# CITATION REPORT List of articles citing

A route to high surface area, porosity and inclusion of large molecules in crystals

DOI: 10.1038/nature02311 Nature, 2004, 427, 523-7.

Source: https://exaly.com/paper-pdf/36819502/citation-report.pdf

Version: 2024-04-23

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
2356	Anisotropic Paramagnetic Properties of Metallofullerene Confined in a MetalOrganic Framework.		
2355	Modular Total Synthesis in Reticular Chemistry.		
2354	Thermal Engineering of MetalOrganic Frameworks for Adsorption Applications: A Molecular Simulation Perspective.		
2353	Occupancy Dependency of MaxwellStefan Diffusivities in Ordered Crystalline Microporous Materials.		
2352	De Novo Tailoring Pore Morphologies and Sizes for Different Substrates in a Urea-Containing MOFs Catalytic Platform.		
2351	Computational Design of Hybrid Frameworks: Structure and Energetics of Two Me3OF3{-O2C-C6H4-CO2-}3 Metal-Dicarboxylate Polymorphs, MIL-hypo-1 and MIL-hypo-2. <b>2004</b> , 630, 2599-2604		24
2350	Hybrid organic-inorganic frameworks: routes for computational design and structure prediction. <b>2004</b> , 43, 6290-6		147
2349	A hybrid solid with giant pores prepared by a combination of targeted chemistry, simulation, and powder diffraction. <b>2004</b> , 43, 6296-301		723
2348	Rigid and flexible: a highly porous metal-organic framework with unusual guest-dependent dynamic behavior. <b>2004</b> , 43, 5033-6		1018
2347	Hybrid Organicâlhorganic Frameworks: Routes for Computational Design and Structure Prediction. <b>2004</b> , 116, 6450-6456		20
2346	A Hybrid Solid with Giant Pores Prepared by a Combination of Targeted Chemistry, Simulation, and Powder Diffraction. <b>2004</b> , 116, 6456-6461		219
2345	Rigid and Flexible: A Highly Porous MetalâDrganic Framework with Unusual Guest-Dependent Dynamic Behavior. <b>2004</b> , 116, 5143-5146		199
2344	Benzene-templated hydrothermal synthesis of metal-organic frameworks with selective sorption properties. <b>2004</b> , 10, 5535-40		152
2343	MetalâBrganic frameworks: a new class of porous materials. <b>2004</b> , 73, 3-14		2204
2342	Nickel coordination polymer with entrapped naphthalene molecules. <b>2004</b> , 7, 942-945		15
2341	Toward Understanding the Thermodynamic Viability of Zeolites and Related Frameworks through a Simple Topological Model. <b>2004</b> , 16, 3809-3820		44
2340	Dynamics of alkoxy-oligothiophene ground and excited states in nanochannels. <b>2004</b> , 126, 15512-9		46

## (2005-2004)

2339	Guest shape-responsive fitting of porous coordination polymer with shrinkable framework. <b>2004</b> , 126, 14063-70	274
2338	A chain of changes: influence of noncovalent interactions on the one-dimensional structures of nickel(II) dicarboxylate coordination polymers with chelating aromatic amine ligands. <b>2004</b> , 43, 5360-7	129
2337	Electronic and vibrational properties of a MOF-5 metal-organic framework: ZnO quantum dot behaviour. <b>2004</b> , 2300-1	381
2336	Crystal-to-crystal guest exchange of large organic molecules within a 3D coordination network. <b>2004</b> , 126, 16292-3	200
2335	Porous Cu-Cd mixed-metal-organic frameworks constructed from Cu(Pyac)2 [Bis[3-(4-pyridyl)pentane-2,4-dionato]copper(II)]. <b>2004</b> , 43, 8209-11	162
2334	Three-dimensional metal-organic framework with (3,4)-connected net, synthesized from an ionic liquid medium. <b>2004</b> , 1594-5	211
2333	Novel eclipsed 2D cadmium(II) coordination polymers with open-channel structure constructed from terephthalate and 3-(2-pyridyl)pyrazole: crystal structures, emission properties, and inclusion of guest molecules. <b>2004</b> , 43, 5382-6	106
2332	Notizen. <b>2004</b> , 52, 408-413	
2331	Poren per Baukasten. <b>2005</b> , 53, 394-399	27
2330	Lanthanide co-ordination frameworks: Opportunities and diversity. <b>2005</b> , 178, 2414-2419	110
2329	Soft functional polynuclear coordination compounds containing pyrimidine bridges. <b>2005</b> , 178, 2436-2451	67
2328	Flexibility in metal-organic framework materials: Impact on sorption properties. <b>2005</b> , 178, 2491-2510	484
2327	Solvothermal synthesis of new metal organic framework structures in the zincâterephthalic acidâtimethyl formamide system. <b>2005</b> , 178, 3342-3351	107
2326	Low-weight coordination polymers derived from the self-assembly reactions of Pd(II) pyrazolyl compounds and azide ion. <b>2005</b> , 24, 1086-1092	23
2325	Molecular double chains and 3-D supramolecular frameworks with open channels assembled from 1D copper(II) maleate coordination polymers with chelating aromatic amine ligands by noncovalent interactions. <b>2005</b> , 358, 3807-3814	17
2324	Eutectic mixture of choline chloride/urea as a green solvent in synthesis of a coordination polymer: [Zn(O3PCH2CO2)][NH4. <b>2005</b> , 8, 390-392	125
2323	Open lanthanide-organic frameworks with intertwined double and triple helical structures. <b>2005</b> , 8, 669-672	41
2322	Raman spectra of hydrogen and deuterium adsorbed on a metalâBrganic framework. <b>2005</b> , 411, 516-519	59

2321	Hydrothermal synthesis and crystal structure of a new three-dimensional aluminum-organic framework MIL-69 with 2,6-naphthalenedicarboxylate (ndc), Al(OH)(ndc)[H2O. <b>2005</b> , 8, 765-772	131
2320	Metal organic frameworks based on Cu2+ and benzene-1,3,5-tricarboxylate as host for SO2 trapping agents. <b>2005</b> , 8, 753-763	56
2319	Crystallized frameworks with giant pores: are there limits to the possible?. <b>2005</b> , 38, 217-25	1245
2318	Structural investigation of zeolite-templated, ordered microporous carbon by scanning tunneling microscopy and Raman spectroscopy. <b>2005</b> , 21, 8817-23	30
2317	Gas adsorption sites in a large-pore metal-organic framework. <b>2005</b> , 309, 1350-4	785
2316	New approaches to the analysis of high connectivity materials: design frameworks based upon 4(4)-and 6(3)-subnet tectons. <b>2005</b> , 38, 335-48	519
2315	Co-existing intermolecular halogen bonding, aryl packing and hydrogen bonