparticles made of flexible porous iron fumarate MIL-88A. 2011 , 21, 2220-2227	197
1330	Supramolecular Assembly of Calcium MetalâDrganic Frameworks with Structural Transformations. 2011 , 11, 699-708	84
1329	Two new silver(I) coordination polymers with 4,4?-bipyridine and two perfluoro-毗iketonates. 2011 , 1006, 136-141	10
1328	. 2011,	235
1327	An invitation to molecular magnetism. 2011 , 94, 139-83	11
1326	Octacyanoniobate(IV)-based molecular magnets revealing 3D long-range order. 2011, 303, 012037	O
1325	Polymer Synthesis in Coordination Nanospaces. 2011 , 84, 1169-1177	12
1324	Protecting group and switchable pore-discriminating adsorption properties of a hydrophilic-hydrophobic metal-organic framework. 2011 , 3, 304-10	131
1323	Crystalline molecular flasks. 2011 , 3, 349-58	497
1323 1322	Crystalline molecular flasks. 2011 , 3, 349-58 Metal-organic frameworks: grown into shape. 2011 , 3, 347-8	497
1322		
1322	Metal-organic frameworks: grown into shape. 2011 , 3, 347-8	21
1322	Metal-organic frameworks: grown into shape. 2011 , 3, 347-8 Bottom-up realization of a porous metal-organic nanotubular assembly. 2011 , 10, 291-5 [MII(ADC)2/2(DMF)2(H2O)2]â[I(MII = Mn, Co, Ni, Zn): Four new coordination polymers with	21 162
1322 1321 1320	Metal-organic frameworks: grown into shape. 2011 , 3, 347-8 Bottom-up realization of a porous metal-organic nanotubular assembly. 2011 , 10, 291-5 [MII(ADC)2/2(DMF)2(H2O)2]â[I(MII = Mn, Co, Ni, Zn): Four new coordination polymers with acetylenedicarboxylate (ADC2â[Ias bridging ligand. 2011 , 13, 1096-1101 Synthesis and crystal structure of a new MOF-type indium pyromellitate (MIL-117) with infinite	21 162 16
1322 1321 1320 1319	Metal-organic frameworks: grown into shape. 2011 , 3, 347-8 Bottom-up realization of a porous metal-organic nanotubular assembly. 2011 , 10, 291-5 [MII(ADC)2/2(DMF)2(H2O)2]â[I(MII = Mn, Co, Ni, Zn): Four new coordination polymers with acetylenedicarboxylate (ADC2â[Ias bridging ligand. 2011 , 13, 1096-1101 Synthesis and crystal structure of a new MOF-type indium pyromellitate (MIL-117) with infinite chains of unusual cis connection of octahedra InO4(OH)2. 2011 , 13, 1488-1493 Two novel transition metalâBrganic frameworks based on 1,3,5-benzenetricarboxylate ligand:	211621610
1322 1321 1320 1319	Metal-organic frameworks: grown into shape. 2011, 3, 347-8 Bottom-up realization of a porous metal-organic nanotubular assembly. 2011, 10, 291-5 [MII(ADC)2/2(DMF)2(H2O)2]ā[i](MII = Mn, Co, Ni, Zn): Four new coordination polymers with acetylenedicarboxylate (ADC2ā]ias bridging ligand. 2011, 13, 1096-1101 Synthesis and crystal structure of a new MOF-type indium pyromellitate (MIL-117) with infinite chains of unusual cis connection of octahedra InO4(OH)2. 2011, 13, 1488-1493 Two novel transition metalāBrganic frameworks based on 1,3,5-benzenetricarboxylate ligand: Syntheses, structures and thermal properties. 2011, 1004, 252-256 Thiol-functionalization of metal-organic framework by a facile coordination-based postsynthetic	21162161015

1314	High pressure structural transformation of selected metal organic frameworks â[A theoretical investigation. 2011 , 131, 44-51	8
1313	A novel (3,4,8)-connected 3D topology framework based on [Gd2(bpdc)3(H2O)3] second building units. 2011 , 14, 1669-1672	5
1312	A bimetallic oxide network constructed from oxomolybdoarsonate clusters and copper(II)-tetrapyridylpyrazine building blocks. 2011 , 14, 1745-1748	6
1311	A new manganese(II) terephthalate layer with 6-connected hxl topology and antiferromagnetic property. 2011 , 14, 1975-1977	12
1310	Sulfation of metalâBrganic frameworks: Opportunities for acid catalysis and proton conductivity. 2011 , 281, 177-187	249
1309	Tuning the activity by controlling the wettability of MOF eggshell catalysts: A quantitative structureâEctivity study. 2011 , 284, 207-214	56
1308	Synthesis and crystal structure determination of 0D-, 1D- and 3D-metal compounds of 4-(pyrid-4-yl)-1,2,4-triazole with zinc(II) and cadmium(II). 2011 , 374, 506-513	27
1307	Synthesis and characterization of new oligomeric and polymeric complexes based on the [CuII(bpca)]+ unit [Hbpca = bis(2-pyridylcarbonyl)amine]. 2011 , 376, 538-548	13
1306	Synthesis, characterization, and luminescence properties of magnesium coordination networks using a thiophene-based linker. 2011 , 378, 109-114	15
1305	Interaction of H2 with fragments of MOF-5 and its implications for the design and development of new MOFs: A computational study. 2011 , 36, 10737-10747	15
1304	Synthesis of isostructural metalâBrganic frameworks, CPO-27s, with ultrasound, microwave, and conventional heating: Effect of synthesis methods and metal ions. 2011 , 173, 866-872	74
1303	Effect of temperature on gas adsorption and separation in ZIF-8: A combined experimental and molecular simulation study. 2011 , 66, 6297-6305	122
1302	MIL-101 Supported Polyoxometalates: Synthesis, Characterization, and Catalytic Applications in Selective Liquid-Phase Oxidation. 2011 , 51, 281-289	65
1301	From Small Cucurbituril Complexes to Large Ordered Networks. 2011 , 51, 533-536	10
1300	Polyimine Container Molecules and Nanocapsules. 2011 , 51, 743-768	95
1299	Tuning of gate opening of an elastic layered structure MOF in CO2 sorption with a trace of alcohol molecules. 2011 , 27, 6905-9	49
1298	Influence of the Oxidation State of the Metal Center on the Flexibility and Adsorption Properties of a Porous Metal Organic Framework: MIL-47(V). 2011 , 115, 19828-19840	72
1297	Visualisation and characterisation of voids in crystalline materials. 2011 , 13, 1804-1813	271

1296	MOF thin films: existing and future applications. <i>Chemical Society Reviews</i> , 2011 , 40, 1081-106	58.5	1048
1295	Mechanical properties of hybrid inorganic-organic framework materials: establishing fundamental structure-property relationships. <i>Chemical Society Reviews</i> , 2011 , 40, 1059-80	58.5	533
1294	Layered hydroxide hybrid nanostructures: a route to multifunctionality. <i>Chemical Society Reviews</i> , 2011 , 40, 1031-58	58.5	120
1293	Titanium oxo-clusters: precursors for a Lego-like construction of nanostructured hybrid materials. <i>Chemical Society Reviews</i> , 2011 , 40, 1006-30	58.5	295
1292	Reconciling the discrepancies between crystallographic porosity and guest access as exemplified by Zn-HKUST-1. 2011 , 133, 18257-63		167
1291	Tuning the Metal Binding Energy and Hydrogen Storage in Alkali Metal Decorated MOF-5 Through Boron Doping: A Theoretical Investigation. 2011 , 115, 16984-16991		39
1290	Understanding the preferential adsorption of CO2 over N2 in a flexible metal-organic framework. 2011 , 133, 12849-57		86
1289	Insight into the crystal synthesis, activation and application of ZIF-20. 2011 , 1, 917		43
1288	High thermal and chemical stability in pyrazolate-bridged metalâBrganic frameworks with exposed metal sites. 2011 , 2, 1311		420
1287	Cocrystal controlled solid-state synthesis of a rigid tetracarboxylate ligand that pillars both square grid and Kagomʿlattice layers. 2011 , 13, 3130-3133		29
1286	Electron diffraction and HRTEM imaging of beam-sensitive materials. 2011 , 17, 163-185		28
1285	How linker's modification controls swelling properties of highly flexible iron(III) dicarboxylates MIL-88. 2011 , 133, 17839-47		307
1284	Dynamic microporous indium(III)-4,4'-oxybis(benzoate) framework with high selectivity for the adsorption of CO2 over N2. 2011 , 47, 770-2		85
1283	Syntheses, structural characterization and properties of transition metal complexes of 5,5'-(1,4-phenylene)bis(1H-tetrazole) (H(2)bdt), 5',5''-(1,1'-biphenyl)-4,4'-diylbis(1H-tetrazole) (H(2)dbdt) and 5,5',5''-(1,3,5-phenylene)tris(1H-tetrazole) (H(3)btt). 2011 , 40, 12288-300		39
1282	Solid state coordination chemistry of metal-1,2,4-triazolates and the related metal-4-pyridyltetrazolates. 2011 , 13, 4457		110
1281	Postsynthetic modification of metal-organic frameworksa progress report. <i>Chemical Society Reviews</i> , 2011 , 40, 498-519	58.5	936
1280	A vanadium (VO2+) metal-organic framework: selective vapor adsorption, magnetic properties, and use as a precursor for a polyoxovanadate. 2011 , 50, 5145-52		26
1279	Breathing and twisting: an investigation of framework deformation and guest packing in single crystals of a microporous vanadium benzenedicarboxylate. 2011 , 50, 2028-36		33

(2011-2011)

1278	A mixed ligand route for the construction of tetrahedrally coordinated porous lithium frameworks. 2011 , 40, 8072-4	19
1277	Reversible luminescence switch in a photochromic metal-organic framework. 2011 , 47, 6870-2	154
1276	Silver(I)âglutathione biocoordination polymer hydrogel: effective antibacterial activity and improved cytocompatibility. 2011 , 21, 19214	66
1275	An evaluation of UiO-66 for gas-based applications. 2011 , 6, 3270-80	158
1274	Metal-organic niccolite: synthesis, structures, phase transition, and magnetic properties of [CH3NH2(CH2)2NH2CH3][M2(HCOO)6] (M=divalent Mn, Fe, Co, Ni, Cu and Zn). 2011 , 6, 3084-96	50
1273	Engineering the Environment of a Catalytic MetalâØrganic Framework by Postsynthetic Hydrophobization. 2011 , 3, 675-678	64
1272	Chemistry of SURMOFs: layer-selective installation of functional groups and post-synthetic covalent modification probed by fluorescence microscopy. 2011 , 133, 1734-7	115
1271	Semirigid aromatic sulfone-carboxylate molecule for dynamic coordination networks: multiple substitutions of the ancillary ligands. 2011 , 50, 7142-9	19
1270	Developing high-capacity hydrogen storage materials via quantum simulations. 2011 , 36, 198-204	14
1269	Selective binding of O2 over N2 in a redox-active metal-organic framework with open iron(II) coordination sites. 2011 , 133, 14814-22	404
1268	Two metal-organic frameworks based on a double azolium derivative: post-modification and catalytic activity. 2011 , 47, 11005-7	65
1267	Nucleobase assemblies supported by uranyl cation coordination and other non-covalent interactions. 2011 , 123, 927-935	3
1266	A two-fold interpenetrated flexible bi-pillared-layer framework of Fe(II) with interesting solvent adsorption property. 2011 , 123, 883-890	5
1265	Post-synthesis modification of a metal-organic framework to form metallosalen-containing MOF materials. 2011 , 133, 13252-5	219
1264	Hydrogen-Bonding Networks of Adamantane-Based Bisphenol Molecules: Toward the Preparation of Molecular Crystals with Channels. 2011 , 11, 542-546	30
1263	Disclosing the Complex Structure of UiO-66 Metal Organic Framework: A Synergic Combination of Experiment and Theory. 2011 , 23, 1700-1718	1079
1262	Combinatorial synthesis of metalâBrganic frameworks libraries by click-chemistry. 2011 , 35, 1892	46
1261	Porous metal organic framework nanoparticles to address the challenges related to busulfan encapsulation. 2011 , 6, 1683-95	84

1260	Precise control and consecutive modulation of spin transition temperature using chemical migration in porous coordination polymers. 2011 , 133, 8600-5	167
1259	An amino-modified Zr-terephthalate metal-organic framework as an acid-base catalyst for cross-aldol condensation. 2011 , 47, 1521-3	358
1258	Active-site-accessible, porphyrinic metal-organic framework materials. 2011 , 133, 5652-5	378
1257	Selective surface and near-surface modification of a noncatenated, catalytically active metal-organic framework material based on Mn(salen) struts. 2011 , 50, 3174-6	105
1256	Thermal transformation of a layered multifunctional network into a metal-organic framework based on a polymeric organic linker. 2011 , 133, 15120-38	51
1255	MetalâBrganic frameworks as heterogeneous catalysts for oxidation reactions. 2011 , 1, 856	257
1254	Crystal Engineering of Nanomorphology for Complex Oxide Materials via Thermal Decomposition of MetalâDrganic Frameworks. Case Study of Sodium Tantalate. 2011 , 11, 1238-1243	13
1253	Synthesis and Characterization of an Amino Functionalized MIL-101(Al): Separation and Catalytic Properties. 2011 , 23, 2565-2572	423
1252	Aerobic Oxidation of Styrenes Catalyzed by an Iron Metal Organic Framework. 2011 , 1, 836-840	91
1251	The Structure and Fluorescence Property of a 3D Supramolecular Network [Cd2(2-mBIM)2Cl2(C4H4O4)(H2O)2(H2O)] n. 2011 , 41, 630-634	2
1250	Sodium Trihydrogen-1,4-Benzenediphosphonate: An Extended Coordination Network. 2011 , 41, 1165-1168	11
1249	Synthesis and Crystal Structure of an Expanded Square Grid Metal Organic Material, [Cu(L1)(DMF)]n[(2.64 DMF). 2011 , 41, 1834-1838	1
1248	Interesting Copper(I) Coordination Polymers of Heterocyclic Monothioether Ligand Containing Long S-Hexadecyl Chain: Syntheses, Structures and Properties. 2011 , 21, 143-149	3
1247	A Ladder-like Coordination Polymer [Sr(H2O)4(CuL)2][(CuL)[2.25H2O Constructed From Metallo-Ligand Na[CuL] and Sr(NO3)2: Crystal Structure and ESR Study. 2011 , 21, 165-170	4
1246	Interesting Copper(I) and Mercury(II) 1D Coordination Polymers Based on 3,6-Bis(2-pyridylthio)pyridazine Ligand: Syntheses, Structures and Properties. 2011 , 21, 237-243	4
1245	Syntheses, Structures and Properties of Two Metalâlbdide Polymers Based on a Flexile N-Donor Ligand. 2011 , 21, 718-722	3
1244	Supramolecular Coordination Assemblies Using 2-Aminodiacetic Terephthalic Acid Ligands: K[NiII(Hadta)(H2O)2]IH2O and K[Cu II1.5 (adta)(H2O)1.5]IH2O. 2011 , 21, 655-661	1
1243	Sorption studies of CO2, CH4, N2, CO, O2 and Ar on nanoporous aluminum terephthalate [MIL-53(Al)]. 2011 , 18, 205-210	103

1242	A force field for dynamic Cu-BTC metal-organic framework. 2011 , 17, 227-34	46
1241	Binding energy of gas molecule with two pyrazine molecules as organic linker in metalâBrganic framework: its theoretical evaluation and understanding of determining factors. 2011 , 130, 475-482	9
1240	Adsorptive removal of methyl orange and methylene blue from aqueous solution with a metal-organic framework material, iron terephthalate (MOF-235). 2011 , 185, 507-11	788
1239	Investigating the potential of MgMOF-74 membranes for CO2 capture. 2011 , 377, 249-260	72
1238	Simple synthesis recipes of porous materials. 2011 , 140, 2-8	45
1237	Study of mechanochemical synthesis in the formation of the metalâBrganic framework Cu3(BTC)2 for hydrogen storage. 2011 , 143, 37-45	62
1236	A computational study of the effect of doping metals on CO2/CH4 separation in metalâBrganic frameworks. 2011 , 143, 66-72	20
1235	Molecular mechanism of hydrocarbons binding to the metalâBrganic framework. 2011 , 501, 455-460	10
1234	The construction of a new POMs-based inorganicaBrganic hybrid framework involving in-situ ligand conversion from 1,3-bis(4-pyridyl)propane to isonicotinic acid. 2011 , 370, 203-206	14
1233	Synthesis, structures, and luminescence properties of mixed ligand Cd(II) and Zn(II) coordination compounds mediated by 1,2-bis(4-pyridyl)ethane. 2011 , 370, 411-419	23
1232	Molecular simulation studies of separation of CH4/H2 mixture in metal-organic frameworks with interpenetration and mixed-ligand. 2011 , 66, 3012-3019	26
1231	Hydrothermal synthesis, structure, fluorescence property of a novel 3D metal-organic framework with high thermal stability. 2011 , 54, 1441-1445	6
1230	Recent advance in porous coordination polymers from the viewpoint of crystalline-state transformation. 2011 , 54, 1371-1394	31
1229	Mixed-Addenda Lindqvist-Type Polyoxoanion [V2W4O19]4âESupported Copper Complexes. 2011 , 637, 472-477	9
1228	Synthesis, Characterization, and Photoluminescence Properties of a Planar Copper Triazolate Coordination Polymer with Cyanide as Co-Ligand. 2011 , 637, 502-505	10
1227	Three New cpt-Metal Complexes Displaying 0D, 1D, and 3D Topology Structures. 2011 , 637, 589-595	7
1226	Synthesis, Crystal Structure, and Properties of the 3D Porous Framework [Zn(INAIP)] DMA H2O. 2011 , 637, 1220-1223	5
1225	Thin-film-based nanoarchitectures for soft matter: controlled assemblies into two-dimensional worlds. 2011 , 7, 1288-308	150

1224	Separation of chemical reaction intermediates by metal-organic frameworks. 2011 , 7, 2356-64	40
1223	Guest effect on nanopatterned spin-crossover thin films. 2011 , 7, 3385-91	42
1222	Oriented synthesis of one-dimensional polypyrrole molecule chains in a metal-organic framework. 2011 , 32, 1610-4	30
1221	Self-Assembly at Different Length Scales: Polyphilic Star-Branched Liquid Crystals and Miktoarm Star Copolymers. 2011 , 21, 1296-1323	87
122 0	Synthesis, Characterization, and Ammonia Adsorption Properties of Mesoporous MetalâDrganic Framework (MIL(Fe))âDraphite Oxide Composites: Exploring the Limits of Materials Fabrication. 2011 , 21, 2108-2117	262
1219	The Effect of Methyl Functionalization on Microporous Metal-Organic Frameworks' Capacity and Binding Energy for Carbon Dioxide Adsorption. 2011 , 21, 4754-4762	98
1218	High-Throughput Fabrication of Uniform and Homogenous MOF Coatings. 2011 , 21, 4228-4231	179
1217	Controlled and sustained release of drugs from dendrimer-nanoparticle composite films. 2011 , 23, 2839-42, 2843	34
1216	Cellulose hydrolysis by a new porous coordination polymer decorated with sulfonic acid functional groups. 2011 , 23, 3294-7	258
1215	Fabrication of metal-organic framework-containing silica-colloidal crystals for vapor sensing. 2011 , 23, 4449-52	148
1214	Chiral nanoporous metal-organic frameworks with high porosity as materials for drug delivery. 2011 , 23, 5629-32	331
1213	A Crystalline Catalyst Based on a Porous Metal-Organic Framework and 12-Tungstosilicic Acid: Particle Size Control by Hydrothermal Synthesis for the Formation of Dimethyl Ether. 2011 , 353, 733-742	44
1212	Hydrogen Adsorption on Metal Organic Framework Materials for Storage Applications. 2011 , 245-281	1
1211	Continuous Flow System Using Polymer-Supported Chiral Catalysts. 2011 , 125-156	3
1210	EnthalpyâEntropy Correlation for Hydrogen Adsorption on MOFs: Variable-Temperature FTIR Study of Hydrogen Adsorption on MIL-100(Cr) and MIL-101(Cr). 2011 , 2011, 1703-1708	24
1209	Water Adsorption Characteristics of MIL-101 for Heat-Transformation Applications of MOFs. 2011 , 2011, 471-474	240
1208	1,4-Phenylenediacetate-Based Ln MOFs âlsynthesis, Structures, Luminescence, and Catalytic Activity. 2011 , 2011, 4369-4376	42
1207	Direct Carboxylation of Zincocene Cp*2Zn. 2011 , 2011, 4157-4160	18

1206	[Zn(C3H3N2)(C3H2N2âြM=Nâ[L6H5)], a Mixed-Linker ZIF Containing a Photo[switchable Phenylazo Group. 2011 , 2011, 5378-5383	44
1205	Thermodynamic methods and models to study flexible metal-organic frameworks. 2011 , 12, 247-58	100
1204	Combination of MOFs and zeolites for mixed-matrix membranes. 2011 , 12, 2781-5	196
1203	Oxidische Nanomaterialien: Von der Synthese ber den Mechanismus zur technologischen Innovation. 2011 , 123, 852-889	25
1202	Oberflühenchemie Metall-organischer Gerste an der Flssig-fest-Grenzflühe. 2011 , 123, 184-208	43
1201	A Porous Flexible Homochiral SrSi2 Array of Single-Stranded Helical Nanotubes Exhibiting Single-Crystal-to-Single-Crystal Oxidation Transformation. 2011 , 123, 456-460	13
1200	Eine Salicylbisimin-Kfigverbindung mit großr spezifischer Oberflähe und selektiver CO2/CH4-Adsorption. 2011 , 123, 1078-1083	114
1199	Hybrid Zeolitic Imidazolate Frameworks with Catalytically Active TO4 Building Blocks. 2011 , 123, 470-473	17
1198	Nanoscale Light-Harvesting MetalâDrganic Frameworks. 2011 , 123, 5847-5851	44
1197	Variant Luminescence from an Organicâlhorganic Hybrid Structure with an Isolated 4-Ring Zinc Phosphate Tecton. 2011 , 123, 5431-5434	8
1196	Ab Initio Powder Diffraction Structure Analysis of a Hostâtuest Network: Short Contacts between Tetrathiafulvalene Molecules in a Pore. 2011 , 123, 6229-6232	7
1195	Porße Materialien zur CO2-Abtrennung und -Abscheidung âlEntwicklung und Bewertung. 2011 , 123, 11790-11801	88
1194	Fast Nucleation and Growth of ZIF-8 Nanocrystals Monitored by Time-Resolved In Situ Small-Angle and Wide-Angle X-Ray Scattering. 2011 , 123, 8217-8221	47
1193	Assembly of the First Fullerene-Type Metalâ©rganic Frameworks Using a Planar Five-Fold Coordination Node. 2011 , 123, 8429-8432	8
1192	Confinement of Mobile Histamine in Coordination Nanochannels for Fast Proton Transfer. 2011 , 123, 11910-11913	51
1191	Diphosphorkomplexe als Bausteine zum Design von phosphorhaltigen metallorganisch-organischen Hybridmaterialien. 2011 , 123, 11718-11722	20
1190	An Organophilic Pervaporation Membrane Derived from MetalâDrganic Framework Nanoparticles for Efficient Recovery of Bio-Alcohols. 2011 , 123, 10824-10827	38
1189	Metalâ'Drganic Frameworks with a Three-Dimensional Ordered Macroporous Structure: Dynamic Photonic Materials. 2011 . 123. 12726-12730	29

1188	Oxide nanomaterials: synthetic developments, mechanistic studies, and technological innovations. 2011 , 50, 826-59	301
1187	Surface chemistry of metal-organic frameworks at the liquid-solid interface. 2011 , 50, 176-99	276
1186	A porous flexible homochiral SrSi2 array of single-stranded helical nanotubes exhibiting single-crystal-to-single-crystal oxidation transformation. 2011 , 50, 436-40	61
1185	A salicylbisimine cage compound with high surface area and selective CO2/CH4 adsorption. 2011 , 50, 1046-51	330
1184	Hybrid zeolitic imidazolate frameworks with catalytically active TO4 building blocks. 2011, 50, 450-3	320
1183	Nanoscale light-harvesting metal-organic frameworks. 2011 , 50, 5729-33	125
1182	Variant luminescence from an organic-inorganic hybrid structure with an isolated 4-ring zinc phosphate tecton. 2011 , 50, 5319-22	39
1181	Ab initio powder diffraction structure analysis of a host-guest network: short contacts between tetrathiafulvalene molecules in a pore. 2011 , 50, 6105-8	31
1180	Development and evaluation of porous materials for carbon dioxide separation and capture. 2011 , 50, 11586-96	907
1179	Fast nucleation and growth of ZIF-8 nanocrystals monitored by time-resolved in situ small-angle and wide-angle X-ray scattering. 2011 , 50, 8067-71	159
1178	Assembly of the first fullerene-type metal-organic frameworks using a planar five-fold coordination node. 2011 , 50, 8279-82	24
1177	Confinement of mobile histamine in coordination nanochannels for fast proton transfer. 2011 , 50, 11706-9	211
1176	Diphosphorus complexes as building blocks for the design of phosphorus-containing organometallic-organic hybrid materials. 2011 , 50, 11516-9	40
1175	An organophilic pervaporation membrane derived from metal-organic framework nanoparticles for efficient recovery of bio-alcohols. 2011 , 50, 10636-9	276
1174	Metal-organic frameworks with a three-dimensional ordered macroporous structure: dynamic photonic materials. 2011 , 50, 12518-22	171
1173	Synthesis, characterisation and cytotoxicity of polyoxometalate/carboxymethyl chitosan nanocomposites. 2011 , 17, 4619-25	56
1172	Three-dimensional open-frameworks based on Ln(III) ions and open-/closed-shell PTM ligands: synthesis, structure, luminescence, and magnetic properties. 2011 , 17, 3644-56	43
1171	Heterometallic coordination polymer gels based on a rigid, bifunctional ligand. 2011 , 17, 2369-72	25

1170	Cobalt imidazolate framework as precursor for oxygen reduction reaction electrocatalysts. 2011 , 17, 2063-7	342
1169	Probing the dynamics of CO2 and CH4 within the porous zirconium terephthalate UiO-66(Zr): a synergic combination of neutron scattering measurements and molecular simulations. 2011 , 17, 8882-9	118
1168	Uptake of liquid alcohols by the flexible Fe(III) metal-organic framework MIL-53 observed by time-resolved in situ X-ray diffraction. 2011 , 17, 7069-79	38
1167	Selective CO2 adsorption by a triazacyclononane-bridged microporous metal-organic framework. 2011 , 17, 6689-95	37
1166	Relationship between channel and sorption properties in coordination polymers with interdigitated structures. 2011 , 17, 5138-44	71
1165	Nanoconfinement and catalytic dehydrogenation of ammonia borane by magnesium-metal-organic-framework-74. 2011 , 17, 6043-7	8o
1164	Chemical and thermal stability of isotypic metal-organic frameworks: effect of metal ions. 2011 , 17, 6437-42	214
1163	High-performance separation of fullerenes on metal-organic framework MIL-101(Cr). 2011 , 17, 11734-7	104
1162	Flexible metal-organic framework with hydrophobic pores. 2011 , 17, 13653-6	46
1161	A new 3D fluorescent lanthanide-organic framework containing helical chains and zigzag layers from mixed carboxylate ligands. 2011 , 14, 68-71	13
1160	Tetrameric entity resulting from two distinct dinuclear uranyl-centered motifs bridged through Q-OH and pyridazine-3,6-dicarboxylate. 2011 , 14, 429-432	24
1159	Recent advances in CdII coordination polymers: Structural aspects, adaptable assemblies, and potential applications. 2011 , 14, 502-513	50
1158	An unusual 3D pillared-layer cobalt(II) coordination polymer containing helical motifs and novel topology constructed from mixed ligands. 2011 , 14, 805-808	5
1157	Synthesis and characterization of porous Al(III) metal-organic framework nanoparticles as a new precursor for preparation of Al2O3 Nanoparticles. 2011 , 14, 645-648	29
1156	A magnesiumâllthium heterometallic coordination network. 2011 , 14, 741-744	8
1155	Synthesis, structure and properties of microporous metalâBrganic frameworks constructed from Ni(II)/Cd(II), Tpt and H4bpta. 2011 , 14, 1082-1085	18
1154	Heteropolyacid encapsulated in Cu3(BTC)2 nanocrystals: An effective esterification catalyst. 2011 , 171, 275-280	73
1153	Carbon dioxide capture-related gas adsorption and separation in metal-organic frameworks. 2011 , 255, 1791-1823	1614

1152	Towards rapid computational screening of metal-organic frameworks for carbon dioxide capture: Calculation of framework charges via charge equilibration. 2011 , 171, 775-781	111
1151	Facile synthesis of nano-sized metal-organic frameworks, chromium-benzenedicarboxylate, MIL-101. 2011 , 166, 1152-1157	124
1150	Flue gas treatment via CO2 adsorption. 2011 , 171, 760-774	398
1149	Preparation of POSS-based organicâlhorganic hybrid mesoporous materials networks through Schiff base chemistry. 2011 , 47, 853-860	38
1148	Effectiveness of metalâBrganic frameworks for removal of refractory organo-sulfur compound present in liquid fuels. 2011 , 90, 190-197	118
1147	The effect of reaction conditions on the nature of cadmium 1,3,5-benzenetricarboxylate metalâBrganic frameworks. 2011 , 366, 303-309	16
1146	From 1D homoleptic to 2D heteroleptic pillared coordination polymers containing oxonato bridges. 2011 , 371, 79-87	6
1145	Hydrocarbon adsorption in the isostructural metal organic frameworks MIL-53(Cr) and MIL-47(V). 2011 , 140, 114-119	32
1144	Enhancement of CO2/CH4 selectivity in metal-organic frameworks containing lithium cations. 2011 , 141, 231-235	117
1143	Hydrogen storage properties of two pillared-layer Ni(II) metal-organic frameworks. 2011 , 142, 208-213	39
1142	Solvent effect on the synthesis of MIL-96(Cr) and MIL-100(Cr). 2011, 142, 489-493	56
1141	Supramolecular architectures in the co-crystals involving carboxylic acids and 1,2-bis(4-pyridyl)ethane, an extended bipyridyl type ligand. 2011 , 990, 281-289	23
1140	Synthesis, structure and photoluminescence of two cadmium coordination polymers with 1,3-benzenedicarboxylate and two flexible bis-imidazole ligands. 2011 , 992, 111-116	22
1139	Two Ag(I) coordination polymers derived from melamine and dicarboxylates: Syntheses, crystal structures and thermal stabilities. 2011 , 1000, 85-91	13
1138	Synthesis, crystal structures and characterization of four coordination polymers based on 5-amino-2,4,6-triiodoisophthalic acid. 2011 , 184, 1263-1272	6
1137	Rare configuration of tautomeric benzimidazolecarboxylate ligands in cadmium(II) and copper(II) coordination polymers. 2011 , 184, 1740-1748	10
1136	Porous zinc(II) frameworks with 5-(isonicotinamido)isophthalate: Syntheses, structures and properties. 2011 , 139, 25-30	28
1135	Reverse shape selectivity in the adsorption of hexane and xylene isomers in MOF UiO-66. 2011 , 139, 67-73	220

1134	Quantification of trimesic acid in liver, spleen and urine by high-performance liquid chromatography coupled to a photodiode-array detection. 2011 , 879, 2311-4	8
1133	Adsorption of CO2 and CH4 on a magnesium-based metal organic framework. 2011 , 353, 549-56	357
1132	Kinetic separation of carbon dioxide and methane on a copper metal-organic framework. 2011 , 357, 504-9	89
1131	Adsorption of pyridine onto the metal organic framework MIL-101. 2011 , 361, 612-7	29
1130	Kinetics and mechanism of the heterogeneous catalyzed oxidative decolorization of Acid-Blue 92 using bimetallic metal-organic frameworks. 2011 , 79, 1969-75	34
1129	On justification of Cu(II) environment in mononuclear complexes: Joint X-ray and AIM studies. 2011 , 30, 1710-1717	4
1128	62 Porphyrin-Based Tectons in Molecular Tectonics. 2011 , 299-390	4
1127	Molecular simulations of confined liquids: an alternative to the grand canonical Monte Carlo simulations. 2011 , 134, 074104	37
1126	Polymers with Inherent Microporosity. 2011 , 1-29	2
1125	Molecular simulation of CO2, N2 and CH4 adsorption and separation in ZIF-78 and ZIF-79. 2011 , 37, 1131-1142	23
1124	Structures and photoluminescence of zinc(II) coordination polymers based on in situ generated 1H-tetrazolate-5-propionic acid ligands. 2011 , 13, 6386	49
1123	Poly[Eaqua-(4)-terephthalato-strontium]. 2011 , 67, m282	6
1122	Highly-ordered Porous Coordination Polymer Nanofilms Grown by Layer-by-Layer Deposition Technique. 2011 , 1312, 1	0
1121	Bis(EZ-phenyl-quinoline-4-carboxyl-ato)bis-[aqua-(1,10-phenanthroline)(2-phenyl-quinoline-4-carboxyl-ato)mar dihydrate. 2011 , 67, m1464-5	nganese(4
1120	Exceptions to the rule: new hydrogen-bonded networks from an old reliable. 2011 , 13, 753-758	10
1119	Structure determination of a novel metal-organic compound synthesized from aluminum and 2,5-pyridinedicarboxylic acid. 2011 , 26, S44-S46	1
1118	Assembly of two coordination polymers [Cu(BIM)(suc)] n and [Cd(BIM)(ox)(H2O)] n constructed from bis(imidazol-1-yl)methane. 2011 , 64, 600-609	6
1117	Molecular Sieves: Aluminophosphates. 2011 ,	1

1116	Selective Liquid Phase Adsorption and Separation of ortho-Xylene with the Microporous MIL-53(Al). 2011 , 46, 1995-2003	32
1115	Mononuclear manganese and tetranuclear copper compounds and their supramolecular networks constructed from hexafluoroglutaric acid and 2,2?-bipyridine. 2011 , 64, 1375-1384	9
1114	Synthesis, Crystal Structure and Properties of a Cobalt(II) Coordination Polymer with Cyclohexane-1,2,3,4,5,6-hexacarboxylic Acid. 2011 , 66, 689-694	
1113	Coordination Polymers and Metal Organic Frameworks Derived from 1,2,4-Triazole Amino Acid Linkers. 2011 , 3, 1750-1775	51
1112	Solid-State NMR Spectroscopy of MetalâDrganic Framework Compounds (MOFs). 2012 , 5, 2537-2572	117
1111	The societal significance of catalysis and the growing practical importance of single-site heterogeneous catalysts. 2012 , 468, 1884-1903	58
1110	Synthesis, structures, and properties of lead(II) and cobalt(II) metal-organic frameworks based on a flexible benzophenone-2,4?-dicarboxylic acid (H2bpdc). 2012 , 65, 2893-2902	5
1109	Exceptionally low shear modulus in a prototypical imidazole-based metal-organic framework. 2012 , 108, 095502	176
1108	A lead(II) coordination polymer containing 2-carboxycinnamic acid and 1,10-phenanthroline and its 3-D supramolecular network. 2012 , 65, 1592-1599	2
1107	Syntheses and crystal structures of four new fpa-metal complexes through in situ ligand reaction. 2012 , 65, 4375-4388	2
1106	The structure of cubic MOF [{Ca(H2O)6}{CaGd(oxydiacetate)3}2].4H2O. A comparison between structural models obtained from Rietveld refinement of conventional and synchrotron X-ray powder diffraction data and standard refinement of single-crystal X-ray diffraction data. 2012 , 27, 232-242	5
1105	Non-covalent surface modification of metal-macrocycle framework with mono-substituted benzenes. 2012 , 24, 867-877	18
1104	Zeolitic imidazolate framework-7 as an ultra-selective nanofilter for H2 purification: atomistic simulation study. 2012 , 38, 830-837	3
1103	Syntheses, Structures and Photoluminescent Properties of Two New Pb(II) and Cd(II) Coordination Polymers Constructed from 1,10-Phenanthroline-derived and 1,4-Naphthalenedicarboxylate Ligands. 2012 , 67, 23-28	
1102	Microporous lanthanide metal-organic frameworks. 2012 , 32, 81-100	92
1101	catena-Poly[(triaqua-zinc)-Efuran-2,5-dicarboxyl-ato-(B)O(2):O(2),O(2')]. 2012 , 68, m500	3
1100	CO2 Adsorption of Metal Organic Framework Material Cu-BTC via Different Preparation Routes. 2012 , 244-251	1
1099	catena-Poly[[triaquacopper(II)]-(2)-furan-2,5-dicarboxyl-ato-(4)O(1),O(2):O(2),O(2')]. 2012 , 68, m445	4

1098	catena-Poly[(aqua-dimethano-lzinc)-Efuran-2,5-dicarboxyl-ato-(B)O(2):O(2),O(2')]. 2012, 68, m595	0
1097	Surface Chemistry of Porous Coordination Polymers (PCPs) or Metal-Organic Frameworks (MOFs). 2012 , 33, 519-523	2
1096	Ten years of electron microscopy of nanomaterials in St. Andrews. 2012 , 9, 69	
1095	Collective Interactions of Molecules with an Interfacial Solid. 2012 , 41, 466-475	28
1094	Formation of Nanocrystals of a Zinc Pillared-layer Porous Coordination Polymer Using Microwave-assisted Coordination Modulation. 2012 , 41, 1436-1438	12
1093	Size-controlled Synthesis of Zeolitic Imidazolate Framework-8 (ZIF-8) Crystals in an Aqueous System at Room Temperature. 2012 , 41, 1337-1339	108
1092	Synthesis and Adsorption Properties of Azulene-containing Porous Interdigitated Framework. 2012 , 41, 425-426	9
1091	Synthesis, Crystal Structures, and Properties of a Series of Coordination Polymers Employing R4-Terephthalate (R = H, F, Cl, Br) and 4,4?-Bipyridine as Bridging Ligands. 2012 , 85, 1102-1111	3
1090	Metal-Containing Polymers. 2012 ,	О
1089	Tuning the magnetic properties of transition metal MOFs by metalâbxygen condensation control: the relation between synthesis temperature, SBU nuclearity and carboxylate geometry. 2012 , 14, 5493	13
1088	Structure-Directing Effect of Organic Cations in the Assembly of Anionic In(III)/Diazinedicarboxylate Architectures. 2012 , 12, 1501-1512	29
1087	Microwave-assisted crystallization inclusion of spiropyran molecules in indium trimesate films with antidromic reversible photochromism. 2012 , 22, 25019	60
1086	A templating guest sorts out a molecular triangle from a dimer-trimer constitutional dynamic library. 2012 , 48, 3115-7	26
1085	Thermodynamics of Pore Filling Metal Clusters in Metal Organic Frameworks: Pd in UiO-66. 2012 , 3, 3702-6	25
1084	Cluster-Organic Framework Materials as Heterogeneous Catalysts for High Efficient Addition Reaction of Diethylzinc to Aromatic Aldehydes. 2012 , 24, 4711-4716	111
1083	Hybrid nanosheets of an inorganic-organic framework material: facile synthesis, structure, and elastic properties. 2012 , 6, 615-21	145
1082	White light emission and second harmonic generation from secondary group participation (SGP) in a coordination network. 2012 , 134, 1553-9	130
1081	Ordered Mesoporous Materials as Catalysts. 2012 , 55, 127-239	31

1080	Highly oriented surface-growth and covalent dye labeling of mesoporous metal-organic frameworks. 2012 , 41, 3899-901	26
1079	Autonomous motors of a metal-organic framework powered by reorganization of self-assembled peptides at interfaces. 2012 , 11, 1081-5	169
1078	Lanthanide metal-organic frameworks: searching for efficient solvent-free catalysts. 2012 , 51, 11349-55	93
1077	Structures, Luminescence, and Magnetic Properties of Several Three-Dimensional LanthanideâDrganic Frameworks Comprising 4-Carboxyphenoxy Acetic Acid. 2012 , 12, 5203-5210	48
1076	Molecular braids in metal-organic frameworks. <i>Chemical Society Reviews</i> , 2012 , 41, 6992-7000 58.5	154
1075	Amino substituted Cu3(btc)2: a new metal-organic framework with a versatile functionality. 2012 , 48, 11196-8	54
1074	MIL-100(Al, Fe) as water adsorbents for heat transformation purposesâl promising application. 2012 , 22, 10148-10151	282
1073	A flexible Cd2+ metal organic framework with a unique (3,3,6)-connected topology, unprecedented secondary building units and single crystal to single crystal solvent exchange properties. 2012 , 14, 8368	24
1072	Fine-tuning the balance between crystallization and gelation and enhancement of CO2 uptake on functionalized calcium based MOFs and metallogels. 2012 , 22, 14951	68
1071	Lanthanide coordination polymers with tetrafluoroterephthalate as a bridging ligand: thermal and optical properties. 2012 , 51, 4679-88	63
1070	Transition metal-containing macromolecules: En route to new functional materials. 2012 , 53, 4879-4921	102
1069	Unusual Zn5(B-OH)2(COOâ¶B secondary building units for the construction of a metalâBrganic framework. 2012 , 25, 92-95	2
1068	Computer-assisted screening of ordered crystalline nanoporous adsorbents for separation of alkane isomers. 2012 , 51, 11867-71	81
1067	Organic reactivity of alcohols in superheated aqueous salt solutions: an overview. 2012 , 36, 1568	10
1066	Giant metal-organic frameworks with bulky scaffolds: from microporous to mesoporous functional materials. 2012 , 41, 5437-53	38
1065	Synthesis, Structure, and Crystallization Study of a Layered Lithium Thiophene-Dicarboxylate. 2012 , 12, 1531-1537	37
1064	Luminescent microporous metal-metallosalen frameworks with the primitive cubic net. 2012 , 41, 3928-32	13
1063	Dynamic magnetic materials based on the cationic coordination polymer [Cu(btix)2]n(2n+) [btix = 1,4-bis(triazol-1-ylmethyl)benzene]: tuning the structural and magnetic properties through anion exchange. 2012 , 51, 12938-47	22

1062	Charge Transfer and Exciplex Emissions from a Naphthalenediimide-Entangled Coordination Framework Accommodating Various Aromatic Guests. 2012 , 116, 26084-26090	50
1061	In situ fabrication of metal-organic hybrid gels in a capillary for online enrichment of trace analytes in aqueous samples. 2012 , 48, 3966-8	42
1060	Electronic structures of one-dimensional metal-molecule hybrid chains studied using scanning tunneling microscopy and density functional theory. 2012 , 14, 7304-8	47
1059	Influence of sterically non-hindering methyl groups on adsorption properties of two classical zinc and copper MOF types. 2012 , 15, 866-877	14
1058	Prediction of Structure and Properties of Boron-Based Covalent Organic Frameworks by a First-Principles Derived Force Field. 2012 , 116, 4921-4929	43
1057	Structures and magnetic properties of Mn and Co inorganicâBrganic frameworks with mixed linear dicarboxylate ligands. 2012 , 14, 2711	20
1056	Fast detection of water and organic molecules by a change of color in an iron(II) microporous spin-crossover coordination polymer. 2012 , 51, 13078-80	21
1055	A new series of chiral metal formate frameworks of $[HONH3][M(II)(HCOO)3]$ (M = Mn, Co, Ni, Zn, and Mg): synthesis, structures, and properties. 2012 , 51, 13363-72	70
1054	Iron and 1,3,5-Benzenetricarboxylic MetalâDrganic Coordination Polymers Prepared by Solvothermal Method and Their Application in Efficient As(V) Removal from Aqueous Solutions. 2012 , 116, 8601-8607	224
1053	Heteropolyacid encapsulation into the MOF: influence of acid particles distribution on ethanol conversion in hybrid nanomaterials. 2012 , 41, 12624-9	19
1052	"Click" post-synthetic modification of metal-organic frameworks with chiral functional adduct for heterogeneous asymmetric catalysis. 2012 , 41, 3072-7	60
1051	Two Zn(II) metal-organic frameworks with coordinatively unsaturated metal sites: structures, adsorption, and catalysis. 2012 , 7, 2796-804	93
1050	Amine-Functionalized MIL-53 MetalâDrganic Framework in Polyimide Mixed Matrix Membranes for CO2/CH4 Separation. 2012 , 51, 6895-6906	164
1049	CO2 adsorption in mono-, di- and trivalent cation-exchanged metal-organic frameworks: a molecular simulation study. 2012 , 28, 3903-10	36
1048	Understanding the Effect of Trace Amount of Water on CO2 Capture in Natural Gas Upgrading in Metalâ®rganic Frameworks: A Molecular Simulation Study. 2012 , 51, 10031-10038	60
1047	Layered inorganic-organic frameworks based on the 2,2-dimethylsuccinate ligand: structural diversity and its effect on nanosheet exfoliation and magnetic properties. 2012 , 41, 8585-93	46
1046	Modulated Formation of MOF-5 Nanoparticlesâ∆ SANS Analysis. 2012 , 116, 6127-6135	29
1045	Spectroscopic Evidence for the Structure Directing Role of the Solvent in the Synthesis of Two Iron Carboxylates. 2012 , 124, 12658-12662	3

1044	Computer-Assisted Screening of Ordered Crystalline Nanoporous Adsorbents for Separation of Alkane Isomers. 2012 , 124, 12037-12041	13
1043	Spectroscopic evidence for the structure directing role of the solvent in the synthesis of two iron carboxylates. 2012 , 51, 12490-4	25
1042	Ruthenium complexation in an aluminium metal-organic framework and its application in alcohol oxidation catalysis. 2012 , 18, 15337-44	96
1041	Crystal growth mechanisms and morphological control of the prototypical metal-organic framework MOF-5 revealed by atomic force microscopy. 2012 , 18, 15406-15	62
1040	Trypsin-Immobilized MetalâØrganic Framework as a Biocatalyst In Proteomics Analysis. 2012 , 77, 982-986	124
1039	Hybridization in Materials Science âlEvolution, Current State, and Future Aspirations. 2012 , 2012, 5097-5105	73
1038	Heteronuclear Cu(II)âMn(II)âLu(II) Complex Constructed from Metallo-Ligand Through Carboxylate Oxygens: Coexistence of Water Hexamers. 2012 , 22, 1200-1205	1
1037	Synthesis, Crystal Structure and Properties of a New 3D Supramolecular MetalâDrganic Framework with Stable Tunnels. 2012 , 22, 1263-1270	10
1036	One-pot synthesis of nitroalkenes via the Henry reaction over amino-functionalized MIL-101 catalysts. 2012 , 29, 101-104	30
1035	Supramolecular organotin(IV) framework derived from pyridine-2,6-bis(thiocarboxylate) ligand. 2012 , 24, 144-147	6
1034	Synthesis, crystal structures, and luminescent properties of Cd(II) coordination polymers assembled from semi-rigid multi-dentate N-containing ligand. 2012 , 196, 87-92	7
1033	Synthesis, structure and luminescence property of 2D lanthanide complexes with 3-fluorophthalate and oxalate. 2012 , 196, 40-44	5
1032	Degradation of sulfur mustard and 2-chloroethyl ethyl sulfide on Cuâ B TC metal organic framework. 2012 , 162, 207-212	50
1031	Structural similarities in 1D coordination polymers of alkaline earth diphosphinates. 2012 , 391, 150-157	4
1030	Coordination Polymers. 2012 ,	2
1029	Gas Storage and Separation in Supramolecular Materials. 2012 ,	
1028	Elastic relaxation behavior, magnetoelastic coupling, and order-disorder processes in multiferroic metal-organic frameworks. 2012 , 86,	65
1027	X-ray structural studies of Prussian blue analog heterostructures on poly(ethylene terephthalate) supports. 2012 , 526, 34-40	1

1026	Window effect on CO2/N2 selectivity in metal organic framework materials. 2012 , 552, 136-140	4
1025	Development of a force field for zeolitic imidazolate framework-8 with structural flexibility. 2012 , 136, 244703	55
1024	Deliberate design of a neutral heterometallic organic framework containing a record 25-fold interpenetrating diamondoid network. 2012 , 14, 6359	41
1023	Self-assembly, metal binding ability, and magnetic properties of dinickel(II) and dicobalt(II) triple mesocates. 2012 , 14, 5639	12
1022	Sononanoengineered magnesiumâ p olypyrrole hybrid capsules with synergetic trigger release. 2012 , 22, 13841	25
1021	A facile route for preparing a mesoporous palladium coordination polymer as a recyclable heterogeneous catalyst. 2012 , 41, 4692-8	22
1020	Assembly between various molecular-building-blocks for network diversity of zincâ¶,3,5-benzenetricarboxylate frameworks. 2012 , 14, 8684	12
1019	Design and construction of coordination polymers based on 2,2'-dinitro-4,4'-biphenyldicarboxylate and semi-rigid N-donor ligands: diverse structures and magnetic properties. 2012 , 41, 2677-84	29
1018	A novel 1D independent metalâBrganic nanotube based on cyclotriveratrylene ligand. 2012 , 14, 112-115	28
1017	Sequential growth in solution of NiFe Prussian blue coordination network nanolayers on Si(100) surfaces. 2012 , 41, 1582-90	14
1016	A homochiral network constructed by supramolecular packing of 2D chiral bilayer: synthesis, structure and property of metal(II) complex based on achiral 3,3?,4,4?-oxydiphthalate and coligand. 2012 , 14, 5862	11
1015	Lithium cubane clusters as tetrahedral, square planar, and linear nodes for supramolecular assemblies. 2012 , 41, 3902-5	13
1014	Syntheses, crystal structures and luminescent properties of Zn(II)/Cd(II) supramolecular complexes incorporating 4-sulfinobenzoate and its in situ oxidized ligand. 2012 , 14, 3501	13
1013	Synthesis of isoreticular CAU-1 compounds: effects of linker and heating methods on the kinetics of the synthesis. 2012 , 14, 505-511	33
1012	Guest-induced expanding and shrinking porous modulation based on interdigitated metalaBrganic frameworks constructed by 4,4?-sulfonyldibenzoate and barium ions. 2012 , 14, 2849	33
1011	Control of the alkali cation alignment in Prussian blue framework. 2012 , 41, 7620-3	18
1010	In situ formation of new organic ligands to construct two novel self-charge-transfer Pb(II)-based frameworks. 2012 , 14, 75-78	22
1009	A microporous indium-organic framework with high capacity and selectivity for CO2 or organosulfurs. 2012 , 41, 2873-6	20

1008	Magnesium aminoethyl phosphonate (Mg(AEP)(H2O)): an inorganic-organic hybrid nanomaterial with high CO2:N2 sorption selectivity. 2012 , 48, 7046-8	9
1007	Novel electrorheological properties of a metal-organic framework Cu3(BTC)2. 2012 , 48, 5635-7	17
1006	A porous metal-organic framework (MOF) with unusual 2D->3D polycatenation based on honeycomb layers. 2012 , 41, 1928-30	54
1005	Peptide-based solids: porosity and zeolitic behavior. 2012 , 22, 1709-1723	46
1004	Co4(OH)2(C10H16O4)3 metal-organic framework: slow magnetic relaxation in the ordered phase of magnetic chains. 2012 , 51, 2885-92	38
1003	Temperature-induced chiral Ag(I) coordination polymers with structural variation from 1D to 2D: synthesis, luminescence and SHG response. 2012 , 14, 7502	18
1002	Microwave synthesis and gas sorption of calcium and strontium metalâBrganic frameworks with high thermal stability. 2012 , 14, 1219	59
1001	Open diamondoid amino-functionalized MOFs for CO2 capture. 2012 , 48, 4842-4	71
1000	Temperature-/solvent-dependent low-dimensional compounds based on quinoline-2,3-dicarboxylic acid: structures and fluorescent properties. 2012 , 41, 11898-906	28
999	Facile fabrication and adsorption property of a nano/microporous coordination polymer with controllable size and morphology. 2012 , 48, 8814-6	102
999		102
	controllable size and morphology. 2012 , 48, 8814-6 Two temperature-controlled chiral Ag(I) coordination polymers with dual chiral components:	
998	controllable size and morphology. 2012, 48, 8814-6 Two temperature-controlled chiral Ag(I) coordination polymers with dual chiral components: synthesis, luminescence and SHG properties. 2012, 14, 4437 Syntheses, crystal structures and photoluminescent properties of silver(I) and cadmium(II)	26
998 997	Controllable size and morphology. 2012, 48, 8814-6 Two temperature-controlled chiral Ag(I) coordination polymers with dual chiral components: synthesis, luminescence and SHG properties. 2012, 14, 4437 Syntheses, crystal structures and photoluminescent properties of silver(I) and cadmium(II) coordination polymers constructed from flexible hexadentate di-Schiff base ligands. 2012, 2, 10189 Redox mediation enabled by immobilised centres in the pores of a metal-organic framework grown	26
998 997 996	Two temperature-controlled chiral Ag(I) coordination polymers with dual chiral components: synthesis, luminescence and SHG properties. 2012, 14, 4437 Syntheses, crystal structures and photoluminescent properties of silver(I) and cadmium(II) coordination polymers constructed from flexible hexadentate di-Schiff base ligands. 2012, 2, 10189 Redox mediation enabled by immobilised centres in the pores of a metal-organic framework grown by liquid phase epitaxy. 2012, 48, 663-5 Exploring Ag?HâB interactions in coordination polymers: silverâElkanedinitrile networks with cobalt	26 7 80
998 997 996 995	Two temperature-controlled chiral Ag(l) coordination polymers with dual chiral components: synthesis, luminescence and SHG properties. 2012, 14, 4437 Syntheses, crystal structures and photoluminescent properties of silver(l) and cadmium(ll) coordination polymers constructed from flexible hexadentate di-Schiff base ligands. 2012, 2, 10189 Redox mediation enabled by immobilised centres in the pores of a metal-organic framework grown by liquid phase epitaxy. 2012, 48, 663-5 Exploring Ag?HâB interactions in coordination polymers: silverâBlkanedinitrile networks with cobalt carbaborane anions. 2012, 14, 3367 Temperature and auxiliary ligand-controlled supramolecular assembly in a series of Zn(ll)-organic	26 7 80
998997996995994	Two temperature-controlled chiral Ag(I) coordination polymers with dual chiral components: synthesis, luminescence and SHG properties. 2012, 14, 4437 Syntheses, crystal structures and photoluminescent properties of silver(I) and cadmium(II) coordination polymers constructed from flexible hexadentate di-Schiff base ligands. 2012, 2, 10189 Redox mediation enabled by immobilised centres in the pores of a metal-organic framework grown by liquid phase epitaxy. 2012, 48, 663-5 Exploring Ag?HâB interactions in coordination polymers: silverâBlkanedinitrile networks with cobalt carbaborane anions. 2012, 14, 3367 Temperature and auxiliary ligand-controlled supramolecular assembly in a series of Zn(II)-organic frameworks: syntheses, structures and properties. 2012, 14, 590-600 Metamagnetic behavior and moisture-absorption induced reversible network assembly of a	26 7 80 12 64

990	Uniform porous nanospheres of discrete shape-persistent organic cage compounds. 2012 , 22, 7113	30
989	The cosolvent-dependent assembly of a family of three blue fluorescent lead(II)-coordination polymers with 5-amino-2,4,6-tribromoisophthalic acid. 2012 , 14, 2926	22
988	Ligand effects on the dimensionality of oxamato-bridged mixed-metal open-framework magnets. 2012 , 48, 3539-41	15
987	Influence of ligand field stabilization energy on the elastic properties of multiferroic MOFs with the perovskite architecture. 2012 , 41, 3949-52	69
986	Photochemical cycloaddition on the pore surface of a porous coordination polymer impacts the sorption behavior. 2012 , 48, 7919-21	64
985	CAU-3: a new family of porous MOFs with a novel Al-based brick: [Al2(OCH3)4(O2C-X-CO2)] (X = aryl). 2012 , 41, 4164-71	64
984	Structural diversity and properties of coordination polymers built from a semi-rigid tetradentenate carboxylic acid. 2012 , 14, 824-831	21
983	Metal-assisted salphen organic frameworks (MaSOFs) with high surface areas and narrow pore-size distribution. 2012 , 48, 130-2	42
982	Zinc-1,4-benzenedicarboxylate-bipyridine frameworks âllinker functionalization impacts network topology during solvothermal synthesis. 2012 , 22, 909-918	40
981	Influence of the alkaline earth cations on the topology of MII/CuII mixed-metalâBrganic frameworks (M = Ca, Sr and Ba). 2012 , 14, 761-764	16
980	Three novel organosilver(I) coordination networks constructed from diallylmelamine and polycarboxylates incorporating silver-vinyl bonding. 2012 , 41, 2289-95	8
979	Microporous zinc tris[(4-carboxyl)phenylduryl]amine framework with an unusual topological net for gas storage and separation. 2012 , 51, 1995-7	56
978	Metal-macrocycle framework (MMF): supramolecular nano-channel surfaces with shape sorting capability. 2012 , 134, 2461-4	51
977	Urothermal synthesis and distinct thermal behavior of isostructural transition metal-based MIL-53 analogs. 2012 , 14, 1263-1266	8
976	Dirhodium paddlewheel with functionalized carboxylate bridges: new building block for self-assembly and immobilization on solid support. 2012 , 51, 4855-61	27
975	Liquid-Phase Adsorption and Separation of Xylene Isomers by the Flexible Porous MetalâDrganic Framework MIL-53(Fe). 2012 , 24, 2781-2791	136
974	Supramolecular Interactions. 2012,	1
973	Insights into the Self-Assembly Mechanism of the Modular Polyoxometalate å K eggin-NetålFamily of Framework Materials and Their Electronic Properties. 2012 , 12, 902-908	15

972	Ligand-assisted enhancement of CO2 capture in metal-organic frameworks. 2012, 134, 6714-9	82
971	Heterobimetallic MOFs containing tetrathiocyanometallate building blocks: pressure-induced spin crossover in the porous {Fe(II)(pz)[Pd(II)(SCN)4]} 3D coordination polymer. 2012 , 51, 11126-32	17
970	Effects of the alkali-metal cation size on molecular and extended structures: formation of coordination polymers and hybrid materials in the homologous series [(4-Et-C6H4OM)[(diox)n], M = Li, Na, K, Rb, Cs. 2012 , 51, 1020-7	10
969	Quantum Sieving in MetalâDrganic Frameworks: A Computational Study. 2012 , 51, 434-442	29
968	Effect of Counteranions in Self-Assembled Silver(I)-Coordination Polymers of 4-Aminobenzonitrile. 2012 , 12, 854-861	13
967	Calculation and visualization of free energy barriers for several VOCs and TNT in HKUST-1. 2012 , 14, 15438-44	13
966	Mn(II) coordination polymers based on bi-, tri-, and tetranuclear and polymeric chain building units: crystal structures and magnetic properties. 2012 , 51, 9431-42	173
965	Structural diversity in coordination self-assembled networks of a multimodal ligand azacalix[4]pyrazine. 2012 , 51, 3860-7	33
964	Comparative Guest, Thermal, and Mechanical Breathing of the Porous Metal Organic Framework MIL-53(Cr): A Computational Exploration Supported by Experiments. 2012 , 116, 13289-13295	78
963	Probing the Dynamics of the Porous Zr Terephthalate UiO-66 Framework Using 2H NMR and Neutron Scattering. 2012 , 116, 12131-12136	79
962	Water-free neodymium 2,6-naphthalenedicarboxylates coordination complexes and their application as catalysts for isoprene polymerization. 2012 , 51, 483-90	33
961	Flexible and dynamic thermal behavior of self-catenated [{Ni3(H2O)3(Bpa)4}(V6O18)][BH2O constructed from 10-c heterometallic inorganic-organic clusters. 2012 , 51, 2130-9	22
960	Oxozinc carboxylate complexes: a new synthetic approach and the carboxylate ligand effect on the noncovalent-interactions-driven self-assembly. 2012 , 51, 7410-4	31
959	Isomer-directed structural diversity and its effect on the nanosheet exfoliation and magnetic properties of 2,3-dimethylsuccinate hybrid frameworks. 2012 , 51, 11198-209	44
958	Supramolecular Polymers with [Co(en)3]3+Cores (en = ethylenediamine). 2012 , 12, 5402-5410	4
957	Apparent Colossal Dielectric Constants in Nanoporous Metal Organic Frameworks. 2012 , 116, 13026-13032	26
956	Gas Adsorption Mechanism and Kinetics of an Elastic Layer-Structured MetalâDrganic Framework. 2012 , 116, 4157-4162	36
955	Adsorption-induced structural transition of an interpenetrated porous coordination polymer: detailed exploration of free energy profiles. 2012 , 28, 5093-100	24

(2012-2012)

(954	Co3+-Based Building Blocks with Appended Phenol and Catechol Groups: Examples of Placing Hydrogen-Bond Donors and Acceptors in a Single Molecule. 2012 , 12, 1308-1319	48
(953	Toward understanding the influence of ethylbenzene in p-xylene selectivity of the porous titanium amino terephthalate MIL-125(Ti): adsorption equilibrium and separation of xylene isomers. 2012 , 28, 3494-502	48
(952	Role of Temperature on Framework Dimensionality: Supramolecular Isomers of Zn3(RCOO)8 Based Metal Organic Frameworks. 2012 , 12, 572-576	74
٥	951	Evaluation of isostructural metal-organic frameworks coated capillary columns for the gas chromatographic separation of alkane isomers. 2012 , 99, 944-50	42
9	950	Metal-organic framework materials with ultrahigh surface areas: is the sky the limit?. 2012 , 134, 15016-21	1210
9	949	In situ synthesis of Cu-BTC (HKUST-1) in macro-/mesoporous silica monoliths for continuous flow catalysis. 2012 , 48, 4749-51	141
(948	Self-assembled one dimensional functionalized metal-organic nanotubes (MONTs) for proton conduction. 2012 , 48, 5464-6	128
٥	947	Influence of ligand substituent on structural assembly and coordination geometry. 2012, 14, 7236	26
٥	946	CAF@ZIF-8: one-step encapsulation of caffeine in MOF. 2012 , 4, 5016-21	255
٥	945	Comparison of Porous Iron Trimesates Basolite F300 and MIL-100(Fe) As Heterogeneous Catalysts for Lewis Acid and Oxidation Reactions: Roles of Structural Defects and Stability. 2012 , 2, 2060-2065	167
9	944	Tuning MOF stability and porosity via adding rigid pillars. 2012 , 51, 9649-54	69
٥	943	Chiral assembly of dodecahedral cavities into porous metal-organic frameworks. 2012 , 48, 9424-6	36
٥	942	Deep eutectic solvents: syntheses, properties and applications. <i>Chemical Society Reviews</i> , 2012 , 41, 71085865	2679
9	941	Guest selectivity of a porous tetrahedral imidazolate framework material during self-assembly. 2012 , 22, 19732	16
٥	940	Step-by-step fabrication of a highly oriented crystalline three-dimensional pillared-layer-type metal-organic framework thin film confirmed by synchrotron X-ray diffraction. 2012 , 134, 9605-8	127
()	939	Control of framework interpenetration for in situ modified hydroxyl functionalised IRMOFs. 2012 , 48, 10328-30	61
(938	Photoactive chiral metal-organic frameworks for light-driven asymmetric ⊞lkylation of aldehydes. 2012 , 134, 14991-9	373
٥	937	Coordination Polymers of Copper and Zinc Ions with a Linear Linker Having Imidazole at Each End and an Azo Moiety in the Middle: Pedal Motion, Gas Adsorption, and Emission Studies. 2012 , 12, 5025-5034	46

936	Progress in adsorption-based CO2 capture by metal-organic frameworks. <i>Chemical Society Reviews</i> , 2012 , 41, 2308-22	58.5	1080
935	High performance metal-organic-framework coatings obtained via thermal gradient synthesis. 2012 , 48, 9708-10		42
934	Three new coordination frameworks based on 2-ethyl-imidazole-4,5-dicarboxylate and 1,10-phenanthroline: syntheses, crystal structures, and luminescence. 2012 , 65, 3653-3664		14
933	Iron(III) metalâটrganic frameworks as solid Lewis acids for the isomerization of 母inene oxide. 2012 , 2, 324-330		164
932	Sonocrystallization of zeolitic imidazolate frameworks (ZIF-7, ZIF-8, ZIF-11 and ZIF-20). 2012 , 14, 3103		114
931	Rapid determination of the optical and redox properties of a metal-organic framework via in situ solid state spectroelectrochemistry. 2012 , 48, 3945-7		95
930	Analogous porous metalâBrganic frameworks: synthesis, stability and application in adsorption. 2012 , 14, 7099		160
929	Recent advances of fluorous chemistry in material sciences. 2012 , 48, 11382-91		52
928	Modification of the Mg/DOBDC MOF with Amines to Enhance CO2 Adsorption from Ultradilute Gases. 2012 , 3, 1136-41		221
927	Systematic investigation into the influence of base and substituents on the coordination chemistry of MnIII and MnIII/II salicylate complexes. 2012 , 24, 533-546		2
926	Impact of Alkyl-Functionalized BTC on Properties of Copper-Based MetalâDrganic Frameworks. 2012 , 12, 3709-3713		59
925	Assembly of Two 3D Porous MetalâDrganic Frameworks Based on 1,2,3-Triazole-4,5-dicarboxylate Exhibiting Novel Coordination Modes. 2012 , 12, 5456-5461		28
924	Framework solids based on copper(II) halides (Cl/Br) and methylene-bridged bis(1-hydroxybenzotriazole): synthesis, crystal structures, magneto-structural correlation, and density functional theory (DFT) studies. 2012 , 51, 10148-57		29
923	Tuning Cobalt Coordination Architectures by Bis(1,2,4-triazol-1-ylmethyl)benzene Position Isomers and 5-Nitroisophthalate. 2012 , 12, 3992-3997		70
922	Facile "modular assembly" for fast construction of a highly oriented crystalline MOF nanofilm. 2012 , 134, 16524-7		233
921	Commercial metal-organic frameworks as heterogeneous catalysts. 2012 , 48, 11275-88		344
920	Synthesis of snowflake-like multi-layered ZnO with controllable pore sizes and its photocatalytic property. 2012 , 258, 3604-3610		11
919	Synthesis and properties of a few 1-D cobaltous fumarates. 2012 , 192, 93-101		21

(2012-2012)

918	Homochiral coordination polymers constructed from aminocarboxylate derivates: Effect of bipyridine on the amidation reaction. 2012 , 192, 255-262	10
917	Bench-scale preparation of Cu3(BTC)2 by ethanol reflux: Synthesis optimization and adsorption/catalytic applications. 2012 , 161, 48-55	61
916	Unusual pressure-temperature dependency in the capillary liquid chromatographic separation of C8 alkylaromatics on the MIL-53(Al) metalâBrganic framework. 2012 , 162, 1-5	24
915	Rapid and efficient crystallization of MIL-53(Fe) by ultrasound and microwave irradiation. 2012 , 162, 36-43	111
914	Novel application of HKUST-1 metalâBrganic framework as antifungal: Biological tests and physicochemical characterizations. 2012 , 162, 60-63	52
913	Two three-dimensional cadmium supramolecular architectures containing extensive hydrogen-bonding networks based on CdSO4 and bis-imidazole ligands. 2012 , 1027, 150-155	1
912	Metal-directed assembly of metal(II) benzoates (M=Mn, Ni, Co, Cu, Zn, and Cd) with 1,2-bis(4-pyridyl)ethene: Light- and photo-induced [2+2] cycloaddition. 2012 , 22, 1-5	13
911	A rare homochiral lanthanium(III)-camphorate coordination polymer with 4-connected sql topology. 2012 , 22, 26-28	9
910	A chiral qtz-type metalâBrganic framework based on 4-coordinate Cd(II) centers. 2012 , 23, 95-97	4
909	On the effect of thermal treatment and hydrogen vibrational dynamics in sodium alanates: An inelastic neutron scattering study. 2012 , 523, 108-113	8
908	New insight into mesoporous silica for nano metal-organic framework. 2012 , 384, 110-5	26
907	Quantification of tetramethyl-terephthalic acid in rat liver, spleen and urine matrices by liquid-liquid phase extraction and HPLC-photodiode array detection. 2012 , 67-68, 98-103	4
906	Insights from theoretical calculations on structure, dynamics, phase behavior and hydrogen sorption in nanoporous metal organic frameworks. 2012 , 987, 42-56	13
905	Au nanoparticles supported on Cr-based metal-organic framework as bimetallic catalyst for selective oxidation of cyclohexane to cyclohexanone and cyclohexanol. 2012 , 27, 200-205	74
904	The past, present and future of heterogeneous catalysis. 2012 , 189, 2-27	256
903	HKUST-1 MOF: A matrix to synthesize CuO and CuOâlleO2 nanoparticle catalysts for CO oxidation. 2012 , 195-196, 180-187	89
902	H2 storage in isostructural UiO-67 and UiO-66 MOFs. 2012 , 14, 1614-26	339
901	Luminescent MTN-type cluster-organic framework with 2.6 nm cages. 2012 , 134, 17881-4	220

900	Metal organic frameworks for electrochemical applications. 2012 , 5, 9269	668
899	Metal [Zn(II), Cd(II)], 1,10-Phenanthroline Containing Coordination Polymers Constructed on the Skeleton of Polycarboxylates: Synthesis, Characterization, Microstructural, and CO2 Gas Adsorption Studies. 2012 , 12, 5311-5319	37
898	Gate adsorption of CO2 on a flexible one-dimensional copper-based coordination polymer crystal. 2012 , 48, 11316-8	29
897	Highly selective chemical sensing in a luminescent nanoporous magnet. 2012 , 24, 5625-9	121
896	Terminating marine methane bubbles by superhydrophobic sponges. 2012 , 24, 5884-9	95
895	Porous organic cage compounds as highly potent affinity materials for sensing by quartz crystal microbalances. 2012 , 24, 6049-52	166
894	A Series of Isoreticular, Highly Stable, Porous Zirconium Oxide Based MetalâDrganic Frameworks. 2012 , 124, 9401-9405	83
893	A series of isoreticular, highly stable, porous zirconium oxide based metal-organic frameworks. 2012 , 51, 9267-71	366
892	Discovering the active sites for C3 separation in MIL-100(Fe) by using operando IR spectroscopy. 2012 , 18, 11959-67	77
891	On the mechanism behind the instability of isoreticular metal-organic frameworks (IRMOFs) in humid environments. 2012 , 18, 12260-6	55
890	New insights into cinchonine-aluminium complexes and their application as chiral building blocks: unprecedented ligand-exchange processes in the presence of ZnR2 compounds. 2012 , 18, 13460-5	13
889	Zeolitic boron imidazolate frameworks with 4-connected octahedral metal centers. 2012 , 18, 11876-9	33
888	Evidence of photoinduced charge separation in the metal-organic framework MIL-125(Ti)-NH2. 2012 , 13, 3651-4	90
887	MetalâBrganic framework MIL-100(Fe) for the adsorption of malachite green from aqueous solution. 2012 , 22, 7449	407
886	Spectroscopic characterization of van der Waals interactions in a metal organic framework with unsaturated metal centers: MOF-74-Mg. 2012 , 24, 424203	28
885	Functional porphyrinic metal-organic frameworks: crystal engineering and applications. 2012 , 41, 3879-88	104
884	Inherent proton conduction in a 2D coordination framework. 2012 , 134, 12780-5	216
883	In silico screening of carbon-capture materials. 2012 , 11, 633-41	433

(2012-2012)

MetalâBrganic frameworks and related materials for hydrogen purification: Interplay of pore size and pore wall polarity. 2012 , 2, 4382	35
Solvothermal synthesis of luminescent Eu(BTC)(H2O)DMF hierarchical architectures. 2012 , 14, 2914	38
Reversible structural switch in the nano-cavity of crystalline metallo-macrocycles with smooth ligand exchange by non-coordinating guest stimuli. 2012 , 48, 7553-5	19
Synthesis of a MetalâØrganic Framework, Iron-Benezenetricarboxylate, from Dry Gels in the Absence of Acid and Salt. 2012 , 12, 5878-5881	56
How water fosters a remarkable 5-fold increase in low-pressure CO2 uptake within mesoporous MIL-100(Fe). 2012 , 134, 10174-81	170
Syntheses, structures, luminescence, and magnetic properties of one-dimensional lanthanide coordination polymers with a rigid 2,2'-bipyridine-3,3',6,6'-tetracarboxylic acid ligand. 2012 , 51, 2170-7	63
Adsorption of Hydrocarbons in MetalâDrganic Frameworks: A Force Field Benchmark on the Example of Benzene in MetalâDrganic Framework 5. 2012 , 116, 15369-15377	12
Metal-organic frameworks in mixed-matrix membranes for gas separation. 2012 , 41, 14003-27	391
Successful implementation of the stepwise layer-by-layer growth of MOF thin films on confined surfaces: mesoporous silica foam as a first case study. 2012 , 48, 11434-6	87
Methane storage in advanced porous materials. <i>Chemical Society Reviews</i> , 2012 , 41, 7761-79 58.5	643
Metal-organic frameworks post-synthetically modified with ferrocenyl groups: framework effects on redox processes and surface conduction. 2012 , 41, 1475-80	56
Assembly and properties of transition-metal coordination polymers based on semi-rigid bis-pyridyl-bis-amide ligand: effect of polycarboxylates on the dimensionality. 2012 , 41, 11074-84	51
A series of three-dimensional (3D) chiral lanthanide coordination polymers generated by spontaneous resolution. 2012 , 14, 8083	20
Metallosupramolecular Chemistry of Novel Chiral closo-o-Carboranylalcohol Pyridine and Quinoline Ligands: Syntheses, Characterization, and Properties of Cobalt Complexes. 2012 , 12, 5720-5736	16
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
Metal-adeninate vertices for the construction of an exceptionally porous metal-organic framework. 2012 , 3, 604	312
Reverse shape selectivity in the liquid-phase adsorption of xylene isomers in zirconium terephthalate MOF UiO-66. 2012 , 28, 5715-23	98
	Solvothermal synthesis of luminescent Eu(BTC)(H2O)DMF hierarchical architectures. 2012, 14, 2914 Reversible structural switch in the nano-cavity of crystalline metallo-macrocycles with smooth ligand exchange by non-coordinating guest stimuli. 2012, 48, 7553-5 Synthesis of a MetalâDrganic Framework, Iron-Benezenetricarboxylate, from Dry Gels in the Absence of Acid and Salt. 2012, 12, 5878-5881 How water fosters a remarkable 5-fold increase in low-pressure CO2 uptake within mesoporous MIL-100(Fe). 2012, 134, 10174-81 Syntheses, structures, luminescence, and magnetic properties of one-dimensional lanthanide coordination polymers with a rigid 2,2'-bipyridine-3,3',6,6'-tetracarboxylic acid ligand. 2012, 51, 2170-7 Adsorption of Hydrocarbons in MetalâDrganic Frameworks: A Force Field Benchmark on the Example of Benzene in MetalâDrganic Framework 5. 2012, 116, 15369-15377 Metal-organic frameworks in mixed-matrix membranes for gas separation. 2012, 41, 14003-27 Successful implementation of the stepwise layer-by-layer growth of MOF thin films on confined surfaces: mesoporous silica foam as a first case study. 2012, 48, 11434-6 Methane storage in advanced porous materials. Chemical Society Reviews, 2012, 41, 7761-79 S8-5 Metal-organic frameworks post-synthetically modified with ferrocenyl groups: framework effects on redox processes and surface conduction. 2012, 41, 1475-80 Assembly and properties of transition-metal coordination polymers based on semi-rigid bis-pyridyl-bis-amide ligand: effect of polycarboxylates on the dimensionality. 2012, 41, 11074-84 A series of three-dimensional (3D) chiral lanthanide coordination polymers generated by spontaneous resolution. 2012, 14, 8083 Metallosupramolecular chemistry of Novel Chiral closo-o-Carboranylalcohol Pyridine and Quinoline Ligands: Syntheses, Characterization, and Properties of Cobalt Complexes. 2012, 12, 5720-5736 The biocompatibility of metal-organic framework coatings: an investigation on the stability of SURMOFs with regard to water and selected cell

864	Zeolitelike MetalâDrganic Frameworks (ZMOFs): Design, Structure, and Properties. 2012,	1
863	Fuel purification, Lewis acid and aerobic oxidation catalysis performed by a microporous Co-BTT (BTT3âl 1,3,5-benzenetristetrazolate) framework having coordinatively unsaturated sites. 2012 , 22, 10200	53
862	Designing higher surface area metal-organic frameworks: are triple bonds better than phenyls?. 2012 , 134, 9860-3	170
861	Selective carbon dioxide uptake and crystal-to-crystal transformation: porous 3D framework to 1D chain triggered by conformational change of the spacer. 2012 , 14, 684-690	33
860	Remarkable solvent-size effects in constructing novel porous 1,3,5-benzenetricarboxylate metalâBrganic frameworks. 2012 , 14, 5596	66
859	Ion Exchange in MetalâDrganic Framework for Water Purification: Insight from Molecular Simulation. 2012 , 116, 6925-6931	61
858	Nitric oxide release: part I. Macromolecular scaffolds. <i>Chemical Society Reviews</i> , 2012 , 41, 3731-41 58.5	318
857	Selective CO2 adsorption in a robust and water-stable porous coordination polymer with new network topology. 2012 , 51, 572-6	91
856	Architectures of transition metal(II) polymeric frameworks constructed from 3- fluorophthalic acid and 1,3-bis(4-pyridyl)propane: synthesis, crystal structures and properties. 2012 , 14, 5322	12
855	Five M(II) coordination polymers assembled from various polynuclear units spaced by semirigid carboxyphenylpropionate and N-donor coligand. 2012 , 14, 880-889	33
854	Chiral nanoporous metal-metallosalen frameworks for hydrolytic kinetic resolution of epoxides. 2012 , 134, 8058-61	227
853	Metal complexes as templates: syntheses, structures, and luminescent properties of two zinc phosphonocarboxylates with ABW-zeolite topology. 2012 , 41, 4079-83	22
852	Metal Organic Frameworks (MOFs). 2012 , 729-767	
851	Anion-Controlled Assembly of Silver(I)/Aminobenzonitrile Compounds: Syntheses, Crystal Structures, and Photoluminescence Properties. 2012 , 12, 354-361	54
850	Urea metal-organic frameworks as effective and size-selective hydrogen-bond catalysts. 2012 , 134, 3334-7	260
849	Nanosponges for hydrogen storage. 2012 , 22, 10134	56
848	Improving the hydrogen storage capacity of metal organic framework by chemical functionalization. 2012 , 37, 16070-16077	25
847	Structure dependent thermo-reversible dissolution of organic molecules based on tyclodextrin complexes and its application in preparetive-scale separation of xylene isomers. 2012 , 414, 120-124	6

846 Rotational flexibility of bridging ligands in paddleawheel layerapillar metalabrganic frameworks studied by quantum calculations. **2012**, 1001, 33-38

845	Synthesis, structural analysis, and thermal and spectroscopic studies of methylmalonate-containing zinc(II) complexes. 2012 , 15, 911-923	5
844	Novel Sorption Materials for Solar Heating and Cooling. 2012 , 30, 279-288	79
843	Amine-functionalized MIL-53(Al) for CO2/N2 separation: Effect of textural properties. 2012 , 102, 574-579	46
842	Synthesis, characterization and thermal decomposition kinetics as well as evaluation of luminescent properties of several 3D lanthanide coordination polymers as selective luminescent probes of metal ions. 2012 , 162, 1775-1788	9
841	DyPO4 flower-like superstructures and macroporous microstructures from dysprosium-based coordination polymer wires. 2012 , 230, 151-157	7
840	Low-temperature loading of Cu+ species over porous metal-organic frameworks (MOFs) and adsorptive desulfurization with Cu+-loaded MOFs. 2012 , 237-238, 180-5	111
839	Lanthanide-2,3,5,6-Tetrabromoterephthalic Acid MetalâDrganic Frameworks: Evolution of HalogenIIIHalogen Interactions across the Lanthanide Series and Their Potential as Selective Bifunctional Sensors for the Detection of Fe3+, Cu2+, and Nitroaromatics. 2019 , 19, 305-319	64
838	Shedding Light on the Dark Corners of Metal-Organic Framework Thin Films: Growth and Structural Stability of ZIF-8 Layers Probed by Optical Waveguide Spectroscopy. 2019 , 123, 1100-1109	15
837	Catalysis by Metal Organic Frameworks: Perspective and Suggestions for Future Research. 2019 , 9, 1779-1798	375
836	Hydrogenation and hydration of carbon dioxide: a detailed characterization of the reaction mechanisms based on the reaction force and reaction electronic flux analyses. 2019 , 25, 16	8
835	Fast Ion Transport Pathway Provided by Polyethylene Glycol Confined in Covalent Organic Frameworks. 2019 , 141, 1923-1927	138
834	Metal-Organic Frameworks as Hosts for Fluorinated Azobenzenes: A Path towards Quantitative Photoswitching with Visible Light. 2019 , 25, 3606-3616	27
833	Solvent-free method to encapsulate polyoxometalate into metal-organic frameworks as efficient and recyclable photocatalyst for harmful sulfamethazine degrading in water. 2019 , 245, 753-759	48
832	Lectin-Recognizable MOF Glyconanoparticles: Supramolecular Glycosylation of ZIF-8 Nanocrystals by Sugar-Based Surfactants. 2019 , 4, 842-848	6
831	Effect of the support morphology on the performance of Co nanoparticles deposited on metalâBrganic framework MIL-53(Al) in Fischerâ⊞ropsch synthesis. 2019 , 157, 389-395	12
830	Palladium nanoparticles embedded in MOF matrices: Catalytic activity and structural stability in iodobenzene methoxycarbonylation. 2019 , 158, 55-64	9
829	Adsorptive heat storage and amplification: New cycles and adsorbents. 2019 , 167, 440-453	30

828	Adsorptive separation of volatile anaesthetics: A review of current developments. 2019, 211, 491-503	8
827	An In-Situ Neutron Diffraction and DFT Study of Hydrogen Adsorption in a Sodalite-Type Metalâ�rganic Framework, Cu-BTTri. 2019 , 2019, 1147-1154	13
826	Microwave assisted magnetic solid phase extraction using a novel amino-functionalized magnetic framework composite of type FeO-NH@MIL-101(Cr) for the determination of organochlorine pesticides in soil samples. 2019 , 196, 572-578	26
825	Nanohybrid Photocatalysts for Heavy Metal Pollutant Control. 2019 , 125-153	6
824	Adsorption/desorption kinetics and breakthrough of gaseous toluene for modified microporous-mesoporous UiO-66 metal organic framework. 2019 , 366, 140-150	178
823	Acid-mediated surface etching of a nano-sized metal-organic framework for improved reactivity in the fixation of CO2 into polymers. 2019 , 71, 336-344	15
822	Synthetic Strategies and Structural Arrangements of Isoreticular Mixed-Component Metal-Organic Frameworks. 2019 , 25, 1866-1882	40
821	Amide-functionalized metalâBrganic frameworks: Syntheses, structures and improved gas storage and separation properties. 2019 , 378, 2-16	163
820	Nitrate Adsorption from Aqueous Solution by MetalâDrganic Framework MOF-5. 2019 , 43, 443-449	13
819	Construction of mixed carboxylate and pyrogallate building units for luminescent metalâBrganic frameworks. 2020 , 31, 813-817	4
818	Structural changes in copper based metal-organic framework catalyst induced by organic solvents. 2020 , 351, 2-5	1
817	Magnetic transitions in metal-organic frameworks of [(CH3)2NH2]FeII(HCOO)3, [(CH3)2NH2]CoII(HCOO)3 and [(CH3)2NH2]FeIIIFeII(HCOO)6. 2020 , 493, 165715	1
816	Synthesis of High Efficient and Stable Au@ZIF-8 with Difference Particle Size for Chemselective Hydrogenation of Nitro Compounds. 2020 , 150, 438-449	3
815	Highly active hybrid mesoporous silica-supported base organocatalysts for CC bond formation. 2020 , 345, 227-236	10
814	Solvothermal synthesis, structural characterization, DFT and magnetic studies of a dinuclear paddlewheel Cu(II)-metallamacrocycle. 2020 , 1201, 127193	2
813	Metalâ�rganic Frameworks (MOFs) and MOF-Derived Porous Carbon Materials for Sustainable Adsorptive Wastewater Treatment. 2020 , 163-194	10
812	Shaping of metal-organic framework UiO-66 using alginates: Effect of operation variables. 2020 , 235, 116182	20
811	Improving CO2/CH4 and CO2/N2 adsorptive selectivity of Cu-BTC and MOF-derived nanoporous carbon by modification with nitrogen-containing groups. 2020 , 39, 13302	12

810	Dyes encapsulated in a novel flexible metalåbrganic framework show tunable and stimuli-responsive phosphorescence. 2020 , 174, 108017	8
809	Adsorptive purification of organic contaminants of emerging concern from water with metalaBrganic frameworks. 2020 , 47-92	1
808	Post-synthetic Modification of DUT-5-based Metal Organic Frameworks for the Generation of Single-site Catalysts and their Application in Selective Epoxidation Reactions. 2020 , 12, 1134-1142	7
807	Synthesis and characterization of mesoporous MOF UMCM-1 for CO2/CH4 adsorption; an experimental, isotherm modeling and thermodynamic study. 2020 , 294, 109844	29
806	Metal-Organic Cages (MOCs): From Discrete to Cage-based Extended Architectures. 2020, 49, 28-53	38
805	Recent Advances of Supercritical CO2 in Green Synthesis and Activation of Metalâ©rganic Frameworks. 2020 , 30, 581-595	8
804	Covalent triazine frameworks membrane with highly ordered skeleton nanopores for robust and precise molecule/ion separation. 2020 , 595, 117525	22
803	Using Supercritical CO2 in the Preparation of Metal-Organic Frameworks: Investigating Effects on Crystallisation. 2020 , 10, 17	4
802	Zn-assisted photothermal therapy for rapid bacteria-killing using biodegradable humic acid encapsulated MOFs. 2020 , 188, 110781	24
801	Zirconium-Based MetalâDrganic Framework Nanocomposites Containing Dimensionally Distinct Nanocarbons for Pseudocapacitors. 2020 , 3, 1448-1456	10
800	Efficient polymerase chain reaction assisted by metal-organic frameworks. 2019 , 11, 797-802	6
799	Water-stable 2-D Zr MOFs with exceptional UO22+ sorption capability. 2020 , 8, 1849-1857	15
798	A novel one-dimensional coordination polymer of cadmium(II)/triazine extending by di-chloro and di-iodo bridges. 2020 , 44, 221-226	
797	Biomimetic O adsorption in an iron metal-organic framework for air separation. 2020 , 11, 1698-1702	15
796	A new cobalt metal-organic framework as a substrate for Pd nanoparticles applied in high-efficiency nitro phenol degradation and cinnamaldehyde hydrogenation. 2020 , 49, 1191-1199	10
795	Recent developments in luminescent coordination polymers: Designing strategies, sensing application and theoretical evidences. 2020 , 406, 213145	210
794	Enhanced tetracycline adsorption using alginate-graphene-ZIF67 aerogel. 2020 , 588, 124360	42
793	Four New Luminescent MetalâDrganic Frameworks as Multifunctional Sensors for Detecting Fe3+, Cr2O72âland Nitromethane. 2020 , 20, 1898-1904	24

792	In Silico Investigation into H Uptake in MOFs: Combined Text/Data Mining and Structural Calculations. 2020 , 36, 119-129	5
791	High-Performance CO-Selective Hybrid Membranes by Exploiting MOF-Breathing Effects. 2020 , 12, 2952-2961	13
790	Semiconductive Nature of Lead-Based Metal-Organic Frameworks with Three-Dimensionally Extended Sulfur Secondary Building Units. 2020 , 142, 27-32	29
789	Synthesis, structures, and fluorescence properties of one novel Cobalt metalâBrganic framework based on a tetraphenylethene-core ligand. 2020 , 44, 193-197	4
788	Nanoscale metal-organic frameworks as key players in the context of drug delivery: evolution toward theranostic platforms. 2020 , 412, 37-54	19
787	Photochromic inorganicâBrganic complex derived from low-cost deep eutectic solvents with tunable photocurrent responses and photocatalytic properties. 2020 , 22, 1078-1085	14
786	Influence of post-synthetic graphene oxide (GO) functionalization on the selective CO2/CH4 adsorption behavior of MOF-200 at different temperatures; an experimental and adsorption isotherms study. 2020 , 296, 110002	42
7 ⁸ 5	Made-to-order porous electrodes for supercapacitors: MOFs embedded with redox-active centers as a case study. 2020 , 56, 1883-1886	19
784	Synthesis of new \(\text{\text{\text{\text{B}minophosphonates}}}\) using nanoscale nickel-based metal\(\text{\text{\text{\text{\text{B}rganic}}}\) framework as a heterogeneous catalyst and their antibacterial activity. \(\text{2020}\), 34, e5317	6
783	Precise humidity control materials for autonomous regulation of indoor moisture. 2020 , 169, 106581	15
782	Atomistic Insight Into the Host-Guest Interaction of a Photoresponsive Metal-Organic Framework. 2020 , 26, 1263-1268	12
781	Mimic of Ferroalloy To Develop a Bifunctional Fe-Organic Framework Platform for Enhanced Gas Sorption and Efficient Oxygen Evolution Electrocatalysis. 2020 , 12, 4432-4442	10
78o	Porous Macroligands: Materials for Heterogeneous Molecular Catalysis. 2020 , 12, 1270-1275	12
779	Enzyme immobilized in BioMOFs: Facile synthesis and improved catalytic performance. 2020 , 144, 19-28	17
778	Potable water extraction from the atmosphere: Potential of MOFs. 2020 , 148, 72-80	27
777	Solvent-Vapor-Induced Reversible Single-Crystal-to-Single-Crystal Transformation of a Triphosphaazatriangulene-Based MetalâDrganic Framework. 2020 , 132, 1451-1455	2
776	Adsorption of volatile organic compounds by ZIF-8, Cu-BTC and a Prussian blue analogue: A comparative study. 2020 , 501, 119316	7
775	A review on production of metal organic frameworks (MOF) for CO adsorption. 2020 , 707, 135090	157

774	Triphosphaazatriangulene-Based Metal-Organic Framework. 2020 , 59, 1435-1439	23
773	Swift and Efficient Nuclear Spin Conversion of Molecular Hydrogen Confined in Prussian Blue Analogs. 2020 , 49, 149-152	1
772	Application of organic-inorganic hybrids in lithium batteries. 2020 , 15, 100289	8
771	Product Control in Conversion of Ethanol on MIL-101(Cr) with Adjustable Brfisted Acid Density. 2020 , 12, 6234-6240	1
770	Upgrading pipeline-quality natural gas to liquefied-quality via pressure swing adsorption using MIL-101(Cr) as adsorbent to remove CO2 and H2S from the gas. 2020 , 281, 118985	6
769	Recent Advancements and Future Prospects in Ultrathin 2D Semiconductor-Based Photocatalysts for Water Splitting. 2020 , 10, 1111	18
768	A critical review on recent developments in MOF adsorbents for the elimination of toxic heavy metals from aqueous solutions. 2020 , 27, 44771-44796	24
767	Adsorptive Performance of MOFs and MOF Containing Composites for Clean Energy and Safe Environment. 2020 , 8, 104386	27
766	Selective removal of dual dyes from aqueous solutions using a metal organic framework (MIL-53(Al)). 2020 , 190, 114762	15
765	Tunable Strategies Involving Flexibility and Angularity of Dual Linkers for a 3D Metal-Organic Framework Capable of Multimedia Iodine Capture. 2020 , 12, 46107-46118	17
764	Synthesis of Metal-Organic Framework Cr-MIL-101 by a 4-Nitroimidazole-Assistant Route. 2020 , 15, 2050146	
763	Mechanism of the highly effective peptide bond hydrolysis by MOF-808 catalyst under biologically relevant conditions. 2020 , 22, 25136-25145	11
762	The chemistry of Ce-based metal-organic frameworks. 2020 , 49, 16551-16586	30
761	Bismuth-based metalâßrganic framework prepared by pulsed laser ablation method in liquid. 2020 , 14, 1-8	2
760	Metal-organic frameworks (MOFs) for the adsorptive removal of selected endocrine disrupting compounds (EDCs) from aqueous solution: A review. 2020 , 21, 100796	23
759	Structure and tuneable luminescence in polymeric zinc compounds based on 3-(3-pyridyl)-5-(4-pyridyl)-1,2,4-triazole. 2020 , 191, 114768	10
758	Selective CO2 or CH4 adsorption of two anionic bcu-MOFs with two different counterions: experimental and simulation studies. 2020 , 7, 4631-4639	3
757	"Gold-plated" IRMOF-3 and sea cucumber-like Pd@PtRh SNRs based sandwich-type immunosensor for dual-mode detection of PCT. 2020 , 170, 112667	12

756	Ethylendiamine (EDA) loading on MOF-5 for enhanced carbon dioxide capture applications. 2020 , 471, 012009	О
755	Highly Active Gas Phase Organometallic Catalysis Supported Within Metal-Organic Framework Pores. 2020 , 142, 13533-13543	16
754	UiO-66-NH MOF-based ratiometric fluorescent probe for the detection of dopamine and reduced glutathione. 2020 , 220, 121352	25
753	Tuning the Ultra-Micropore Size of Fluorinated MOFs (M?F6-Ni-L) for CO2 Capture from Flue Gases by Advanced Computational Methods. 2020 , 124, 16975-16989	12
75 ²	Dynamic single-site polysulfide immobilization in long-range disorder Cu-MOFs. 2020 , 56, 10074-10077	О
75 ¹	Responsive Four-Coordinate Iron(II) Nodes in FePd(CN). 2020 , 59, 19254-19259	6
75°	Advances in Organic Crystal Chemistry. 2020,	1
749	Designing a New Efficient Photocatalyst Based on Functionalization of Zn-Infinite Coordination Polymer with Ru(acac) Complex for Dye Degradation in Aqueous Solutions: Charge Separation Effect. 2020 , 36, 14224-14233	7
748	Metal-Organic Frameworks History and Structural Features. 2020 , 1-29	3
747	A Y(III)-based Metal-Organic Framework as a Carrier in Chemodynamic Therapy. 2020 , 59, 17276-17281	9
746	Dialing in Catalytic Sites on Metal Organic Framework Nodes: MIL-53(Al) and MIL-68(Al) Probed with Methanol Dehydration Catalysis. 2020 , 12, 53537-53546	8
745	Controlled syntheses of Ag nanoparticles inside MOFs by using amine-borans as vapour phase reductants. 2020 , 49, 17169-17172	1
744	Frontiers in hybrid and interfacial materials chemistry research. 2020 , 45, 951-964	2
743	Ionothermal synthesis of a photochromic inorganic-organic complex for colorimetric and portable UV index indication and UVB detection 2020 , 10, 41720-41726	3
742	The Surface Chemistry of Metal Oxide Clusters: From Metal-Organic Frameworks to Minerals. 2020 , 6, 1523-1533	11
741	Ce-MIL-140: expanding the synthesis routes for cerium(iv) metal-organic frameworks. 2020 , 49, 11396-11402	9
740	Crystal growth, spectral, optical, thermal, luminescence and magnetic properties of blue light emitting diaquabis(hydrogenmalonato)cobalt(II). 2020 , 703, 23-31	
739	. 2020,	3

738	Zeolite-Like Boron Imidazolate Frameworks (BIFs): Synthesis and Application. 2020 , 10, 617	4
737	Review of the Biomolecular Modification of the Metal-Organ-Framework. 2020 , 8, 642	12
736	A visible-light responsive metalâBrganic framework as an eco-friendly photocatalyst under ambient air at room temperature. 2020 , 7, 3541-3547	4
735	Perovskite Nano-Heterojunctions: Synthesis, Structures, Properties, Challenges, and Prospects. 2020 , 1, 2000009	27
734	Structures and Structural Evolution of Sublayer Surfaces of Metal-Organic Frameworks. 2020 , 59, 21419-214	249
733	Anisotropic reticular chemistry. 2020 , 5, 764-779	72
732	Synthesis and use of carvedilol metal complexes as carbon dioxide storage media. 2020, 10, 157-164	2
731	Metal-Organic Phase-Change Materials for Thermal Energy Storage. 2020 , 142, 19170-19180	21
730	Hierarchical 2D yarn-ball like metalâBrganic framework NiFe(dobpdc) as bifunctional electrocatalyst for efficient overall electrocatalytic water splitting. 2020 , 8, 22974-22982	17
729	Self-Assembled Mesoporous Zeolitic Imidazolate Framework-8 (ZIF-8) Nanocrystals Bearing Thiol Groups for Separations Technologies. 2020 , 3, 11266-11273	2
728	Luminescent sensing of nitroaromatics by crystalline porous materials. 2020 , 22, 7736-7781	67
727	Molecular Spheres Inspired Self-Assembly of Hydrolytically Stable Mesoporous Zirconium-Based MetalâDrganic Frameworks. 2020 , 20, 8015-8020	3
726	Influence of mechanical, thermal, and electrical perturbations on the dielectric behaviour of guest-encapsulated HKUST-1 crystals. 2020 , 8, 12886-12892	4
725	Influence of Thermal and Mechanical Stimuli on the Behavior of Al-CAU-13 Metal-Organic Framework. 2020 , 10,	1
724	Metal-Organic Framework-Coated Photonic Crystals for High-Performance Thin-Layer Chromatography. 2020 , 12, 44058-44066	3
723	Downsizing metalâBrganic frameworks by bottom-up and top-down methods. 2020 , 12,	47
722	Molecular Intermediate in the Directed Formation of a Zeolitic Metal-Organic Framework. 2020 , 142, 17598-17606	7
721	Recent Advances in Affinity MOF-Based Sorbents with Sample Preparation Purposes. 2020 , 25,	9

720	Fundamentals and applications of nanoparticles for ultrasound-based imaging and therapy. 2020 , 1, 263-284	3
719	Pseudo-Membrane Jackets: Two-Dimensional Coordination Polymers Achieving Visible Phase Separation in Cell Membrane. 2020 , 132, 18087-18093	2
718	Structures and Structural Evolution of Sublayer Surfaces of MetalâDrganic Frameworks. 2020 , 132, 21603-216	0.8
717	Metal-Organic Frameworks for Macromolecular Recognition and Separation. 2020 , 3, 652-663	16
716	Oxygen Plasma Activation of Carbon Nanotubes-Interconnected Prussian Blue Analogue for Oxygen Evolution Reaction. 2020 , 12, 42634-42643	16
715	Synthesis, Structural Features, and Hydrogen Adsorption Properties of Three New Flexible Sulfur-Containing Metalâ'Drganic Frameworks. 2020 , 20, 6707-6714	2
714	Redox-Hopping and Electrochemical Behaviors of MetalâΦrganic Framework Thin Films Fabricated by Various Approaches. 2020 , 124, 20854-20863	7
713	Pore-Confined Silver Nanoparticles in a Porphyrinic MetalâDrganic Framework for Electrochemical Nitrite Detection. 2020 , 3, 9440-9448	24
712	Anomalous Behavior of Heat Capacity in Ni2(bdc)2(dabco). Schottky Anomaly and Spinâ P honon Interaction. 2020 , 124, 20222-20227	1
711	Extension of Surface Organometallic Chemistry to Metal-Organic Frameworks: Development of a Well-Defined Single Site [(?Zr-O-)W(?O)(CHBu)] Olefin Metathesis Catalyst. 2020 , 142, 16690-16703	19
710	Probing Local DonorâAcceptor Charge Transfer in a MetalâDrganic Framework Via a Scanning Tunneling Microscope. 2020 , 124, 21635-21640	3
709	Responsive Four-Coordinate Iron(II) Nodes in FePd(CN)4. 2020 , 132, 19416-19421	
708	Nanocomposites of NiO/CuO Based MOF with rGO: An Efficient and Robust Electrocatalyst for Methanol Oxidation Reaction in DMFC. 2020 , 10,	26
707	Spectroscopy, microscopy, diffraction and scattering of archetypal MOFs: formation, metal sites in catalysis and thin films. <i>Chemical Society Reviews</i> , 2020 , 49, 6694-6732	26
706	Solvent-free synthesis of ZIF-8 from zinc acetate with the assistance of sodium hydroxide. 2020 , 49, 12555-125	5 6 8
705	Structure and Stability of Gas Adsorption Complexes in Periodic Porous Solids as Studied by VTIR Spectroscopy: An Overview. 2020 , 10, 8589	1
704	ECyclodextrin-Silica Hybrid: A Spatially Controllable Anchoring Strategy for Cu(II)/Cu(I) Complex Immobilization. 2020 , 10, 1118	2
703	Tuning magnetic anisotropy by the Ebonding features of the axial ligands and the electronic effects of gold(I) atoms in 2D {Co(L)2[Au(CN)2]2}n metalâBrganic frameworks with field-induced single-ion magnet behaviour. 2020 , 7, 4611-4630	1

702	Robust Atomistic Modeling of Materials, Organometallic, and Biochemical Systems. 2020 , 132, 15795-15803	20
701	Influence of thermally induced structural transformations on the magnetic and luminescence properties of tartrate-based chiral lanthanide organic-frameworks. 2020 , 8, 8243-8256	10
700	Oxygen-assisted Cathodic Deposition of Copper-Carboxylate MetalâDrganic Framework Films. 2020 , 20, 3997-4004	9
699	Polymers in MetalâDrganic Frameworks: From Nanostructured Chain Assemblies to New Functional Materials. 2020 , 49, 624-632	10
698	Charge Transport in Zirconium-Based Metal-Organic Frameworks. 2020 , 53, 1187-1195	47
697	Pyridinium-Functionalized Ionic Metal-Organic Frameworks Designed as Bifunctional Catalysts for CO Fixation into Cyclic Carbonates. 2020 , 12, 24868-24876	47
696	Formation of Local Defects and Mesopores in a Structure of UiO-66-NDC Metal-Organic Framework. 2020 , 14, 318-323	0
695	Metal-organic framework MOF-801/PIM-1 mixed-matrix membranes for enhanced CO2/N2 separation performance. 2020 , 250, 117198	28
694	Simulations of H2 Sorption in an Anthracene-Functionalized rht-MetalâDrganic Framework. 2020 , 124, 13753-13764	1
693	Electrochemical Evolution of Pore-Confined Metallic Molybdenum in a Metalâ©rganic Framework (MOF) for All-MOF-Based Pseudocapacitors. 2020 , 3, 6258-6267	16
692	Hydrothermal Catalytic Conversion of Glucose into Lactic Acid with Acidic MIL-101(Fe). 2020, 2020, 1-7	0
691	Water and Metal-Organic Frameworks: From Interaction toward Utilization. 2020 , 120, 8303-8377	114
690	Alteration of the morphology of polyvinylidene fluoride membrane by incorporating MOF-199 nanomaterials for improving water permeation with antifouling and antibacterial property. 2020 , 67, 1807-1817	11
689	Size-Tunable Synthesis of Palladium Nanoparticles Confined within Topologically Distinct MetalâDrganic Frameworks for Catalytic Dehydrogenation of Methanol. 2020 , 124, 12521-12530	11
688	New methodologies and equipment used in new-generation separation and preconcentration methods. 2020 , 149-206	
687	Emerging trends in porous materials for CO capture and conversion. <i>Chemical Society Reviews</i> , 2020 , 49, 4360-4404	196
686	Cu-impregnated metalâBrganic frameworks for separation and recovery of CO from blast furnace gas. 2020 , 87, 102-109	10
685	A 2-Fold Interpenetrated Nitrogen-Rich Metal-Organic Framework for Rapid and Selective Adsorption of Congo Red. 2020 , 59, 8213-8219	15

684	Template-directed assembly of urchin-like CoSx/Co-MOF as an efficient bifunctional electrocatalyst for overall water and urea electrolysis. 2020 , 7, 2602-2610	32
683	Effect of spin-phonon interactions on Urbach tails in flexible [M(bdc)(dabco)]. 2020, 22, 15242-15247	4
682	Cyclohexene epoxidation with H2O2 in the vapor and liquid phases over a vanadium-based metalâBrganic framework. 2020 , 10, 4580-4585	9
681	MetalâDrganic Frameworks toward Electrochemical Sensors: Challenges and Opportunities. 2020 , 32, 1885-1895	47
680	Metal-organic frameworks as adsorbents for sequestering organic pollutants from wastewater. 2020 , 253, 123246	23
679	Impact of the Preparation Procedure on the Performance of the Microporous HKUST-1 Metal-Organic Framework in the Liquid-Phase Separation of Aromatic Compounds. 2020 , 25,	2
678	In Situ Monitoring of Particle Formation with Spectroscopic and Analytical Techniques Under Solvothermal Conditions. 2020 , 43, 879-886	1
677	Matching Charge Towards Synthesis of Tetrazole Frameworks for Iodine Uptake. 2020 , 30, 4764-4770	
676	. 2020,	1
675	Supramolecular Chiral Nanoarchitectonics. 2020 , 32, e1905657	76
6 ₇₅	Supramolecular Chiral Nanoarchitectonics. 2020 , 32, e1905657 CO2 Separation Performance of Zeolitic Imidazolate Framework-8 Porous Slurry in a Pilot-Scale Packed Tower. 2020 , 59, 6154-6163	76 8
	CO2 Separation Performance of Zeolitic Imidazolate Framework-8 Porous Slurry in a Pilot-Scale	, i
674	CO2 Separation Performance of Zeolitic Imidazolate Framework-8 Porous Slurry in a Pilot-Scale Packed Tower. 2020 , 59, 6154-6163 Coordination Affinity of Cu(II)-Based Silsesquioxanes toward N,N-Ligands and Associated Skeletal Rearrangements: Cage and Ionic Products Exhibiting a High Catalytic Activity in Oxidation	8
6 ₇₄	CO2 Separation Performance of Zeolitic Imidazolate Framework-8 Porous Slurry in a Pilot-Scale Packed Tower. 2020, 59, 6154-6163 Coordination Affinity of Cu(II)-Based Silsesquioxanes toward N,N-Ligands and Associated Skeletal Rearrangements: Cage and Ionic Products Exhibiting a High Catalytic Activity in Oxidation Reactions. 2020, 59, 4536-4545 Non-enzymatic Electroanalytical Sensing of Glucose Based on Nano Nickel-Coordination	8
674 673 672	CO2 Separation Performance of Zeolitic Imidazolate Framework-8 Porous Slurry in a Pilot-Scale Packed Tower. 2020, 59, 6154-6163 Coordination Affinity of Cu(II)-Based Silsesquioxanes toward N,N-Ligands and Associated Skeletal Rearrangements: Cage and Ionic Products Exhibiting a High Catalytic Activity in Oxidation Reactions. 2020, 59, 4536-4545 Non-enzymatic Electroanalytical Sensing of Glucose Based on Nano Nickel-Coordination Polymers-Modified Glassy Carbon Electrode. 2020, 30, 2027-2038 Enantioselective inclusion of pyrene-1-sulfonate salts of Emino acids with crystals of	8 10 6
674 673 672	CO2 Separation Performance of Zeolitic Imidazolate Framework-8 Porous Slurry in a Pilot-Scale Packed Tower. 2020, 59, 6154-6163 Coordination Affinity of Cu(II)-Based Silsesquioxanes toward N,N-Ligands and Associated Skeletal Rearrangements: Cage and Ionic Products Exhibiting a High Catalytic Activity in Oxidation Reactions. 2020, 59, 4536-4545 Non-enzymatic Electroanalytical Sensing of Glucose Based on Nano Nickel-Coordination Polymers-Modified Glassy Carbon Electrode. 2020, 30, 2027-2038 Enantioselective inclusion of pyrene-1-sulfonate salts of Emino acids with crystals of Etyclodextrin. 2020, 76, 131100	8 10 6
674 673 672 671	CO2 Separation Performance of Zeolitic Imidazolate Framework-8 Porous Slurry in a Pilot-Scale Packed Tower. 2020, 59, 6154-6163 Coordination Affinity of Cu(II)-Based Silsesquioxanes toward N,N-Ligands and Associated Skeletal Rearrangements: Cage and Ionic Products Exhibiting a High Catalytic Activity in Oxidation Reactions. 2020, 59, 4536-4545 Non-enzymatic Electroanalytical Sensing of Glucose Based on Nano Nickel-Coordination Polymers-Modified Glassy Carbon Electrode. 2020, 30, 2027-2038 Enantioselective inclusion of pyrene-1-sulfonate salts of Bamino acids with crystals of Eyclodextrin. 2020, 76, 131100 Postsynthetic modification of MOFs for biomedical applications. 2020, 245-276	8 10 6 4

666	A periodic table of metal-organic frameworks. 2020 , 414, 213295	53
665	Reversible Switching between Nonporous and Porous Phases of a New SIFSIX Coordination Network Induced by a Flexible Linker Ligand. 2020 , 142, 6896-6901	20
664	Organic-based thermoelectrics. 2020, 8, 7495-7507	40
663	Self-supported rhodium catalysts based on a microporous metalâBrganic framework for polymerization of phenylacetylene and its derivatives. 2020 , 11, 2904-2913	4
662	Tuning Catalytic Sites on ZrO Metal-Organic Framework Nodes via Ligand and Defect Chemistry Probed with -Butyl Alcohol Dehydration to Isobutylene. 2020 , 142, 8044-8056	45
661	Reactivity of borohydride incorporated in coordination polymers toward carbon dioxide. 2020 , 56, 5111-5114	1
660	Strategies to Enhance Carbon Dioxide Capture in Metal-Organic Frameworks. 2020 , 85, 538-547	12
659	Numerical simulation of static mechanical properties of PMMA microcellular foams. 2020 , 192, 108110	8
658	Construction of a polyMOF using a polymer ligand bearing the benzenedicarboxylic acid moiety in the side chain. 2020 , 44, 5182-5185	4
657	Bio-metal-organic frameworks for molecular recognition and sorbent extraction of hydrophilic vitamins followed by their determination using HPLC-UV. 2020 , 187, 201	9
656	Metal-organic framework derived porous Co3O4 with controllable interior structure for highly efficient CO oxidation. 2020 , 276, 128172	3
655	Pseudo-Membrane Jackets: Two-Dimensional Coordination Polymers Achieving Visible Phase Separation in Cell Membrane. 2020 , 59, 17931-17937	6
654	Postsynthetic Modification: An Enabling Technology for the Advancement of Metal-Organic Frameworks. 2020 , 6, 1046-1057	99
653	Humidity-Mediated Anisotropic Proton Conductivity through the 1D Channels of Co-MOF-74. 2020 , 10,	10
652	Control by one drop of solvent: selective preparation of guest release/trap-triggered interconvertible molecular crystals. 2020 , 56, 9687-9690	5
651	Competing Roles of Two Kinds of Ligand during Nonclassical Crystallization of Pillared-Layer Metal-Organic Frameworks Elucidated Using Microfluidic Systems. 2020 , 26, 8889-8896	1
650	Following the unusual breathing behaviour of O-enriched mixed-metal (Al,Ga)-MIL-53 using NMR crystallography. 2020 , 22, 14514-14526	8
649	Extension of BET theory to CO2 adsorption isotherms for ultra-microporosity of covalent organic polymers. 2020 , 2, 1	10

648 Specific Isotope-Responsive Breathing Transition in Flexible Metal-Organic Frameworks. 2020, 142, 13278-13282

Preparation of a novel sustained-release system for pyrethroids by using metal-organic frameworks (MOFs) nanoparticle. 2020, 694, 12520. Tunable electrochemical synthesis of 3D nucleated microparticles like Cu-BTC MOF-carbon nanotubes composite: Enzyme free ultrasensitive determination of glucose in a complex biological fluid. 2020, 354, 136673 Research on CO2-N2O separation using flexible metal organic frameworks. 2020, 251, 117311 5 Energy-based descriptors for photo-catalytically active metalabrganic framework discovery. 2020, 8, 4473-482 Ultrasound-assisted synthesis of layered zeolitic imidazolate framework: crystal formation and characteristics. 2020, 73, 317-332 643 New metalabrganic frameworks derived from pyridine-3,5-dicarboxylic acid-structural diversity arising from the addition of templates into the reaction systems. 2020, 22, 2083-2096 544 Ficin encapsulated in mesoporous metal-organic frameworks with enhanced peroxidase-like activity and colorimetric detection of glucose. 2020, 233, 118195 645 Porous Aromatic Melamine Schiff Bases as Highly Efficient Media for Carbon Dioxide Storage. 2020, 8, 17 646 Stable d10 MetalaDrganic Framework Exhibiting Bifunctional Properties of Photocatalytic Hydrogen and Oxygen Evolution. 2020, 3, 2983-2988 658 Raman and FTIR spectroscopic study on the formation of the isomers MIL-68(Al) and MIL-53(Al) 24 659 Synthesis and characterization of amino and cyano-functionalized zinc-terephthalate metalabrganic frameworks for loading of piroxicam drug. 2020, 74, 2287-2296 650 Hierarchical and scalable integration of nanostructures for energy and environmental applications: a review of processing, devices, and economic analyses. 2020, 4, 012002 651 Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020, 181, 114463 652 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous disting matrix (MMS), 2020, 300, 110136 652 Metal sulfide/MOF-base			
646 fluid. 2020, 354, 136673 647 Research on CO2-N2O separation using flexible metal organic frameworks. 2020, 251, 117311 648 Research on CO2-N2O separation using flexible metal organic frameworks. 2020, 251, 117311 649 Research on CO2-N2O separation using flexible metal organic frameworks. 2020, 251, 117311 640 Energy-based descriptors for photo-catalytically active metalabirganic framework discovery. 2020, 8, 4473-4482 641 Ultrasound-assisted synthesis of layered zeolitic imidazolate framework: crystal formation and characteristics. 2020, 73, 317-332 642 New metalabirganic frameworks derived from pyridine-3,5-dicarboxylic acid: structural diversity arising from the addition of templates into the reaction systems. 2020, 22, 2083-2096 641 Fidin encapsulated in mesoporous metal-organic frameworks with enhanced peroxidase-like activity and colorimetric detection of glucose. 2020, 233, 118195 642 Porous Aromatic Melamine Schiff Bases as Highly Efficient Media for Carbon Dioxide Storage. 2020, 8, 17 643 Stable d10 Metalabirganic Framework Exhibiting Bifunctional Properties of Photocatalytic Hydrogen and Oxygen Evolution. 2020, 3, 2983-2988 644 Synthesis and characterization of amino and cyano-functionalized zinc-terephthalate metalabirganic frameworks for loading of piroxicam drug. 2020, 74, 2287-2296 645 Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020, 181, 114463 646 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 647 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 648 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 653 Uniteractive by direct polici	647		16
Energy-based descriptors for photo-catalytically active metalâBrganic framework discovery. 2020, 8, 4473-4482 Oltrasound-assisted synthesis of layered zeolitic imidazolate framework: crystal formation and characteristics. 2020, 73, 317-332 New metalâBrganic frameworks derived from pyridine-3,5-dicarboxylic acid: structural diversity arising from the addition of templates into the reaction systems. 2020, 22, 2083-2096 Ficin encapsulated in mesoporous metal-organic frameworks with enhanced peroxidase-like activity and colorimetric detection of glucose. 2020, 233, 118195 640 Porous Aromatic Melamine Schiff Bases as Highly Efficient Media for Carbon Dioxide Storage. 2020, 8, 17 639 Stable d10 MetalâBrganic Framework Exhibiting Bifunctional Properties of Photocatalytic Hydrogen and Oxygen Evolution. 2020, 3, 2983-2988 638 Raman and FTIR spectroscopic study on the formation of the isomers MIL-68(Al) and MIL-53(Al) 24 637 Synthesis and characterization of amino and cyano-functionalized zinc-terephthalate metalâBrganic frameworks for loading of piroxicam drug. 2020, 74, 2287-2296 638 Hierarchical and scalable integration of nanostructures for energy and environmental applications: a review of processing, devices, and economic analyses. 2020, 4, 012002 630 Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020, 181, 114463 110 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 638 Ultrasonication from water splitting. 2020, 242, 116758 639 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220 630 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	646	nanotubes composite: Enzyme free ultrasensitive determination of glucose in a complex biological	32
Ultrasound-assisted synthesis of layered zeolitic imidazolate framework: crystal formation and characteristics. 2020, 73, 317-332 New metaläßrganic frameworks derived from pyridine-3,5-dicarboxylic acid: structural diversity arising from the addition of templates into the reaction systems. 2020, 22, 2083-2096 Ficin encapsulated in mesoporous metal-organic frameworks with enhanced peroxidase-like activity and colorimetric detection of glucose. 2020, 233, 118195 Porous Aromatic Melamine Schiff Bases as Highly Efficient Media for Carbon Dioxide Storage. 2020, 8, 17 Stable d10 Metaläßrganic Framework Exhibiting Bifunctional Properties of Photocatalytic Hydrogen and Oxygen Evolution. 2020, 3, 2983-2988 Saman and FTIR spectroscopic study on the formation of the Isomers MIL-68(AI) and MIL-53(AI) 2020, 10, 7336-7348 Synthesis and characterization of amino and cyano-functionalized zinc-terephthalate metaläßrganic frameworks for loading of piroxicam drug. 2020, 74, 2287-2296 Hierarchical and scalable integration of nanostructures for energy and environmental applications: a review of processing, devices, and economic analyses. 2020, 4, 012002 635 Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020, 181, 114463 11 634 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 635 Whish styrene/ethylbenzene selectivity in a metal-organic framework with coordinatively unsaturated cobalt(II) sites. 2020, 242, 116758 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220	645	Research on CO2-N2O separation using flexible metal organic frameworks. 2020 , 251, 117311	5
New metalåbrganic frameworks derived from pyridine-3,5-dicarboxylic acid: structural diversity arising from the addition of templates into the reaction systems. 2020, 22, 2083-2096 Ficin encapsulated in mesoporous metal-organic frameworks with enhanced peroxidase-like activity and colorimetric detection of glucose. 2020, 233, 118195 640 Porous Aromatic Melamine Schiff Bases as Highly Efficient Media for Carbon Dioxide Storage. 2020, 8, 17 639 Stable d10 MetalåDrganic Framework Exhibiting Bifunctional Properties of Photocatalytic Hydrogen and Oxygen Evolution. 2020, 3, 2983-2988 638 Raman and FTIR spectroscopic study on the formation of the isomers MIL-68(Al) and MIL-53(Al) 24 637 Synthesis and characterization of amino and cyano-functionalized zinc-terephthalate metalåBrganic frameworks for loading of piroxicam drug. 2020, 74, 2287-2296 638 Hierarchical and scalable integration of nanostructures for energy and environmental applications: a review of processing, devices, and economic analyses. 2020, 4, 012002 635 Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020, 181, 114463 634 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 633 High styrene/ethylbenzene selectivity in a metal-organic framework with coordinatively unsaturated cobalt(II) sites. 2020, 242, 116758 634 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220 635 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	644		14
arising from the addition of templates into the reaction systems. 2020, 22, 2083-2096 Ficin encapsulated in mesoporous metal-organic frameworks with enhanced peroxidase-like activity and colorimetric detection of glucose. 2020, 233, 118195 Porous Aromatic Melamine Schiff Bases as Highly Efficient Media for Carbon Dioxide Storage. 2020, 8, 17 Stable d10 MetalâDrganic Framework Exhibiting Bifunctional Properties of Photocatalytic Hydrogen and Oxygen Evolution. 2020, 3, 2983-2988 Raman and FTIR spectroscopic study on the formation of the isomers MIL-68(AI) and MIL-53(AI) 2020, 10, 7336-7348 Synthesis and characterization of amino and cyano-functionalized zinc-terephthalate metalâDrganic frameworks for loading of piroxicam drug. 2020, 74, 2287-2296 Hierarchical and scalable integration of nanostructures for energy and environmental applications: a review of processing, devices, and economic analyses. 2020, 4, 012002 635 Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020, 181, 114463 11 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 633 High styrene/ethylbenzene selectivity in a metal-organic framework with coordinatively unsaturated cobalt(II) sites. 2020, 242, 116758 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	643		5
activity and colorimetric detection of glucose. 2020, 233, 118195 640 Porous Aromatic Melamine Schiff Bases as Highly Efficient Media for Carbon Dioxide Storage. 2020, 8, 17 639 Stable d10 MetaláDrganic Framework Exhibiting Bifunctional Properties of Photocatalytic Hydrogen and Oxygen Evolution. 2020, 3, 2983-2988 638 Raman and FTIR spectroscopic study on the formation of the isomers MIL-68(Al) and MIL-53(Al) 24 637 Synthesis and characterization of amino and cyano-functionalized zinc-terephthalate metaláBrganic frameworks for loading of piroxicam drug. 2020, 74, 2287-2296 638 Hierarchical and scalable integration of nanostructures for energy and environmental applications: a review of processing, devices, and economic analyses. 2020, 4, 012002 636 Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020, 181, 114463 637 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 638 High styrene/ethylbenzene selectivity in a metal-organic framework with coordinatively unsaturated cobalt(II) sites. 2020, 242, 116758 639 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220 630 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	642		5
Stable d10 MetalâDrganic Framework Exhibiting Bifunctional Properties of Photocatalytic Hydrogen and Oxygen Evolution. 2020, 3, 2983-2988 Raman and FTIR spectroscopic study on the formation of the isomers MIL-68(Al) and MIL-53(Al) 224 Synthesis and characterization of amino and cyano-functionalized zinc-terephthalate metalâDrganic frameworks for loading of piroxicam drug. 2020, 74, 2287-2296 3 Hierarchical and scalable integration of nanostructures for energy and environmental applications: a review of processing, devices, and economic analyses. 2020, 4, 012002 63 Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020, 181, 114463 11 634 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 633 High styrene/ethylbenzene selectivity in a metal-organic framework with coordinatively unsaturated cobalt(II) sites. 2020, 242, 116758 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	641		6
Hydrogen and Oxygen Evolution. 2020, 3, 2983-2988 Raman and FTIR spectroscopic study on the formation of the isomers MIL-68(Al) and MIL-53(Al) 24 Synthesis and characterization of amino and cyano-functionalized zinc-terephthalate metalâūrganic frameworks for loading of piroxicam drug. 2020, 74, 2287-2296 Hierarchical and scalable integration of nanostructures for energy and environmental applications: a review of processing, devices, and economic analyses. 2020, 4, 012002 635 Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020, 181, 114463 11 634 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 633 High styrene/ethylbenzene selectivity in a metal-organic framework with coordinatively unsaturated cobalt(II) sites. 2020, 242, 116758 9 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	640		9
24 2020, 10, 7336-7348 21 224 23 Synthesis and characterization of amino and cyano-functionalized zinc-terephthalate metalâBrganic frameworks for loading of piroxicam drug. 2020, 74, 2287-2296 3 Hierarchical and scalable integration of nanostructures for energy and environmental applications: a review of processing, devices, and economic analyses. 2020, 4, 012002 63 Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020, 181, 114463 11 634 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 633 High styrene/ethylbenzene selectivity in a metal-organic framework with coordinatively unsaturated cobalt(II) sites. 2020, 242, 116758 634 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220 635 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	639		5
637 frameworks for loading of piroxicam drug. 2020, 74, 2287-2296 638 Hierarchical and scalable integration of nanostructures for energy and environmental applications: a review of processing, devices, and economic analyses. 2020, 4, 012002 639 Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020, 181, 114463 630 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 630 High styrene/ethylbenzene selectivity in a metal-organic framework with coordinatively unsaturated cobalt(II) sites. 2020, 242, 116758 631 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220 632 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	638		24
a review of processing, devices, and economic analyses. 2020, 4, 012002 635 Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020, 181, 114463 636 Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 637 High styrene/ethylbenzene selectivity in a metal-organic framework with coordinatively unsaturated cobalt(II) sites. 2020, 242, 116758 638 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220 639 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	637		3
Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 High styrene/ethylbenzene selectivity in a metal-organic framework with coordinatively unsaturated cobalt(II) sites. 2020, 242, 116758 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	636		6
growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). 2020, 300, 110136 High styrene/ethylbenzene selectivity in a metal-organic framework with coordinatively unsaturated cobalt(II) sites. 2020, 242, 116758 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	635	Ultrasonication treatment enhances MOF surface area and gas uptake capacity. 2020 , 181, 114463	11
unsaturated cobalt(II) sites. 2020, 242, 116758 Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. 2020, 409, 213220 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	634		10
production from water splitting. 2020 , 409, 213220 Synthesis and structure of zinc(II) and cobalt(II) coordination polymers involving the elongated	633		9
	632		92
	631		5

630	Application of Various Metal-Organic Frameworks (MOFs) as Catalysts for Air and Water Pollution Environmental Remediation. 2020 , 10, 195	19
629	Sized-Controlled ZIF-8 Nanoparticle Synthesis from Recycled Mother Liquors: Environmental Impact Assessment. 2020 , 8, 2973-2980	23
628	Enhanced and Heteromolecular Guest Encapsulation in Nonporous Crystals of a Perfluorinated Triketonato Dinuclear Copper Complex. 2020 , 26, 5051-5060	6
627	Spectrofluorimetric Determination of Aflatoxin B1 in Winter Herbal Teas via Magnetic Solid Phase Extraction Method by using MetalâØrganic Framework (MOF) Hybrid Structures Anchored with Magnetic Nanoparticles. 2020 , 34, e5375	5
626	Impeding Catalyst Sulfur Poisoning in Aqueous Solution by MetalâDrganic Framework Composites. 2020 , 4, 1900890	9
625	Understanding How Ligand Functionalization Influences CO and N Adsorption in a Sodalite Metal-Organic Framework. 2020 , 32,	7
624	A Robust Aluminum Metal-Organic Framework with Temperature-Induced Breathing Effect. 2020 , 2, 220-226	5
623	Efficient SF6/N2 separation at high pressures using a zirconium-based mesoporous metalâBrganic framework. 2020 , 84, 179-184	12
622	Perovskite-related ReO3-type structures. 2020 , 5, 196-213	33
621	Metal-Organic Frameworks as Chemical Nanoreactors: Synthesis and Stabilization of Catalytically Active Metal Species in Confined Spaces. 2020 , 53, 520-531	45
620	A Metal-Organic-Framework-Derived (ZnCu)CdS Solid Solution as Efficient Photocatalyst for Hydrogen Evolution Reaction. 2020 , 12, 10261-10267	14
619	Ethylenediamine loading into a manganese-based metal-organic framework enhances water stability and carbon dioxide uptake of the framework. 2020 , 7, 191934	10
618	On the Universality of Capillary Condensation and Adsorption Hysteresis Phenomena in Ordered and Crystalline Mesoporous Materials. 2020 , 7, 2000184	10
617	Electrodeposition of pore-confined cobalt in metalâBrganic framework thin films toward electrochemical H2O2 detection. 2020 , 347, 136276	20
616	Role of Prenucleation Building Units in Determining MetalâDrganic Framework MIL-53(Al) Morphology. 2020 , 20, 3641-3649	5
615	Transitional MOFs: Exposing Metal Sites with Porosity for Enhancing Catalytic Reaction Performance. 2020 , 12, 23968-23975	11
614	MOFs-carbon hybrid nanocomposites in environmental protection applications. 2020 , 27, 16004-16018	18
613	Mechanochemical synthesis of MOFs. 2020 , 197-222	4

612	Carbohydrates in metal organic frameworks: Supramolecular assembly and surface modification for biomedical applications. 2020 , 445-465	3
611	Low Temperature Calorimetry Coupled with Molecular Simulations for an In-Depth Characterization of the Guest-Dependent Compliant Behavior of MOFs. 2020 , 32, 3489-3498	5
610	Structural Dynamics of An ELM-11 Framework Transformation Accompanied with Double-Step CO2 Gate sorption: An NMR Spin Relaxation Study. 2020 , 10, 328	O
609	Improved Predictive Tools for Structural Properties of Metal-Organic Frameworks. 2020 , 25,	2
608	Robust Atomistic Modeling of Materials, Organometallic, and Biochemical Systems. 2020 , 59, 15665-15673	93
607	Search for the shortest intermetallic TlTl contacts: Synthesis and characterization of Thallium(I) coordination polymers with several mono- and bis-cyanoximes. 2020 , 508, 119597	O
606	Controlling the rate of change of Ni dispersion in commercial catalyst by ALD overcoat during dry reforming of methane. 2020 , 45, 12835-12848	7
605	Preparation and characterization of metal-organic framework /microencapsulated phase change material composites for indoor hygrothermal control. 2020 , 31, 101345	10
604	New Chiral Hydrogen-Bonded Organic Framework Based on Substituted Diarylacetylene Dicarboxylic Acid. 2020 , 20, 3713-3721	3
603	Photogenerated Charge Separation in a CdSe Nanocluster Encapsulated in a MetalâDrganic Framework for Improved Photocatalysis. 2020 , 124, 8504-8513	7
602	Enteric pH responsive cargo release from PDA and PEG coated mesoporous silica nanoparticles: a comparative study in 2020 , 10, 11716-11726	6
601	Iron and chromium MOFs as sustainable catalysts for transfer hydrogenation of carbonyl compounds and biomass conversions. 2020 , 44, 8223-8231	13
600	Impact of dehydration and mechanical amorphization on the magnetic properties of Ni(II)-MOF-74. 2020 , 8, 7132-7142	9
599	A Review on Current Development of Membranes for Oil Removal from Wastewaters. 2020 , 10,	22
598	Multicomponent transport model-based scaling up of long-term adsorptive filtration of MOF incorporated mixed matrix hollow fiber membrane: Treatment of textile effluent. 2021 , 403, 125103	11
597	Thermolytic Conversion of Copper (II) Based Coordination Polymer into Copper Oxideâtarbon Nanocomposite for Selective Removal of Cd (II) from Aqueous Solution. 2021 , 32, 319-326	1
596	Metal-organic layers as reusable solid fluorination reagents and heterogeneous catalysts for aromatic fluorination. 2021 , 14, 473-478	9
595	Large anisotropic negative thermal expansion in Cu-TDPAT metal-organic framework: A combined in situ X-ray diffraction and DRIFTS study. 2021 , 14, 404-410	4

(2021-2021)

594	Kinetic and thermodynamic studies of neutral dye removal from water using zirconium metal-organic framework analogues. 2021 , 258, 123924	19
593	Selective Formation of Polyaniline Confined in the Nanopores of a Metal-Organic Framework for Supercapacitors. 2021 , 27, 3560-3567	10
592	MOF based engineered materials in water remediation: Recent trends. 2021 , 403, 123605	91
591	Template-directed hierarchical copper(II)-organophosphonate compounds: Syntheses, crystal structures, magnetic and luminescence properties. 2021 , 1224, 129027	4
590	Effect of pyridyl donors from organic ligands versus metalloligands on material design. 2021 , 8, 1334-1373	7
589	Comparison of Arsenate Adsorption from Neutral pH Aqueous Solutions Using Two Different Iron-Trimesate Porous Solids: Kinetics, Equilibrium Isotherms, and Synchrotron X-Ray Absorption Experiments. 2021 , 31, 1185-1194	2
588	Metal-organic frameworks as a versatile platform for radionuclide management. 2021, 427, 213473	25
587	Bifunctional metal-organic frameworks for the hydrogenation of nitrophenol using methanol as the hydrogen source. 2021 , 19, 794-800	2
586	Recent advances in metal-organic frameworks for the removal of heavy metal oxoanions from water. 2021 , 407, 127221	36
585	3D, eco-friendly metal-organic frameworks@carbon nanotube aerogels composite materials for removal of pesticides in water. 2021 , 401, 123718	48
584	Kinetic separation of C4 olefins using Y-fum-fcu-MOF with ultra-fine-tuned aperture size. 2021 , 413, 127388	6
583	An Imine-Linked Metal-Organic Framework as a Reactive Oxygen Species Generator. 2021 , 60, 2534-2540	22
582	The state of the field: from inception to commercialization of metal-organic frameworks. 2021 , 225, 9-69	22
581	Insights into methyl orange adsorption behavior on a cadmium zeolitic-imidazolate framework Cd-ZIF-8: A joint experimental and theoretical study. 2021 , 14, 102897	10
580	Highly dynamic 1D coordination polymers for adsorption and separation applications. 2021 , 430, 213661	10
579	Chiral porous organic frameworks and their application in enantioseparation. 2021 , 13, 8-33	8
578	Recent advances in bimetallic metal-organic framework as a potential candidate for supercapacitor electrode material. 2021 , 430, 213660	35
577	Metal-organic framework-based photocatalysts for carbon dioxide reduction to methanol: A review on progress and application. 2021 , 43, 101374	17

576	Prospects for a green methanol thermo-catalytic process from CO2 by using MOFs based materials: A mini-review. 2021 , 43, 101361	25
575	Kinetic Barriers and Microscopic Mechanisms of Noble Gas Adsorption by Nanoporous EMg(BH) Obtained by Means of Sub-Second X-Ray Diffraction. 2021 , 60, 5250-5256	1
574	Can we predict materials that can be synthesised?. 2020 , 12, 830-840	14
573	Large Single Crystals of Two-Dimensional EConjugated Metal-Organic Frameworks via Biphasic Solution-Solid Growth. 2021 , 7, 104-109	16
572	Recent advances in adsorbents for the removal of phthalate esters from water: Material, modification, and application. 2021 , 409, 128127	9
571	Fabrication of lead iodide perovskite solar cells by incorporating zirconium, indium and zinc metal-organic frameworks. 2021 , 214, 138-148	5
57°	Highly selective CO2 uptake in Calix[4]arene compounds immobilized on silica gel. 2021 , 417, 128115	3
569	An Imine-Linked MetalâDrganic Framework as a Reactive Oxygen Species Generator. 2021 , 133, 2564-2570	3
568	Post-combustion carbon capture. 2021 , 138, 110490	37
567	MetalâBrganic frameworks and their derivatives for electrically-transduced gas sensors. 2021 , 426, 213479	45
566	A research on the cadmium ions adsorption of Sulfhydryl- and sulfo-functionalized UIO-66 with silica layer from water. 2021 , 9, 104621	5
565	CoAl LDH@Ni-MOF-74 S-Scheme Heterojunction for Efficient Hydrogen Evolution. 2021 , 27, 127-138	19
564	Methods and Diversity in the Synthesis of Metal-Organic Frameworks. 2021 , 976-1020	1
563	Chemiresistive Sensor Based on Redox-Active Porous Coordination Networks. 2021 , 43-60	
562	Synthesis of MOF-5 nanostructures by laser ablation method in liquid and evaluation of its properties. 2021 , 32, 3819-3833	8
561	Expanding energy prospects of metal-organic frameworks. 2021 , 139-151	
560	Kinetic Barriers and Microscopic Mechanisms of Noble Gas Adsorption by Nanoporous EMg(BH4)2 Obtained by Means of Sub-Second X-Ray Diffraction. 2021 , 133, 5310-5316	
559	Visualizing the {110} surface structure of equilibrium-form ZIF-8 crystals by low-dose Cs-corrected TEM. 2021 , 13, 13215-13219	1

558	A rare 4-fold interpenetrated metal-organic framework constructed from an anionic indium-based node and a cationic dicopper linker. 2021 , 50, 6631-6636	
557	Cobalt-Based Metal Organic Frameworks as Solids Catalysts for Oxidation Reactions. 2021 , 11, 95	4
556	Selective guest inclusion of linear C6 hydrocarbons in a Zn(II) 1D coordination polymer. 2021 , 45, 12448-1245	2 1
555	Breaking the upper bound of siloxane uptake: metalâBrganic frameworks as an adsorbent platform.	3
554	Exploring the Effect of Iron Metal-Organic Framework Particles in Polylactic Acid Membranes for the Azeotropic Separation of Organic/Organic Mixtures by Pervaporation. 2021 , 11,	11
553	Double Cationization Approach toward Ionic MetalâDrganic Frameworks with a High Bromide Content for CO2 Cycloaddition to Epoxides. 2021 , 9, 1880-1890	13
552	Amino and triazole-containing metal-organic frameworks for highly efficient CO fixation. 2021 , 57, 10803-108	806
551	Incorporation of homogeneous organometallic catalysts into metalâBrganic frameworks for advanced heterogenization: a review. 2021 , 11, 5734-5771	10
550	Collective structural properties of embedded molecular motors in functionalized metal-organic frameworks. 2021 , 23, 4728-4735	2
549	Efficient electrochemical synthesis of a manganese-based metalåBrganic framework for H2 and CO2 uptake. 2021 , 23, 1220-1227	9
548	Polyhedral metaläßrganic framework monolayer colloidal crystals with sharpened and crystal facet-dependent selectivity for organic vapor sensing. 2021 , 9, 5379-5386	1
547	Permeable metal-organic frameworks for fuel (gas) storage applications. 2021 , 111-126	
546	An iridium-decorated metalâBrganic framework for electrocatalytic oxidation of nitrite. 2021 , 122, 106899	5
545	Enhanced Adsorption and Separation of Xenon over Krypton via an Unsaturated Calcium Center in a Metal-Organic Framework. 2021 , 60, 1506-1512	7
544	A microporous Ce-based MOF with the octahedron cage for highly selective adsorption towards xenon over krypton 2021 , 11, 30918-30924	1
543	Alkylamino-terephthalate ligands stabilize 8-connected Zr4+ MOFs with highly efficient sorption for toxic Se species. 2021 , 9, 3379-3387	6
542	Metal-Organic Frameworks for Catalytic Applications. 2021 , 228-259	O
541	Porous Coordination Polymers/Metal-Organic Frameworks. 2021 , 314-327	

540 Metal-Organic Frameworks Derived From Multitopic Ligands: Structural Aspects. **2021**, 1021-1054

539	Photocatalysis by metal-organic frameworks. 2021 , 543-559	1
538	Encapsulating NHBr in a metal organic framework: achieving remarkable proton conduction in a wide relative humidity range. 2021 , 50, 15321-15326	
537	One-pot mechanochemical synthesis to encapsulate functional guests into a metal-organic framework for proton conduction. 2021 , 57, 8933-8936	O
536	Electron Beam Patterning of Metalâ@rganic Frameworks. 2021 , 33, 754-760	7
535	Highly selective fluorescent turn-on-off sensing of OH, Al and Fe ions by tuning ESIPT in metal organic frameworks and mitochondria targeted bio-imaging 2021 , 11, 27787-27800	5
534	Ligand-mediated strategy for the fabrication of hollow Fe-MOFs and their derived Fe/NC nanostructures with an enhanced oxygen reduction reaction. 2021 , 23, 528-532	O
533	Cathodic synthesis of a Cu-catecholate metalâBrganic framework. 2021 , 23, 1828-1835	1
532	Sustainable Approaches for the Treatment of Industrial Wastewater Using Metal-Organic Frame Works. 2021 , 463-493	
531	Engineering metalâBrganic frameworks for adsorption-based gas separations: from process to atomic scale.	9
530	Metal-Organic Frameworks for Liquid Phase Applications. 2021 , 8, 2003143	8
529	Crystals springing into action: metal-organic framework CUK-1 as a pressure-driven molecular spring. 2021 , 12, 5682-5687	3
528	MetalâBrganic framework. 2021 , 279-387	2
527	Porous liquids âlFuture for CO2 capture and separation?. 2021 , 4, 100070	6
526	MetalâDrganic Frameworks (MOFs) for CO2 Cycloaddition Reactions. 2021 , 407-427	1
525	Fabrication of a Z-Scheme Heterojunction Polyhedral-Shaped BiOIO3/MIL-53(Fe) Photocatalyst for Enhancing Gaseous Hg0 Removal. 2021 , 35, 3252-3265	6
524	Recent Progress in 2D-Nanomaterial-Based Triboelectric Nanogenerators. 2021 , 31, 2009994	18
523	Recent advances on thermal energy storage using metal-organic frameworks (MOFs). 2021 , 34, 102179	16

522	Two-Dimensional Metal-Organic Framework Materials: Synthesis, Structures, Properties and Applications. 2021 , 121, 3751-3891	131
521	Network-Forming Liquids from Metal-Bis(acetamide) Frameworks with Low Melting Temperatures. 2021 , 143, 2801-2811	20
520	Precisely Controlled Reproducible Synthesis of Palladium Nanoparticles inside Metal-Organic Frameworks with H2 Gas as Reductant: Effects of Framework Crystallinity and H2 Gas Pressure. 2021 , 50, 244-247	1
519	Hybrid Perovskites, Metal-Organic Frameworks, and Beyond: Unconventional Degrees of Freedom in Molecular Frameworks. 2021 , 54, 1288-1297	8
518	A Flexible and Porous Ferrocene-Based Gallium MOF with MIL-53 Architecture. 2021, 2021, 713-719	1
517	Coordination Geometry Changes in Amorphous Cyanide-Bridged Metal-Organic Frameworks upon Water Adsorption. 2021 , 60, 3338-3344	3
516	Experimental study on the structural stability of zeolite imidazolate framework-8 in the alkaline solution. 2021 , 11, 025308	
515	Effective CH4/N2 separation using NU-1000 at high pressures. 2021 , 74, 216-225	1
514	Performance Fabrics Obtained by Growth of Metal-Organic Frameworks in Electrospun Fibers. 2021 , 13, 12491-12500	5
513	Constructing a Resistive Gas Sensor Based on the Highly Stable Mil-53(Fe)/Ag/CNT Ternary Nanocomposite for Sensing Polar Volatile Organic Compounds Such as Methanol. 2021 , 76, 399-412	1
512	MetalâBrganic frameworks for biogas upgrading: Recent advancements, challenges, and future recommendations. 2021 , 22, 100925	6
511	In vitro renal toxicity evaluation of copper-based metal-organic framework HKUST-1 on human embryonic kidney cells. 2021 , 273, 116528	5
510	One-Pot Preparation of Peptide-Doped Metal-Amino Acid Framework for General Encapsulation and Targeted Delivery. 2021 , 13, 11195-11204	9
509	Photoinduced Enhancement of Uranium Extraction from Seawater by MOF/Black Phosphorus Quantum Dots Heterojunction Anchored on Cellulose Nanofiber Aerogel. 2021 , 31, 2100106	39
508	Defective Hierarchical Pore Engineering of a Zn-Ni MOF by Labile Coordination Bonding Modulation. 2021 , 60, 5122-5130	5
507	Ultrapermeable Composite Membranes Enhanced Via Doping with Amorphous MOF Nanosheets. 2021 , 7, 671-680	7
506	MIL-101(Cr), an Efficient Heterogeneous Catalyst for One Pot Synthesis of 2,4,5-tri Substituted Imidazoles under Solvent Free Conditions. 2021 , 11,	4
505	Structure and properties of fluorinated and non-fluorinated Ba-coordination polymers âlthe position of fluorine makes the difference. 2021 , 647, 1014-1024	2

504	Composite fast scintillators based on high-Z fluorescent metalâBrganic framework nanocrystals. 2021 , 15, 393-400	24
503	Crystal structure of poly[(Z-aqua-tetraaqua-(Z-glutarato-AO,O?:O?:O??)-(Z-glutarato-BO:O,O?:O?:O??:O???)distrontium(II)], C10H22O13Sr2. 2021 , 236, 705-707	
502	Manipulating solvent and solubility in the synthesis, activation, and modification of permanently porous coordination cages. 2021 , 430, 213679	8
501	Crystal structure of 1H-imidazol-3-ium poly[aqua-(¼-glutarato-5O,O?:O?:O??,O???:O???)-(nitrato-5O,O?)strontium(II)], C8H13N3O8Sr. 2021 , 236, 675-677	
500	Amino Acids and Peptides Organocatalysts: A Brief Overview on Its Evolution and Applications in Organic Asymmetric Synthesis. 2021 , 8, 126-146	3
499	Ce-MOF derived ceria: Insights into the Na-ion storage mechanism as a high-rate performance anode material. 2021 , 22, 100935	5
498	Catalytic nanozymes for central nervous system disease. 2021 , 432, 213751	15
497	Aqueous-Phase Nanomolar Detection of Dichromate by a Recyclable Cd(II) MetalâDrganic Framework. 2021 , 21, 2680-2689	1
496	The Relationship Between Structure and Electric Property. 669-704	
495	The Relationship Between Structure and Electric Property. 725-776	
494	The Relationship Between Structure and Electric Property. 704-725	
493	Cerium-Based Metal-Organic Framework Nanocrystals Interconnected by Carbon Nanotubes for Boosting Electrochemical Capacitor Performance. 2021 , 13, 16418-16426	14
492	Nanoparticles as Potential Novel Therapies for Urinary Tract Infections. 2021, 11, 656496	3
491	Improving the synthesis process of chromium benzenedicarboxylate, MIL-101(Cr), by a microwave pre-step for CO2 adsorption. 2021 , 18, 2283-2289	
490	Chirality Remote Control in Nanoporous Materials by Circularly Polarized Light. 2021, 143, 7059-7068	9
489	A Tetradentate Phosphonate Ligand-based Ni-MOF as a Support for Designing High-performance Proton-conducting Materials. 2021 , 16, 1562-1569	6
488	Unconventional inorganic precursors determine the growth of metal-organic frameworks. 2021 , 434, 213804	26
487	Synthesis, structural elucidation, thermal and antimicrobial studies of a heteroleptic Cu(II) complex incorporating hydrogen phthalate and N,N,N?,N?-tetramethylethylenediamine. 2021 , 74, 1965-1977	

486	Novel pervaporation mixed matrix membranes based on polyphenylene isophtalamide modified by metalâBrganic framework UiO-66(NH2)-EDTA for highly efficient methanol isolation. 2021 , 263, 118370	7
485	Polymer supported copper complexes/nanoparticles for treatment of environmental contaminants. 2021 , 330, 115668	6
484	Molecular Insight into the Swelling of a MOF: A Force-Field Investigation of Methanol Uptake in MIL-88B(Fe)â[dl. 2021 , 125, 12837-12847	5
483	A Showcase of Green Chemistry: Sustainable Synthetic Approach of Zirconium-Based MOF Materials. 2021 , 27, 9967-9987	5
482	Zeolitic imidazolate framework membranes for gas separations: Current state-of-the-art, challenges, and opportunities. 2021 , 98, 17-41	7
481	Sustainable functionalized metal-organic framework NH-MIL-101(Al) for CO separation under cryogenic conditions. 2021 , 279, 116924	7
480	Integrating Conductive MetalâDrganic Framework with Graphene Oxide to Highly Sensitive Platform for Electrochemical Sensing. 2021 , 8, 2100586	3
479	MIL-160 as an Adsorbent for Atmospheric Water Harvesting. 2021 , 14, 3586	5
478	Characterization of Nanoporous Materials. 2021 , 12, 137-162	6
477	Cuboctahedral [In(EOH)(NO)(Imtb)]MOF with Atypical Pyramidal Nitrate Ion in SBU: Lewis Acid-Base Assisted Catalysis and Nanomolar Sensing of Picric Acid. 2021 , 60, 9238-9242	4
476	Metal-Organic Framework Nanoparticle Technology for Water Remediation: Road to a Sustainable Ecosystem. 2021 , 289-320	
475	Opportunities and Challenges in Precise Synthesis of Transition Metal Single-Atom Supported by 2D Materials as Catalysts toward Oxygen Reduction Reaction. 2021 , 31, 2103558	15
474	A review on application of activated carbons for carbon dioxide capture: present performance, preparation, and surface modification for further improvement. 2021 , 28, 43329-43364	13
473	Metal-organic frameworks for energy conversion and water harvesting: A bridge between thermal engineering and material science. 2021 , 84, 105946	44
472	Crystal structure, DNA binding, cytotoxicity and anticancer ability of Zn(II) complex constructed by 2-(1,2,4)triazol-1-yl-isonicotinic acid. 2021 , 128, 108571	3
471	Screening Metal-Organic Frameworks for Separation of Binary Solvent Mixtures by Compact NMR Relaxometry. 2021 , 26,	O
470	Ultrahigh flexoelectric effect of 3D interconnected porous polymers: modelling and verification. 2021 , 151, 104396	9
469	Deep Desulfurization with Record SO Adsorption on the Metal-Organic Frameworks. 2021 , 143, 9040-9047	24

468	Improvement of production efficiency of spray-synthesized HKUST-1. 2021,	O
467	Enhancing water stability in Co(II) coordination polymers from their structural transformation by temperature-controlling and their dye degradation property. 2021 , 298, 122110	O
466	Inorganic-based adsorbent materials for the removal of gaseous pollutants. 1	
465	Highly Efficient Removal of Neonicotinoid Insecticides by Thioether-Based (Multivariate) Metal-Organic Frameworks. 2021 , 13, 28424-28432	9
464	Snapshots of Postsynthetic Modification in a Layered Metal-Organic Framework: Isometric Linker Exchange and Adaptive Linker Installation. 2021 , 60, 11756-11763	1
463	25 Jahre retikulfe Chemie. 2021 , 133, 24142	O
462	Photodegradation of Brilliant Green Dye by a Zinc bioMOF and Crystallographic Visualization of Resulting CO. 2021 , 26,	1
461	Pressure-Induced Loss of Long-Range Structural Order in MFM-300(Al): An X-ray Diffraction and Raman Spectroscopic Study. 2021 , 125, 15472-15478	1
460	Sequential Oriented Growth of Zr-fcu-MOFs on Different Crystal Facets of MIL-96(Al). 2021 , 21, 4571-4578	O
459	Characterization of a MetalâDrganic Framework Zr6O8 Node-Supported Atomically Dispersed Iridium Catalyst for Ethylene Hydrogenation by X-ray Absorption Near-Edge Structure and Infrared Spectroscopies. 2021 , 125, 16995-17007	O
458	MetalâDrganic Framework UiO-68 and Its Derivatives with Sufficiently Good Properties and Performance Show Promising Prospects in Potential Industrial Applications. 2021 , 21, 4780-4804	5
457	Differentiation of Epoxide Enantiomers in the Confined Spaces of an Homochiral Cu(II) Metal-Organic Framework by Kinetic Resolution. 2021 , 27, 16956-16965	
456	Density Functional Theory Study of the Structure of the Pillared Hofmann Compound Ni(3-Methyl-4,4?-bipyridine)[Ni(CN)4] (Ni-BpyMe or PICNIC-21). 2021 , 125, 15882-15889	O
455	Advanced/hybrid thermal energy storage technology: material, cycle, system and perspective. 2021 , 145, 111088	17
454	Metal-Organic Framework-Derived Trimetallic Nanocomposites as Efficient Bifunctional Oxygen Catalysts for Zinc-Air Batteries. 2021 , 13, 33209-33217	3
453	25 Years of Reticular Chemistry. 2021 , 60, 23946-23974	50
452	ReviewâApplication of Photoluminescent and Electroluminescent Metal-Organic Frameworks in White Light-Emitting Diodes. 2021 , 10, 086009	1
451	Crystalline Sponge Method: X-ray Structure Analysis of Small Molecules by Post-Orientation within Porous Crystalsâ P rinciple and Proof-of-Concept Studies. 2021 , 133, 25408	O

450	Facile and Rapid Room-Temperature Electrosynthesis and Controlled Surface Growth of Fe-MIL-101 and Fe-MIL-101-NH. 2021 , 7, 1427-1433	О
449	Rational design of two novel metalâÐrganic frameworks as photocatalysts for degradation of organic dyes and their derived materials as electrocatalysts for OER. 2021 , 523, 120416	3
448	Adsorption of Carbon Dioxide for Post-combustion Capture: A Review. 2021 , 35, 12845-12868	33
447	A green and template-free electropolymerization of imipramine. The decoration of sponge-like polymer film with gold nanoparticles. 2021 , 894, 115340	2
446	Hybrid Porous Crystalline Materials from Metal Organic Frameworks and Covalent Organic Frameworks. 2021 , 8, e2101883	18
445	Mechanistic Consideration for the Selective Inclusion of Disubstituted Benzene Isomers with p-tert-Butylcalix[4]arene Crystals. 2021 , 21, 5006-5016	O
444	Amino-functionalized zirconium and cerium MOFs: Catalysts for visible light induced aerobic oxidation of benzylic alcohols and microwaves assisted N-Alkylation of amines. 2021 , 623, 118287	5
443	Surviving Under Pressure: The Role of Solvent, Crystal Size, and Morphology During Pelletization of Metal-Organic Frameworks. 2021 ,	4
442	Cobalt-benzene-1,4-dicarboxylic acid coordination polymer for efficient removal of anionic and cationic dyes. 1-11	1
441	Crystalline Sponge Method: X-ray Structure Analysis of Small Molecules by Post-Orientation within Porous Crystals-Principle and Proof-of-Concept Studies. 2021 , 60, 25204-25222	10
441		10
	Porous Crystals-Principle and Proof-of-Concept Studies. 2021 , 60, 25204-25222 Stepwise Observation of Iodine Diffusion in a Flexible Coordination Network Having Dual	
440	Porous Crystals-Principle and Proof-of-Concept Studies. 2021 , 60, 25204-25222 Stepwise Observation of Iodine Diffusion in a Flexible Coordination Network Having Dual Interactive Sites. 2021 , 60, 13727-13735	1
440	Porous Crystals-Principle and Proof-of-Concept Studies. 2021, 60, 25204-25222 Stepwise Observation of Iodine Diffusion in a Flexible Coordination Network Having Dual Interactive Sites. 2021, 60, 13727-13735 Improving Reproducibility in Hydrogen Storage Material Research. 2021, 22, 2141-2157 Sonocrystallisation of ZIF-8 in water with high excess of ligand: Effects of frequency, power and	1
440 439 438	Porous Crystals-Principle and Proof-of-Concept Studies. 2021, 60, 25204-25222 Stepwise Observation of Iodine Diffusion in a Flexible Coordination Network Having Dual Interactive Sites. 2021, 60, 13727-13735 Improving Reproducibility in Hydrogen Storage Material Research. 2021, 22, 2141-2157 Sonocrystallisation of ZIF-8 in water with high excess of ligand: Effects of frequency, power and sonication time. 2021, 76, 105616 Defect Engineering in Metal-Organic Frameworks as Futuristic Options for Purification of	1 2 1
440 439 438 437	Porous Crystals-Principle and Proof-of-Concept Studies. 2021, 60, 25204-25222 Stepwise Observation of Iodine Diffusion in a Flexible Coordination Network Having Dual Interactive Sites. 2021, 60, 13727-13735 Improving Reproducibility in Hydrogen Storage Material Research. 2021, 22, 2141-2157 Sonocrystallisation of ZIF-8 in water with high excess of ligand: Effects of frequency, power and sonication time. 2021, 76, 105616 Defect Engineering in Metal-Organic Frameworks as Futuristic Options for Purification of Pollutants in an Aqueous Environment. 2021, 9, 673738 Fundamental features of mesoporous functional materials influencing the efficiency of removal of	1 2 1
440 439 438 437 436	Porous Crystals-Principle and Proof-of-Concept Studies. 2021, 60, 25204-25222 Stepwise Observation of Iodine Diffusion in a Flexible Coordination Network Having Dual Interactive Sites. 2021, 60, 13727-13735 Improving Reproducibility in Hydrogen Storage Material Research. 2021, 22, 2141-2157 Sonocrystallisation of ZIF-8 in water with high excess of ligand: Effects of frequency, power and sonication time. 2021, 76, 105616 Defect Engineering in Metal-Organic Frameworks as Futuristic Options for Purification of Pollutants in an Aqueous Environment. 2021, 9, 673738 Fundamental features of mesoporous functional materials influencing the efficiency of removal of VOCs from aqueous systems: A review. 2021, 784, 147121 Extra-framework zirconium clusters in metal organic framework DUT-67 controlled by the choice of	1 2 1 3

432	A Review on Mechanical Models for Cellular Media: Investigation on Material Characterization and Numerical Simulation. 2021 , 13,	1
431	Adsorption of Carbon Dioxide, Methane, and Nitrogen on Zn(dcpa) Metal-Organic Framework. 2021 , 14, 5598	Ο
430	Nanostructured Substrates as Matrices for Surface Assisted Laser Desorption/Ionization Mass Spectrometry: A Progress Report from Material Research to Biomedical Applications 2021 , 5, e2100762	8
429	Charge manipulation in metalâBrganic frameworks: Toward designer functional molecular materials.	2
428	Highlighting the structure âldirecting capability of the functional groups of angular dicarboxylic ligands: New 2-dimensional Cu2+ MOFs from analogous synthetic routes. 2021 , 205, 115299	1
427	Vapor Deposition-Prepared MIL-100(Cr)- and MIL-101(Cr)-Supported Iron Catalysts for Effectively Removing Organic Pollutants from Water. 2021 , 6, 25311-25322	1
426	UIO66-membranized SAPO-34 Pt catalyst for enhanced carbon dioxide conversion efficiency. 2021 , 21, 100781	5
425	Metal-Organic Frameworks as Versatile Media for Polymer Adsorption and Separation. 2021 , 54, 3593-3603	6
424	Simultaneous improvement to solubility and bioavailability of active natural compound isosteviol using cyclodextrin metal-organic frameworks. 2021 , 11, 2914-2923	2
423	Polydopamine-coated UiO-66 nanoparticles loaded with perfluorotributylamine/tirapazamine for hypoxia-activated osteosarcoma therapy. 2021 , 19, 298	3
422	Predicting the Conformation of Organic Catalysts Grafted on Silica Surfaces with Different Numbers of Tethering Chains: The Silicopodality Concept. 2021 , 125, 21199-21210	1
421	Highly stable Li+ selective electrode with Metal-Organic Framework as ion-to-electron transducer. 2021 , 350, 130799	O
420	Nano-MOF-5 (Zn) Derived Porous Carbon as Support Electrocatalyst for Hydrogen Evolution Reaction. 2021 , 13, 4342	4
419	Strain-Controlled Spin Transition in Heterostructured Metal-Organic Framework Thin Film. 2021 , 143, 16128-16135	2
418	Application of metalaBrganic framework for the adsorption and detection of food contamination. 2021 , 143, 116384	6
417	Therapeutic agent-based infinite coordination polymer nanomedicines for tumor therapy. 2021 , 445, 214059	5
416	Adsorptive recovery of precious metals from aqueous solution using nanomaterials âlʿA critical review. 2021 , 445, 214072	10
415	Long-Range Alignment of Liquid Crystalline Small Molecules on Metal-Organic Framework Micropores by Physical Anchoring. 2021 ,	

414	Metal organic frameworks as nanomaterials for analysis of toxic metals in food and environmental applications. 2021 , 143, 116417	9
413	Insight into the syntheses, performances and mechanisms of organically modified adsorbents for mercury ion sensing and removal. 2021 , 9, 105833	1
412	Macro-microporous zeolitic imidazole framework-8/cellulose aerogel for semi-automated pipette tip solid phase extraction of fluoroquinolones in water. 2021 , 1184, 338984	1
411	Antimicrobial MOFs. 2021 , 446, 214121	23
410	Remediation potentials of composite metal-organic frameworks (MOFs) for dyes as water contaminants: A comprehensive review of recent literatures. 2021 , 16, 100568	2
409	Synthesis and adsorption properties investigation of Fe3O4@ZnAl-LDH@MIL-53(Al) for azole fungicides removal from environmental water. 2021 , 276, 119282	11
408	Cu(I)-incorporation strategy for developing styrene selective adsorbents. 2021, 425, 130601	1
407	Adsorptive removal of dyes from wastewater using a metal-organic framework: A review. 2021 , 284, 131314	48
406	Recent progress in CoâBased metalâBrganic framework derivatives for advanced batteries. 2022 , 96, 262-284	9
405	A Review on Metal-Organic Frameworks: Synthesis and Applications. 2021 , 33, 245-252	1
404	Large-scale synthesis and Shaping of Metal-Organic Frameworks. 2021 , 33-54	
403	Multifunctionality of weak ferromagnetic porphyrin-based MOFs: selective adsorption in the liquid and gas phase. 2021 , 23, 4205-4213	
402	Tunable Electrical Properties of Redox-Active Porous Coordination Networks via Post-synthetic Modification. 2021 , 61-71	
401	Synthesis and applications of metal oxide derivatives of ZIF-67: a mini-review. 2021 , 75, 2253-2275	7
400	MOFs industrialization: a complete assessment of production costs. 2021 , 231, 326-341	16
399	Tuning the electrochemical and catalytic ORR performance of C60 by its encapsulation in ZIF-8: a solid-state analogue of dilute fullerene solution.	o
398	The synthesis and characterization of Zn(II)/Cd(II) based MOFs by a mixed ligand strategy: a Zn(II) MOF as a dual functional material for reversible dye adsorption and as a heterogeneous catalyst for the Biginelli reaction. 2021 , 5, 304-314	23
397	Peptide-Metal Frameworks with Metal Strings Guided by Dispersion Interactions. 2021 , 143, 644-648	12

396	How Molecular Modelling Tools Can Help in Mitigating Climate Change. 2021 , 181-220	О
395	Sequential single-crystal-to-single-crystal vapochromic inclusion in a nonporous coordination polymer: unravelling dynamic rearrangement for selective pyridine sensing. 2021 , 8, 2426-2432	4
394	Surface Area and Porosity of Co3(ndc)3(dabco) MetalâDrganic Framework and Its Methane Storage Capacity: A Combined Experimental and Simulation Study. 2021 , 125, 2411-2423	1
393	Revisiting molecular adsorption: unconventional uptake of polymer chains from solution into sub-nanoporous media. 2021 , 12, 12576-12586	5
392	Biomass as a source of adsorbents for CO2 capture. 2021 , 255-274	2
391	Crystal Engineering.	1
390	Acid and Base Resistant Zirconium Polyphenolate-Metalloporphyrin Scaffolds for Efficient CO Photoreduction. 2018 , 30, 1704388	131
389	Sinter-Resistant Platinum Catalyst Supported by MetalâDrganic Framework. 2018 , 130, 921-925	2
388	Crystal engineering of porous coordination networks for C3 hydrocarbon separation. 2021 , 2, 38-55	16
387	Environmentally Friendly Enzyme Immobilization on MOF Materials. 2020 , 2100, 271-296	3
386	Hybrid Adsorbents for Dye Removal from Wastewater. 2021 , 405-451	3
385	The Amazing Chemistry of Metal-Organic Frameworks. 2017 , 339-369	1
384	Hybrid Glasses: From Metal Organic Frameworks and Co-ordination Polymers to Hybrid Organic Inorganic Perovskites. 2019 , 719-770	2
383	Porous Coordination Polymers Towards Gas Technology. 2009 , 51-86	15
382	Metal-Organic Frameworks (MOFs) for CO2 Capture. 2014 , 79-113	1
381	Cyclophane-Based Estacked Polymers. 2014 , 151-184	1
380	Topochemical Polymerizations and Crystal Cross-Linking of Metal Organic Frameworks. 2015 , 517-530	2
379	Multi-component hybrid soft ionogels for photoluminescence tuning and sensing organic solvent vapors. 2018 , 513, 133-140	19

(2020-2018)

378	1D helical cadmium coordination polymers containing hydrazide ligand: The role of solvent and molar ratio. 2018 , 1156, 534-543	7
377	Superparamagnetic MOF@GO Ni and Co based hybrid nanocomposites as efficient water pollutant adsorbents. 2020 , 738, 139213	19
376	The prominent photocatalytic activity with the charge transfer in the organic ligand for [Zn4O(BDC)3] MOF-5 decorated Ag3PO4 hybrids. 2020 , 250, 117142	15
375	Headspace solid-phase microextraction of semi-volatile ultraviolet filters based on a superhydrophobic metal-organic framework stable in high-temperature steam. 2020 , 219, 121175	13
374	Zn-BTC MOF as an Adsorbent for Iodine Uptake and Organic Dye Degradation. 2020 , 20, 7833-7839	22
373	Defect-Engineered MetalâDrganic Frameworks: A Thorough Characterization of Active Sites Using CO as a Probe Molecule. 2021 , 125, 593-601	5
372	Tracking and Visualization of Functional Domains in Stratified Metal-Organic Frameworks Using Gold Nanoparticles. 2020 , 6, 247-253	8
371	Improving Energy Transfer within Metal-Organic Frameworks by Aligning Linker Transition Dipoles along the Framework Axis. 2020 , 142, 11192-11202	24
370	Metal-organic framework with optimally selective xenon adsorption and separation. 2016, 7, ncomms11831	232
369	Self-assembly of metal-organic polyhedra into supramolecular polymers with intrinsic microporosity. 2018 , 9, 2506	109
369 368		109
	microporosity. 2018 , 9, 2506	1
368	microporosity. 2018, 9, 2506 Chapter 5:CO2 Capture by Adsorption Processes. 2019, 106-167	1
368 367	microporosity. 2018, 9, 2506 Chapter 5:CO2 Capture by Adsorption Processes. 2019, 106-167 Particle size effects in the kinetic trapping of a structurally-locked form of a flexible MOF. 2016, 18, 4172-417 A single-crystal-to-single-crystal transformation affording photochromic 3D MORF crystals. 2019,	1 921
368 367 366	microporosity. 2018, 9, 2506 Chapter 5:CO2 Capture by Adsorption Processes. 2019, 106-167 Particle size effects in the kinetic trapping of a structurally-locked form of a flexible MOF. 2016, 18, 4172-417 A single-crystal-to-single-crystal transformation affording photochromic 3D MORF crystals. 2019, 55, 13824-13827 Vapochromic crystals: understanding vapochromism from the perspective of crystal engineering.	1 921 15
368 367 366 365	Chapter 5:CO2 Capture by Adsorption Processes. 2019, 106-167 Particle size effects in the kinetic trapping of a structurally-locked form of a flexible MOF. 2016, 18, 4172-417 A single-crystal-to-single-crystal transformation affording photochromic 3D MORF crystals. 2019, 55, 13824-13827 Vapochromic crystals: understanding vapochromism from the perspective of crystal engineering. Chemical Society Reviews, 2020, 49, 1517-1544 Synthesis, characterization and crystal structure of a copper-glutamate metal organic framework	1 921 15 91
368 367 366 365 364	Chapter 5:CO2 Capture by Adsorption Processes. 2019, 106-167 Particle size effects in the kinetic trapping of a structurally-locked form of a flexible MOF. 2016, 18, 4172-417 A single-crystal-to-single-crystal transformation affording photochromic 3D MORF crystals. 2019, 55, 13824-13827 Vapochromic crystals: understanding vapochromism from the perspective of crystal engineering. Chemical Society Reviews, 2020, 49, 1517-1544 Synthesis, characterization and crystal structure of a copper-glutamate metal organic framework (MOF) and its adsorptive removal of ciprofloxacin drug from aqueous solution. 2020, 44, 3961-3969 Applications of pair distribution function analyses to the emerging field of non-ideal metal-organic	1 921 15 91

360	Giant ferrimagnetism and polarization in a mixed metal perovskite metal-organic framework. 2018 , 2,	7
359	Understanding phonon properties in isoreticular metal-organic frameworks from first principles. 2019 , 3,	11
358	Crystal structure of bis-(piperazin-1-ium-)bis-(thio-sulfato-)zinc(II) dihydrate. 2018, 74, 176-179	1
357	On the Application of Classical Molecular Simulations of Adsorption in MetalâDrganic Frameworks. 2015 , 53-112	5
356	Molecular Modeling of Gas Separation in MetalâDrganic Frameworks. 2015 , 295-337	1
355	Modelling of porous metal-organic framework (MOF) materials used in catalysis. 2020 , 1-24	1
354	Reaction in situ found in the synthesis of a series of lanthanide sulfate complexes and investigation on their structure, spectra and catalytic activity. 2013 , 03, 76-99	10
353	Facile Syntheses of Metal-organic Framework Cu3(BTC)2(H2O)3under Ultrasound. 2009, 30, 2921-2926	69
352	Microwave Synthesis of a Porous Metal-Organic Framework, Nickel(II) Dihydroxyterephthalate and its Catalytic Properties in Oxidation of Cyclohexene. 2010 , 31, 1489-1495	31
351	A Facile Synthesis of SAPO-34 Molecular Sieves with Microwave Irradiation in Wide Reaction Conditions. 2011 , 32, 1957-1964	16
350	Sonochemical Synthesis of Cu3(BTC)2in a Deep Eutectic Mixture of Choline Chloride/dimethylurea. 2011 , 32, 2783-2786	21
349	Oxidation of Ethylbenzene Using Nickel Oxide Supported Metal Organic Framework Catalyst. 2014 , 35, 3213-3218	21
348	Synthesis of Highly Dispersed Small Metal-Organic Frameworks Crystal Using a Polymer Additive. 2014 , 35, 2825-2827	3
347	Microwave-Syntheses of Zeolitic Imidazolate Framework Material, ZIF-8. 2009 , 53, 553-559	24
346	Cost effective and low energy consuming hydrothermal synthesis of Ni based MOF. 2015 , 24, 51-54	2
345	Microwave-Assisted Air Epoxidation of Mixed Biolefins over a Spherical Bimetal ZnCo-MOF Catalyst. 2021 , 13, 8474-8487	8
344	ResponZIF Structures: Zeolitic Imidazolate Frameworks as Stimuli-Responsive Materials. 2021 , 13, 50602-506	542 ₃
343	High-sensitivity optical fiber hydrogen sensor based on the metal organic frameworks of UiO-66-NH. 2021 , 46, 5405-5408	1

342	A 3D-Coordination Polymer Assembled from Copper Propionate Paddlewheels and Potassium Propionate 1D-Polymeric Rods Possessing a Temperature-Driven Single-Crystal-to-Single-Crystal Phase Transition.	2
341	Micropore environment regulation of zirconium MOFs for instantaneous hydrolysis of an organophosphorus chemical. 2021 , 2, 100612	3
340	One-Pot, Room-Temperature Conversion of CO into Porous Metal-Organic Frameworks. 2021 , 143, 16750-167	547
339	Organic cage inclusion crystals exhibiting guest-enhanced multiphoton harvesting. 2021,	1
338	Failure-Experiment-Supported Optimization of Poorly Reproducible Synthetic Conditions for Novel Lanthanide Metal-Organic Frameworks with Two-Dimensional Secondary Building Units*. 2021 , 27, 16347-163	33
337	Zeolites and Other Micro- and Mesoporous Molecular Sieves. 1	
336	Effect of framework flexibility on diffusion of short alkanes in metal-organic framework. 2011 , 60, 093602	1
335	Influence of Preparation Conditions on the Formation of Copper (II) Architectures with Pyrazine-2,3,5-tricarboxylic Acid. 2011 , 32, 2351-2357	
334	Nanofabricated Systems: Combined to Function. 333-357	
333	On Amorphous Materials as Potential Objects in Solid-State NMR Studies. 2011 , 37-56	
332	Introduction. 2012 , 1-11	
331	Synthesis of Through-space Conjugated Polymers. 2012 , 70, 480-491	Ο
330	Hostâguest and guestâguest interactions between xylene isomers confined in the MIL-47(V) pore system. 2014 , 35-47	
329	FUELS âlHYDROGEN STORAGE MetalâlDrganic Frameworks. 2013 ,	
328	Crystalline Coordination Nanospaces for Development of New Polymer Chemistry. 2013 , 55, 75-80	
327	Proton Conductive Metal-Organic Frameworks. 2013 , 61, 46-54	
326	Host Materials Based on Metal Complexes with New Combination of Building Blocks. 2013 , 61, 38-45	
325	Synthesis, Crystal Structure, Hydrogen Bonding and Thermal Behaviour of a Three-Dimensional	

324	Development of the Crystallization-free Crystallography Method Using Porous Complexes. 2014 , 63, 29-37	
323	Synthesis and Crystal Structure of Two Cu(II)-Benzene-1,2,4,5- Tetracarboxylates With Three-Dimensional Open Frameworks.	
322	Modeling Adsorptive Separations Using MetalâDrganic Frameworks. 2015 , 419-449	
321	Hydrothermal Synthesis of Fe Based MOFs with Energy Economy Approach. 2015 , 24, 55-58	
320	Synthesis, characterization and crystal structure determination of new coordination polymers of cadmium (II) based on pyridine hydrazide ligands. 2019 , 26, 1001-1012	1
319	CHAPTER 22. Hybrids of MetalâØrganic Frameworks as Organized Supramolecular Nano-reactors. 2019 , 479-502	
318	Vat lieu ZIF-67: Tong hop trong dung mî ethanol v^nghiñ cuu kha nlig hap phu methyl da cam. 2019 , Tl͡p 55, S ² , 1	
317	Highlighting the Binding Behavior of Icosahedral Boron Clusters Incorporated into Polymers: Synthons, Polymers Preparation, and Relevant Properties. 41-60	
316	Adsorption of Pd(II) onto Zr(IV) Based Metal-Organic Framework UIO-66-NH2 from Hydrochloric Acid Solution. 2019 , 57, 589-595	1
315	2D Metal-Organic Frameworks. 2020 , 1-19	
315	2D Metal-Organic Frameworks. 2020, 1-19 Preparation and enhanced properties of ZrMOF@CdTe nanoparticles with high-density quantum dots. 2020, 14, 155-162	
	Preparation and enhanced properties of ZrMOF@CdTe nanoparticles with high-density quantum	1
314	Preparation and enhanced properties of ZrMOF@CdTe nanoparticles with high-density quantum dots. 2020 , 14, 155-162 Synthesis of stable and highly efficient Au@ZIF-8 for selective hydrogenation of nitrophenol. 2020 ,	1
314	Preparation and enhanced properties of ZrMOF@CdTe nanoparticles with high-density quantum dots. 2020, 14, 155-162 Synthesis of stable and highly efficient Au@ZIF-8 for selective hydrogenation of nitrophenol. 2020, 31, 485707 Unraveling Hidden Correlations between Molecular Diffusivity and Reactivity in Ruthenium	1
314 313 312	Preparation and enhanced properties of ZrMOF@CdTe nanoparticles with high-density quantum dots. 2020, 14, 155-162 Synthesis of stable and highly efficient Au@ZIF-8 for selective hydrogenation of nitrophenol. 2020, 31, 485707 Unraveling Hidden Correlations between Molecular Diffusivity and Reactivity in Ruthenium Complex-Modified Mesoporous Silica. 2020, 124, 21502-21511 Efficient Computation of Nonadiabatic Coupling Coefficients for Modeling Charge Carrier	
314 313 312 311	Preparation and enhanced properties of ZrMOF@CdTe nanoparticles with high-density quantum dots. 2020, 14, 155-162 Synthesis of stable and highly efficient Au@ZIF-8 for selective hydrogenation of nitrophenol. 2020, 31, 485707 Unraveling Hidden Correlations between Molecular Diffusivity and Reactivity in Ruthenium Complex-Modified Mesoporous Silica. 2020, 124, 21502-21511 Efficient Computation of Nonadiabatic Coupling Coefficients for Modeling Charge Carrier Recombination in Extended Systems: The Case of Metal-Organic Frameworks. 2021, 125, 9700-9706 Enhancement of Cancer Chemotherapeutic Efficacy via Bone-Targeted Drug Delivery Carrier in	1
314 313 312 311 310	Preparation and enhanced properties of ZrMOF@CdTe nanoparticles with high-density quantum dots. 2020, 14, 155-162 Synthesis of stable and highly efficient Au@ZIF-8 for selective hydrogenation of nitrophenol. 2020, 31, 485707 Unraveling Hidden Correlations between Molecular Diffusivity and Reactivity in Ruthenium Complex-Modified Mesoporous Silica. 2020, 124, 21502-21511 Efficient Computation of Nonadiabatic Coupling Coefficients for Modeling Charge Carrier Recombination in Extended Systems: The Case of Metal-Organic Frameworks. 2021, 125, 9700-9706 Enhancement of Cancer Chemotherapeutic Efficacy via Bone-Targeted Drug Delivery Carrier in Bone Metastases. 2021, 15, 4455-4468	1

306	Modern Carbon-Based Materials for Adsorptive Removal of Organic and Inorganic Pollutants from Water and Wastewater. 2021 , 26,	4
305	Optically active porous hybrid particles constructed by alkynylated cellulose nanocrystals, helical substituted polyacetylene, and inorganic silica for enantio-differentiating towards naproxen. 2021 ,	
304	CHAPTER 9:Metal Organic Frameworks: From Material Chemistry to Catalytic Applications. 2020 , 235-303	2
303	Hierarchical ordering in light-triggered additive manufacturing. 2020 , 11, 7316-7329	O
302	Efficient N2/CH4 separation in a stable metalâBrganic framework with high density of open Cr sites. 2022 , 281, 119951	2
301	Closed Sorption Systems. 2020 ,	
300	Click Chemistry to Metal-Organic Frameworks as a Synthetic Tool for MOF and Applications for Functional Materials. 2020 , 523-538	2
299	Application of Metal Organic Framework and Derived Material in Hydrogenation Catalysis. 2020 , 193-218	
298	References. 285-306	
297	Recent advances in metal organic framework (MOF) as electrode material for super capacitor: A mini review. 2021 , 47, 103530	3
296	Template-directed synthesis of three-dimensional metal organic framework 199-derived highly porous copper nano-foam fiber for solid-phase microextraction of some antibiotics prior to their quantification by High performance liquid chromatography. 2021 , 1660, 462677	0
295	Flexibility Control of Two-Dimensional Coordination Polymers by Crystal Morphology: Water Adsorption and Thermal Expansion. 2021 , 27, 18135	4
294	Biomass derived hierarchical porous carbon for high-performance O/N adsorption; a new green self-activation approach 2021 , 11, 36125-36142	3
293	Drug delivery of paracetamol by metal-organic frameworks (HKUST-1): improvised synthesis and investigations. 2022 , 23, 100647	2
292	Three Robust Blue-Emitting Anionic Metal-Organic Frameworks with High Stability and Good Proton Conductivities. 2021 , 60, 17926-17932	2
291	Synthesis of aqueous media stable MIL101-OH/chitosan for diphenhydramine and metronidazole adsorption. 2021 , 1	O
290	UiO-66-NH-(AO) MOFs with a New Ligand BDC-NH-(CN) for Efficient Extraction of Uranium from Seawater. 2021 , 13, 57831-57840	4
289	A Critical Review on Photoreduction Using MetalâDrganic Frameworks: Kinetics, pH and Mechanistic Studies and Anthropogenic/Natural Sources of Cr(VI). 1	O

288	Cooperative Brfisted-Lewis acid sites created by phosphotungstic acid encapsulated metalâBrganic frameworks for selective glucose conversion to 5-hydroxymethylfurfural. 2021 , 310, 122459	4
287	Luminescent metalâBrganic frameworks as biosensors. 2021 , 131230	1
286	Multicomponent Synthesis of Pyrimidoquinolinetriones and Pyridodipyrimidines in the Presence of Triethylenediamine-Based Ionic Liquid/MIL-101(Cr) Metal-Organic Framework Composite. 1-20	О
285	Designing and construction of a cobalt-metal-organic framework/heteroatoms co-doped reduced graphene oxide mesoporous nanocomposite based efficient electrocatalyst for chlorogenic acid detection. 2021 , 898, 163028	O
284	Nanospace Engineering of Metal-Organic Frameworks for Heterogeneous Catalysis.	2
283	Recent Progress in Adsorptive Removal of Water Pollutants by Metal-Organic Frameworks.	2
282	Synthesis and Mechanical Properties of sub 5-µm PolyUiO-66 Thin Films on Gold Surfaces. 2021 ,	O
281	Metal Organic Frameworks to Remove Arsenic Adsorption from Wastewater. 2022 , 1-35	
280	Two scandium-based coordination polymers: rapid ultrasound-assisted synthesis, crystal transformation, and catalytic properties. 2021 , 23, 7813-7821	0
279	An overview of the materials and methodologies for CO2 capture under humid conditions. 2021 , 9, 26498-265	527
278	g-CN/ZnCdS heterojunction for efficient visible light-driven photocatalytic hydrogen production 2021 , 11, 38120-38125	3
277	Monolayer Nanosheets Exfoliated from Cage-Based Cationic Metal-Organic Frameworks 2022,	O
276	Shaping of ZIF-8 and MIL-53(Al) adsorbents for CH4/N2 separation. 2022, 331, 111648	2
275	Preparation of poly(ionic liquid@MOF) composite monolithic column and its application in the online enrichment and purification of tectochrysin in medicinal plants 2022 ,	O
274	High-Hole-Mobility Metal-Organic Framework as Dopant-Free Hole Transport Layer for Perovskite Solar Cells 2022 , 17, 6	2
273	Thin Film Composite Membranes for Postcombustion Carbon Capture: Polymers and Beyond. 2022 , 101504	4
272	Dicyanamide-perovskites at the edge of dense hybrid organicâlhorganic materials. 2022 , 455, 214337	2
271	ICG@ZIF-8/PDA/Ag composites as chemo-photothermal antibacterial agents for efficient sterilization and enhanced wound disinfection. 2021 ,	4

270	Solvent-free bottom-up patterning of zeolitic imidazolate frameworks 2022, 13, 420	1
269	Biological Application of Hybrid Phosphors. 2022 , 223-240	
268	Construction of manganese-based metal organic frameworks derived from aromatic dicarboxylic acids and application for the adsorption of iodine. 2022 , 1-14	1
267	Post-synthetic modification and chemical modulation of the ZIF-8 MOF using 3-mercaptopropionic acid (MPA): a multi-technique study on thermodynamic and kinetic aspects. 2022 , 7, 101-111	2
266	Repetitive in Situ Recycling of Degraded Metal-Organic Frameworks within Nanocapsules.	1
265	Green route of flexible Al-MOF synthesis with superior properties at low energy consumption assisted by ultrasound waves. 2022 , 123, 106782	1
264	Synthesis and resolution of a chiral open-chain host having a partial structure of p-tert-butylsulfinylcalix[4]arene.	0
263	Embedding in-plane aligned MOF nanoflakes in silk fibroin for highly enhanced output performance of triboelectric nanogenerators. 2022 , 10, 799-807	5
262	Vacancies in Metalâ®rganic Frameworks: Formation, Arrangement, and Functions. 2100203	0
261	Superradiance and Directional Exciton Migration in Metal-Organic Frameworks 2022,	2
260	Machine Learning Prediction of Metal-Organic Framework Guest Accessibility from Linker and Metal Chemistry. 2021 ,	5
259	Metal-organic frameworks for active food packaging. A review 2022 , 20, 1-17	4
258	Nonthermal plasma catalysis enhances simultaneous removal of toluene and ozone over TiO2@ZIF-8. 2022 , 332, 130107	0
257	Hybrid Plasmonic Nanomaterials for Hydrogen Generation and Carbon Dioxide Reduction 2022 , 7, 778-815	16
256	Postsynthetic Defect Formation in Three-Dimensional Hofmann-Type Coordination Polymers and Its Impact on Catalytic Activity 2022 ,	0
255	Aluminum-based Metal-Organic Framework as Water-tolerant Lewis Acid Catalyst for Selective Dihydroxyacetone Isomerization to Lactic Acid.	1
254	Molecular simulation of adsorption and diffusion of H2 /CO2 /CO /MeOH /EtOH mixture into the zeolitic imidazolate framework ZIF-8. 2022 , 333, 111723	0
253	Machine-Learning Prediction of MetalâDrganic Framework Guest Accessibility from Linker and Metal Chemistry.	

252	MOF Synthesis Prediction Enabled by Automatic Data Mining and Machine Learning 2022,	7
251	MOF Synthesis Prediction Enabled by Automatic Data Mining and Machine Learning.	1
250	A facile approach for hierarchical architectures of an enzyme-metal-organic framework biocatalyst with high activity and stability 2022 ,	0
249	Synthesis of nanostructured materials via atomic and molecular layer deposition. 2022,	
248	Construction of H 6 PW 9 V 3 O 40 @ rht -MOF-1 for deep oxidative desulfurization of fuel oil.	0
247	Spacers directed self-assembly of heterobimetallic copper(II)-lanthanide(III) [Ln = Nd and Gd] moieties: syntheses, structural diversities and magnetic properties. 2022 , 115718	o
246	Investigating H Adsorption in Isostructural Metal-Organic Frameworks M-CUK-1 (M = Co and Mg) through Experimental and Theoretical Studies 2022 ,	1
245	Stabilize thin nanoparticle layer of zeolitic imidazole framework-8 (ZIF-8) on different PVDF substrates by contra-diffusion method for high-efficiency ultrafiltration application. 2022 ,	o
244	Flexible Cu ₃ (HHTP) ₂ MOF Membranes for Gas Sensing Application at Room Temperature.	
243	I2 and Ch3i´Capture in a Radiation Stable Metal-Organic Framework: Cau-21-Odb.	
242	Porous Optical Chemosensors for Early Detection and Monitoring of Heavy Metals Correlated with Alzheimer's Disease.	
241	An overview of metal-free sustainable nitrogen-based catalytic knoevenagel condensation reaction 2022 ,	3
240	Advances in porous inorganic nanomaterials for bone regeneration. 2022, 9130005	0
239	Assembly of gold nanorods functionalized by zirconium-based metal-organic frameworks for surface enhanced Raman scattering 2022 ,	2
238	Assembly of a coordination polymer with sulphate-capped pentamolybdate units and copper: synthesis, structure, magnetic and catalytic studies 2022 ,	0
237	Structure, magnetic properties and spin density of two alternative Mn(II) coordination polymers based on 1,4-bis(2'-carboxyphenoxy)benzene 2022 ,	o
236	Ni nanocatalysts supported on MIL-53(Al) for DCPD hydrogenation 2022 , 12, 9044-9050	0
235	Coordination polymers based on aluminum and indium halides together with pyrazineâ 2022,	О

234	Strategies for the application of metal-organic frameworks in catalytic reactions 2022 , 12, 10114-10125	2
233	An efficient and recyclable Cu@UiO-67-BPY catalyst for the selective oxidation of alcohols and the epoxidation of olefins. 2022 , 46, 5839-5847	O
232	Research Progresses of Metal-organic Framework HKUST-1-Based Membranes in Gas Separations?. 2022 , 80, 340	0
231	Solid-state NMR insights into alcohol adsorption by metal-organic frameworks: adsorption state, selectivity, and adsorption-induced phase transitions 2022 ,	
230	MetalâDrganic Frameworks (MOFs) Encapsulated Nanoparticles: Potential Catalysts for Diverse Organic Reactions. 2022 , 705-729	
229	Probing the electronic and ionic transport in topologically distinct redox-active metal-organic frameworks in aqueous electrolytes 2022 ,	O
228	MetalâDrganic Frameworks: Promising Materials for Methane Storage. 2022 , 517-549	
227	High-IPolyimide-Based Dielectrics by Introducing a Functionalized Metal-Organic Framework 2022 ,	O
226	Synthesis Methods and Influencing Factors of Metal Organic Framework Material MIL-53. 2022 , 2194, 012030	
225	Modifying HKUST-1 Crystals for Selective Ethane Adsorption Using Ionic Liquids as Synthesis Media. 2022 , 12, 279	O
224	Post-synthetic modification of IR-MOF-3 as acidic-basic heterogeneous catalyst for one-pot synthesis of pyrimido[4,5-b]quinolones. 2022 , 48, 1773-1792	O
223	Structural insight of MOFs under combined mechanical and adsorption stimuli 2022,	O
222	2D Materials for Wearable Energy Harvesting. 2101623	1
221	Mixed Metal-Organic Framework Stationary Phases for Liquid Chromatography 2022,	1
220	Lithium Harvesting from the Most Abundant Primary and Secondary Sources: A Comparative Study on Conventional and Membrane Technologies 2022 , 12,	O
219	Zirconium(IV) Metal Organic Frameworks with Highly Selective Sorption for Diclofenac under Batch and Continuous Flow Conditions. 2022 , 12, 424	1
218	Synthesis and Crystal Structure of a New Chiral Hydrogen-Bonded Organic Framework ZIOC-2. 2022 , 22, 2547-2556	О
217	Structures and Catalytic Properties of two New Squaramide-decorated Cd-MOFs.	

Metal-Organic Framework Based Drug Delivery for Alzheimer Therapy and Clinical Progress. **2022**, 19,

215	Emerging Trends in Sustainable CO Management Materials 2022 , e2201547	4
214	Comparative of MIL101(Cr) and nano-MIL101(Cr) electrode as an electrochemical hydrogen peroxide sensor.	
213	Structural Insight of MOFs under Combined Mechanical and Adsorption Stimuli.	O
212	Flexible Cu(HHTP) MOF Membranes for Gas Sensing Application at Room Temperature 2022, 12,	2
211	Confined and synergistic effects between protonated amines and gases in the frameworks of lanthanum 1,3-propanediaminetetraacetates. 2022 , 335, 111813	O
210	Nanoconfinement of an Otherwise Useless Fluorophore in MetalâDrganic Frameworks to Elicit and Tune Emission.	0
209	Advances in particulate matter filtration: materials, performance, and application. 2022,	3
208	MIL-101(Cr) MOF as an Effective Siloxane Sensor 2022 ,	3
207	Metal-Organic Frameworks: A new generation potential material for aqueous environmental remediation. 2022 , 109436	2
206	Iridium-functionalized metalåBrganic framework nanocrystals interconnected by carbon nanotubes competent for electrocatalytic water oxidation.	1
205	One-pot synthesis of zinc ion coordinated hydroxy-terminated polyurethanes based on low molecular weight polyethylene glycol and toluene diisocyanate. 2022 , 29, 1	O
204	Effect of solution chemistry on the stability and transport of ZIF-8 in saturated porous media. 2022 , 10, 107562	O
203	Carbon dioxide capture in gallate-based metal-organic frameworks. 2022 , 292, 121031	3
202	A biocompatible bismuth based metal-organic framework as efficient light-sensitive drug carrier 2022 , 617, 578-584	О
201	Metal-organic framework interface engineering for highly efficient oxygen evolution reaction 2022 , 619, 148-157	O
200	Benign Synthesis of Metal-Organic Framework (MIL-101-Cr) and Evaluation of Carbon-dioxide Adsorption Behaviour Employing Adsorption Isotherm Models 2021 ,	
199	Loading and Sustained Release of Pralidoxime Chloride from Swellable MIL-88B(Fe) and Its Therapeutic Performance on Mice Poisoned by Neurotoxic Agents 2021 ,	2

198	An Electrically Conductive Tetrathiafulvalene-Based Hydrogen-Bonded Organic Framework. 2022 , 4, 128-135	3
197	References. 2021 , 317-358	
196	Interrogating the Behaviour of a Styryl Dye Interacting with a Mesoscopic 2D-MOF and Its Luminescent Vapochromic Sensing 2021 , 23,	1
195	Achieving High-Selective CO2 Adsorption on SAPO-35 Zeolites by Template-Modulating Framework Silicon Content.	О
194	Enhancement of Protein Crystallization Using Nano-Sized MetalâDrganic Framework. 2022, 12, 578	0
193	Metal organic framework based sensors for the detection of food contaminants. 2022 , 116642	3
192	Genuine Pores in a Stable Zinc Phosphite for High H2 Adsorption and CO2 Capture 2022,	O
191	Separation of perfluorinated electron specialty gases on microporous carbon adsorbents with record selectivity. 2022 , 292, 121059	2
190	Modeling and molecular simulation methods for CO2 capture. 2022 , 347-369	0
189	Effect of structural modifications on the oxygen reduction reaction properties of metal-organic framework-based catalysts. 2022 , 165-184	
188	A Three-Dimensional Coordination Framework with a Ferromagnetic Coupled Ni(II)-CrO Layer: Synthesis, Structure, and Magnetic Studies 2022 , 14,	
187	Synthesis, X-ray, Hirshfeld, and AIM Studies on Zn(II) and Cd(II) Complexes with Pyridine Ligands. 2022 , 12, 590	
186	Preparation of Hierarchically Porous Metal-Organic Frameworks Slow Chemical Vapor Etching for CO Cycloaddition 2022 ,	1
185	MD Studies of Methanol Confined in the Metal-Organic Framework MOF MIL-88B-Cl. 2022 , 119252	
184	Caffeine Encapsulation in Metal Organic Framework MIL-53(Al) at Pilot Plant Scale for Preparation of Polyamide Textile Fibers with Cosmetic Properties 2022 ,	О
183	Stimuli-responsive of magnetic metal-organic frameworks (MMOF): Synthesis, dispersion control, and its tunability into polymer matrix under the augmented-magnetic field for H2 separation and CO2 capturing applications. 2022 ,	1
182	Counterion distribution around a polyelectrolyte confined in a metalâ®rganic framework. 1-9	О
181	I2 and CH3I capture in a Fadiation stable metal-organic framework: CAU-21-ODB. 2022 , 123182	1

180	Recent advances in the tuning of the organic framework materials - the selections of ligands, reaction conditions, and post-synthesis approaches. 2022 ,	1
179	A comprehensive overview on alkaline phosphatase targeting and reporting assays. 2022 , 465, 214567	2
178	Synthesis, spectroscopic, solid-state electrical conductivity, and thermal analysis of Cu(II) doped Zn(II) heterobimetallic complexes derived from 2,5-dichloro-3,6-bis-(methylamino)1,4-benzoquinone. 2022 , 647, 129071	
177	Dynamic Surface Modification of Metal-Organic Framework Nanoparticles via Alkoxyamine Functional Groups 2022 ,	
176	General Synthesis and Solution Processing of Metal-Organic Framework Nanofibers 2022, e2202504	3
175	Advanced Adsorbents for Ecological Applications: Water Harvesting from the Atmosphere and Recuperation of Heat and Moisture in Ventilation Systems. 2022 , 133-152	
174	3D Printing of MetalâDrganic Framework-Based Ionogels: Wearable Sensors with Colorimetric and Mechanical Responses.	4
173	pH-induced structural variations of two new Mg(II)-PDA complexes: experimental and theoretical studies. 2022 , 133373	1
172	On the adsorption properties and applications of mixed-linker MOFs based on HKUST-1. 2022 , 123260	0
171	A novel metal-organic frameworks composite-based label-free point-of-care quartz crystal microbalance aptasensing platform for tetracycline detection. 2022 , 133302	2
170	Fabrication of adsorbents with enhanced CuI stability: Creating a superhydrophobic microenvironment through grafting octadecylamine. 2022 ,	
169	Adsorption Equilibrium, Thermodynamic, and Kinetic Study of O2/N2/CO2 on Functionalized Granular Activated Carbon.	1
168	Electrocatalytic study of cu/Ni MOF and its g-C 3 N 4 composites for methanol oxidation reaction.	O
167	Mechanistic insights into the interaction between binders and Y-type zeolites in fluid catalytic cracking. 2022 , 324, 124640	O
166	Coordination/metalâBrganic cages inside out. 2022 , 467, 214612	5
165	Conductive Co-triazole metal-organic framework exploited as oxygen evolution electrocatalyst.	O
164	Investigation of methane adsorption onto metalâBrganic frameworks under subcritical condition employing adsorption isotherm models. 2022 , 45,	
163	Selective and efficient mercury(II) removal from water by adsorption with a cellulose citrate biopolymer. 2022 , 100060	1

162	Bimetallic Feâllu metal organic frameworks for room temperature catalysis.	1
161	Controlled assemblies of conjugated polymers in metalâBrganic frameworks.	
160	Cycloparaphenylene and their radicals anchored to a metalâBrganic framework. 2022 , 25, 100973	
159	Bimetallic Metalâ©rganic Frameworks (BMOFs) and Their Potential Applications. 3-15	2
158	Cooperative catalysis in a metalâBrganic framework via post-synthetic immobilisation. 2022 , 51, 9229-9232	O
157	METAL-ORGANIC FRAMEWORKS IN RUSSIA: FROM THE SYNTHESIS AND STRUCTURE TO FUNCTIONAL PROPERTIES AND MATERIALS. 2022 , 63, 671-843	1
156	Liquid and Glass Phases of an Alkylguanidinium Sulfonate Hydrogen-Bonded Organic Framework.	1
155	Stimuli-Responsive Naphthalenediimide Cd-MOFs Tuned by Different Aliphatic Dicarboxylic Acids with Extended Spacers.	2
154	Synthesis of Mixed-Metal MIL-68 under Mild Conditions by Controlling Nucleation Using a Microfluidic System.	
153	Molecular Sieving of Propylene from Propane in Metalâ©rganic Framework-Derived Ultramicroporous Carbon Adsorbents.	4
152	Constructing a Highly Sensitivity SERS Sensor Based on a Magnetic MetalâDrganic Framework (MOF) to Detect the Trace of Thiabendazole in Fruit Juice.	1
151	Molybdenum-functionalized metalâBrganic framework crystals interconnected by carbon nanotubes as negative electrodes for supercapacitors.	
150	Highly Porous Materials as Potential Components of Natural Gas Storage Systems: Part 1 (A Review). 2022 , 62, 561-582	O
149	Effect of Hydrogen Bonding on the Luminescence Lifetime and Device Resistance: A Case Study Based on Two New Related Cd-Based Coordination Polymers.	O
148	Creation of metalâBrganic framework nanosheets by the Langmuir-Blodgett technique. 2022 , 469, 214650	1
147	New Cu(II)-based three dimensional supramolecular coordination polymer as photocatalyst for the degradation of methylene blue. 2022 , 1266, 133533	O
146	Pore-confined cobalt sulphide nanoparticles in a metalâBrganic framework as a catalyst for the colorimetric detection of hydrogen peroxide.	
145	Toughening and stabilizing MOF crystals via polymeric guest inclusion.	3

The Non-Crystalline Metal-Organic Framework for Corrosion Inhibitor Behavior in Sodium Chloride Solution.

A Single Potassium-Ion Conducting MetalâDrganic Framework.

143	A Single Potassium-Ion Conducting MetalâDrganic Framework.	1
142	Experimental X-ray and DFT Structural Analyses of M12L8 Poly-[n]-catenanes Using exo-Tridentate Ligands. 2022 , 61, 10863-10871	O
141	Lead(II)-Azido MetalâDrganic Coordination Polymers: Synthesis, Structure and Application in PbO Nanomaterials Preparation. 2022 , 12, 2257	
140	Iodine Uptake by Zr-/Hf-Based UiO-66 Materials: The Influence of Metal Substitution on Iodine Evolution. 2022 , 14, 29916-29933	3
139	Numerical simulation of polymethyl-methacrylate supercritical fluid foaming process: Bubble growth dynamics.	
138	Recent developments in CO 2 capture, utilization, related materials, and challenges.	1
137	Calorimetric Study of the CO2 Gate Sorption of Elastic Layer-Structured MetalâDrganic Frameworks (ELM-11 and ELM-12). 2022 , 129745	O
136	Fluorescence detection of phosphate in an aqueous environment by an aluminum-based metal-organic framework with amido functionalized ligands. 2022 , 16,	2
135	Dynamic network of intermolecular interactions in metal-organic frameworks functionalized by molecular machines. 2022 , 8,	
134	Camphor: Synthesis, reactions and uses as a potential moiety in the development of complexes and organocatalysts. 2022 , 132913	1
133	MIL-101(Fe)-derived iron oxide/carbon anode for lithium-ion batteries: Derivation process study and performance optimization. 2022 , 426, 140794	O
132	MetalâDrganic Framework: An Emergent Catalyst in CâN Cross-Coupling Reactions. 2022 , 469, 214667	4
131	Tricopper(II)bis(2-((hydrogen phosphonato)methyl)benzylphosphonate) as a layered oxo-bridged copper(II) coordination polymer: Synthesis, structure, magnetic property, and catalytic activity. 2022 , 225, 116038	O
130	Peptization mechanism of aluminum phosphate sol. 2022 , 651, 129637	
129	Study of CO2 and N2 sorption into ZIF-8 at high pressure and different temperatures. 2022 , 314, 123370	1
128	Adsorption and diffusion of the H2/CO2/CO/MeOH/EtOH mixture into the ZIF-7 using molecular simulation. 2022 , 116, 108275	Ο

A contemporary report on explications of flexible metal-organic frameworks with regards to structural simulation, dynamics and material applications. **2022**, 116041

126	Synthesis, crystal structure, thermal studies, and antimicrobial activity of benzene-1,4-dicarboxylate-copper(II) based coordination polymer incorporating N,N,N?,N?-tetramethylethylenediamine. 1-11	
125	Modified gelatin/iron- based metal-organic framework nanocomposite hydrogel as wound dressing: Synthesis, antibacterial activity, and Camellia sinensis release. 2022 , 218, 488-505	O
124	Recent progress in multifunctional conjugated polymer nanomaterial-based synergistic combination phototherapy for microbial infection theranostics. 2022 , 470, 214701	1
123	Nanoconfined synthesis of conjugated ladder polymers.	
122	MetalâBrganic framework (MOF)-, covalent-organic framework (COF)-, and porous-organic polymers (POP)-catalyzed selective Câ⊞ bond activation and functionalization reactions.	12
121	Synthesis of Metalâ®rganic Frameworks Quantum Dots Composites as Sensors for Endocrine-Disrupting Chemicals. 2022 , 23, 7980	1
120	Tunable Topological Phase Transition in Two-Dimensional Ternary Transition Metal Halides TiXI (X = P and As). 9,	
119	Two-dimensional dysprosium(III) coordination polymer: Structure, single-molecule magnetic behavior, proton conduction, and luminescence. 10,	1
118	Temperature-Dependent Superhydrophobic Functionalized Coordination Polymers (SFCPs) for Selective Adsorption of C2H4 over C2H6.	
117	Preparation of metal-organic frameworks and their derivatives for supercapacitors.	
116	MetalâDrganic Framework-Derived Electrocatalysts Competent for the Conversion of Acrylonitrile to Adiponitrile. 2022 , 14, 35534-35544	1
115	A comparative study of the toxic effect of ZIF-8 and ZIF-L on the colonization and decomposition of shaded outdoor mice carrions by arthropods. 2022 , 12,	2
114	A Multinary MetalâDrganic Framework with Divided Linkers for C2H2/CO2 Separation. 1774-1779	4
113	Cation-Exchangeable Pralidoxime Chloride@bio-MOF-1 as a Treatment for Nerve Agent Poisoning and Sulfur Mustard Skin Poisoning in Animals.	
112	Introduction of Nanomaterials to Biosensors for Exosome Detection: Case Study for Cancer Analysis. 2022 , 12, 648	1
111	Novel metal-organic framework (MOF) based phase change material composite and its impact on building energy consumption. 2022 , 273, 112382	Ο
110	Investigation of catalytic activity of vanadyl sulphate immobilized on prepared UiO-66 modified with urea and melamine as allyl alcohol epoxidation catalysts.	O
109	Metal-organic frameworks for pharmaceutical and biomedical applications. 2022 , 221, 115026	2

108	A dual purpose aluminum-based metal organic framework for the removal of chloramphenicol from wastewater. 2022 , 308, 136411	О
107	The non-crystalline metal-organic framework for corrosion inhibitor behavior in sodium chloride solution. 2022 , 33, 104519	О
106	Towards high-quality petrochemical feedstocks from mixed plastic packaging waste via advanced recycling: The past, present and future. 2022 , 238, 107474	3
105	Highly selective photocatalytic oxidation of alcohols under the application of novel metal organic frameworks (MOFs) based catalytic system. 2023 , 629, 136-143	2
104	Monolithic and compressible MIL-101(Cr)/cellulose aerogel/melamine sponge based microextraction in packed syringe towards trace nitroimidazoles in water samples prior to UPLC-MS/MS analysis. 2023 , 253, 123935	1
103	A mesoporous metalâ¤rganic framework used to sustainably release copper(ii) into reducing aqueous media to promote the CuAAC click reaction. 2022 , 12, 26825-26833	О
102	Data-driven efficient synthetic exploration of anionic lanthanide-based metalâ¤rganic frameworks.	1
101	Photocatalytic reduction of low-concentration CO2 by metalâBrganic frameworks. 2022 , 58, 10114-10126	1
100	Novel bimetallic MOF derived N-doped carbon supported Ru nanoparticles for efficient reduction of nitro aromatic compounds and rhodamine B. 2022 , 46, 17004-17015	О
99	SUPRAMOLECULAR COMPOUNDS FORMED BY METAL-ORGANIC FRAMEWORKS AND ORGANIC PHOTOCHROMES. REVIEW. 2022 , 63, 1453-1483	O
98	Degradation Mechanism of MetalâDrganic Framework Drug Nanocarriers Studied by Solid-State Nuclear Magnetic Resonance and X-ray Absorption Near-Edge Structure Spectroscopy. 2022 , 34, 8178-8189	О
97	Engineering CuMOF in TiO2 Nanochannels as Flexible Gas Sensor for High-Performance NO Detection at Room Temperature. 2022 , 7, 2750-2758	1
96	Selective Photocatalytic Dehydrogenation of Formic Acid by an In Situ-Restructured Copper-Postmetalated MetalâDrganic Framework under Visible Light. 2022 , 144, 16433-16446	О
95	Exchange controlled triplet fusion in metalâBrganic frameworks.	1
94	Selective and Sensitive Detection of Hydrogen Sulphide Using Hydrolytically Stable Cu-MOF. 2022 , 134277	0
93	MIL-88B(Fe)/cellulose microspheres as sorbent for the fully automated dispersive pipette extraction towards trace sulfonamides in milk samples prior to UPLC-MS/MS analysis. 2022 , 1232, 340420	O
92	Metal-organic frameworks (MOFs) as biomolecules drug delivery systems for anticancer purposes. 2022 , 244, 114801	1
91	All-Inorganic Zeolitic Octahedral Metal Oxides. 2022 , 123-165	O

90	Highly efficient sorption and luminescence sensing of oxoanionic species by 8-connected alkyl-amino functionalized Zr4+ MOFs.	O
89	Uniaxial orientation of anisotropic polythiophene rods toward macroscopic chain ordering.	О
88	Metal oxide/carbon nanosheet arrays derivative of stacked metal organic frameworks for triggering oxygen evolution reaction. 2022 ,	1
87	Pressure-Induced Structural Effects in the Square Lattice (sql) Topology Coordination Network Sql-1-Co-NCS[4OX.	O
86	The Synthesis of MetalâDrganic-Framework-Based Ternary Nanocomposite for the Adsorption of Organic Dyes from Aqueous Solutions. 2022 , 8, 133	1
85	Recent Advances and Potential Applications of Flexible Adsorption and Separation Materials: A review.	О
84	Green and efficient removal of sulfides using oxo-peroxo tungsten(VI)-MIL-101(Cr) nanoreactor as heterogeneous recyclable catalyst. 2022 , 121274	0
83	Novel MOF catalysts based on calix[4]arene for the synthesis of propylene carbonate from propylene oxide and CO2. 2022 , 66, 102262	o
82	A review on metal-organic frameworks for the removal of hazardous environmental contaminants. 2023 , 305, 122416	0
81	Crystallization and phase selection of zeolitic imidazolate frameworks in aqueous cosolvent systems: The role and impacts of organic solvents. 2022 , 100751	o
80	Spatiotemporal Design of the Metal-Organic Framework DUT-8(M). 2207741	0
79	In Silico Screening of Metal-Organic Frameworks for Formaldehyde Capture with and without Humidity by Molecular Simulation. 2022 , 23, 13672	0
78	Influence of Tartrate Ligand Coordination over Luminescence Properties of Chiral Lanthanide-Based MetalâDrganic Frameworks. 2022 , 12, 3999	0
77	MOF-808: a novel solid-acid catalyst for methanol conversion to environmentally clean fuel dimethyl ether. 1-9	0
76	Toward Reduced CO2 Emissions from Vehicles: Onboard Capture and Storage System Using Metal-Organic Frameworks.	0
75	Nickel-organic frameworks as highly efficient catalyst for electrochemical conversion of CH3OH into formic acid. 2023 , 146, 107416	o
74	MOF Catalysis Meets Biochemistry: Molecular Insights from the Hydrolytic Activity of MOFs Towards Biomolecules.	1
73	Evaluation of ZIF-8 flexible force fields for structural and mechanical properties. 2023 , 348, 112406	O

72	New Hg(ii) coordination polymers based on a thioimidazole ligand with good performance to detoxify Hg(ii) and reversibly capture iodine.	O
71	Metal-organic frameworks as chemical nanoreactors for the preparation of catalytically active metal compounds.	O
70	Molecular Mechanism of Drug Transport and Release through Zeolitic imidazole framework nanospheres for Versatile Drug Delivery Applications. 2022 , 120822	О
69	Highly Luminescent Crystalline Sponge: Sensing Properties and Direct X-ray Visualization of the Substrates. 2022 , 27, 8055	O
68	Superior fatigue and mechanical properties of ethylene-propylene diene monomer rubber incorporated with Zr-based metalabrganic framework. 2023 , 30,	O
67	MetalâDrganic Framework-Based Biosensing Platforms for the Sensitive Determination of Trace Elements and Heavy Metals: A Comprehensive Review.	O
66	Water-Harvesting MetalâDrganic Frameworks with Gigantic Al24 Units and their Deconstruction into Molecular Clusters.	O
65	Degradable covalently-linked siloxane-phosphazene polymer for drug loading and releasing. 2022 , 105491	O
64	High-performance electrochemiluminescence sensors based on ultra-stable perovskite quantum dots@ZIF-8 composites for aflatoxin B1 monitoring in corn samples. 2022 , 135325	O
63	Water-Harvesting Metalâ©rganic Frameworks with Gigantic Al24 Units and their Deconstruction into Molecular Clusters.	O
62	Hierarchically porous zeolitic imidazole framework-8/cellulose membrane installed in filter as sorbent for microextraction in packed syringe towards trace tetracyclines in water samples.	O
61	Charge transfer in metal-organic frameworks.	O
60	Ultrasonic-Assisted Fabrication of MIL-100(Fe) MetalâDrganic Frameworks as a Carrier for the Controlled Delivery of the Chloroquine Drug. 2023 , 8, 1262-1270	О
59	Boosting xenon adsorption with record capacity in microporous carbon molecular sieves.	1
58	Investigation of the Performance of Heterogeneous MOF-Silver Nanocube Nanocomposites as CO2 Reduction Photocatalysts by In Situ Raman Spectroscopy. 2023 , 15, 6716-6725	O
57	Investigation of Guest-Induced Flexibility in Pyrazine Derivative of ALFFIVE MOF via Molecular Simulation. 2023 , 39, 1373-1385	O
56	Terpenes as natural building blocks for the synthesis of hierarchically porous polymers: bio-based polyHIPEs with high surface areas.	О
55	Noncentrosymmetric Supramolecular Hydrogen-Bonded Assemblies Based on Achiral Pyrazine-Bridged Zinc(II) Coordination Polymers with Pyrazinedione Derivatives. 2023 , 5, 179-186	O

54	Atypical Magnetic Behavior in the Incommensurate (CH3NH3)[Ni(HCOO)3] Hybrid Perovskite.	O
53	An imidazole based luminescent Zn (II) metalâBrganic framework for sensing of nitroaromatic explosives. 2023 , 549, 121409	O
52	Facile synthesis of HPW@MOF-199 embedded in SBA-15 functionalized with -COOH groups as a steady catalyst for the esterification reaction. 2023 , 340, 127563	O
51	Two-dimensional bimetallic Fe/M- (Ni, Zn, Co and Cu) metal organic framework as efficient and stable electrodes for overall water splitting and supercapacitor applications. 2023 , 61, 106702	O
50	Accelerated screening and assembly of promising MOFs with open Cu sites for isobutene/isobutane separation using a data-driven approach. 2023 , 25, 8608-8623	O
49	Defect-engineered metalâBrganic frameworks (MOF-808) towards the improved adsorptive removal of organic dyes and chromium (vi) species from water. 2023 , 47, 6433-6447	O
48	Direct generation of polypyrrole-coated palladium nanoparticles inside a metal-organic framework for a semihydrogenation catalyst. 2023 , 13, 7464-7467	0
47	Hybrid organicâlhorganic nanoparticles with associated functionality for catalytic transformation of biomass substrates. 2023 , 13, 10144-10156	O
46	New Materials for Sorption-Based Atmospheric Water Harvesting: Opportunities and Challenges. 2023 , 41-72	0
45	Photo-responsive metalâBrganic frameworks âldesign strategies and emerging applications in photocatalysis and adsorption. 2023 , 4, 1258-1285	O
44	Facile integration of hydroxyl ionic liquid into Cr-MIL-101 as multifunctional heterogeneous catalyst for promoting the efficiency of CO2 conversion. 2023 , 350, 112461	0
43	A LDH Template Triggers the Formation of a Highly Compact MIL-53 Metal-Organic Framework Membrane for Acid Upgrading. 2023 , 135,	O
42	Low temperature plasma-assisted synthesis and modification of water splitting electrocatalysts. 2023 , 449, 142179	0
41	Self-assembled MOF microspheres with hierarchical porous structure for efficient uranium adsorption. 2023 , 314, 123526	O
40	Chiral dual-emission composite material fluorescein/CCQDs @ZIF-8 for highly efficient recognition of phenylenediamine isomers and their oxidized product. 2023 , 294, 122545	O
39	Recent advances in two-dimensional metal-organic frameworks as an exotic candidate for the evaluation of redox-active sites in energy storage devices. 2023 , 64, 107142	O
38	Dynamic structural and microstructural responses of a metalâBrganic framework type material to carbon dioxide under dual gas flow and supercritical conditions. 2023 , 56, 222-236	0
37	Sequential Sol-Gel Self-Assembly and Nonclassical Gel-Crystal Transformation of the Metal-Organic Framework Gel. 2206718	O

36	Toward MOF@Polymer CoreâBhell Particles: Design Principles and Potential Applications. 2023, 56, 462-474	О
35	NO donors as the wonder molecules with therapeutic potential: Recent trends and future perspectives. 2023 , 481, 215052	O
34	Cobalt-based electroactive compounds: synthesis and their electrochemical and pseudocapacitance performance. 2023 , 34,	0
33	Reversible transformations between the non-porous phases of a flexible coordination network enabled by transient porosity. 2023 , 15, 542-549	O
32	Post-Synthetic Surface Modification of MetalâDrganic Frameworks and Their Potential Applications. 2023 , 7,	О
31	Defective MetalâDrganic Framework Nanocrystals as Signal Amplifiers for Electrochemical Dopamine Sensing. 2023 , 6, 3675-3684	O
30	Self-enhanced peroxidase-like activity in a wide pH range enabled by heterostructured Au/MOF nanozymes for multiple ascorbic acid-related bioenzyme analyses. 2023 , 148, 1579-1586	O
29	A LDH Template Triggers the Formation of a Highly Compact MIL-53 Metal-Organic Framework Membrane for Acid Upgrading. 2023 , 62,	O
28	Room temperature design of Ce(iv)-MOFs: from photocatalytic HER and OER to overall water splitting under simulated sunlight irradiation. 2023 , 14, 3451-3461	1
27	Customizing Metal-Organic Frameworks by Lego-Brick Strategy for One-Step Purification of Ethylene from a Quaternary Gas Mixture. 2208182	O
26	Efficiency and selectivity of cost-effective Zn-MOF for dye removal, kinetic and thermodynamic approach.	0
25	A Series of Metalâ©rganic Frameworks with 2,2?-Bipyridyl Derivatives: Synthesis vs. Structure Relationships, Adsorption, and Magnetic Studies. 2023 , 28, 2139	O
24	Metalâ©rganic Framework-Based Materials for Wastewater Treatment: Superior Adsorbent Materials for the Removal of Hazardous Pollutants. 2023 , 8, 9004-9030	O
23	MOF/Al2O3 composites obtained by immobilization of MIL-53(Cr) or MIL-101(Cr) on 🗟 lumina: Preparation and characterization. 2023 , 353, 112518	O
22	MOFs Preparation and Synthetic Approaches. 2023 , 31-44	0
21	MOFs for desulfurization of fuel oil: Recent advances and future insights.	O
20	Porous Carbon in Food Industry. 2023 , 733-761	О
19	Nanofluid-based wooden imprinted membranes with precise-designed nanocages for ultrafast and super-sensitive recognition and separation.	O

18	Switching of Guest Selectivity for the Inclusion of Regioisomers of Monosubstituted Phenols with Crystals of p-tert-Butylcalix[4]arene.	O
17	Opportunities from Metal Organic Frameworks to Develop Porous Carbons Catalysts Involved in Fine Chemical Synthesis. 2023 , 13, 541	O
16	57Fe Missbauer Spectrometry to explore natural and artificial nanostructures. 2023, 38, 925-936	0
15	Machine learning accelerates the investigation of targeted MOFs: Performance prediction, rational design and intelligent synthesis. 2023 , 49, 101802	O
14	Gelatin-Coated Copper-Based MetalâDrganic Framework for Controlled Insulin Delivery: Possibility toward Oral Delivery System. 2023 , 5, 1100-1108	O
13	Highly Efficient Separation of CH4/C2H6/C3H8 from Natural Gas on a Novel Copper-Based MetalâDrganic Framework. 2023 , 62, 5252-5261	1
12	MIL-160(Al) as a Candidate for Biogas Upgrading and CO2 Capture by Adsorption Processes. 2023 , 62, 5216-5229	O
11	MOF-on-MOF Composites with UiO-66-Based Materials as Photocatalysts for the Overall Water Splitting under Sunlight Irradiation. 2023 , 37, 5457-5468	O
10	Nanofluid-based wooden imprinted membranes with precise-designed nanocages for ultrafast and super-sensitive recognition and separation.	0
9	RuO2 supported on MOF-derived CeO2 as an efficient catalyst for selective CâH oxidation of alkylarenes in water at room temperature. 2023 , 354, 112548	O
8	Prospects of low-temperature solid sorbents in industrial COâlcapture: A focus on biomass residues as precursor material. 2023 , 13, 245-284	0
7	Oriented attachment interfaces of zeolitic imidazolate framework nanocrystals.	O
6	Post-Synthetic Cyano-ferrate(II) Functionalization of a MetalâØrganic Framework, NU-1000. 2023 , 39, 4936-4942	О
5	NanoMOFs with Encapsulated Photosensitizer: Accumulation inChlamydia trachomatisInclusions and Antimicrobial Effects.	O
4	EPR spectroscopy of functional nanostructures: new targeted approaches and applications. 2023 , 72, 312-334	O
3	Biomimetic Dual-Layer Imprinted UiO-66-Based Basswood Membranes for Ibuprofen Recognition and Separation.	O
2	Green Route Synthesis and Adsorption Studies of Copper-Benzimidazole Coordination Polymer for Removal of Methyl Orange from Water.	О
1	Conjugated Nonplanar Copper-Catecholate Conductive MetalâDrganic Frameworks via Contorted Hexabenzocoronene Ligands for Electrical Conduction.	O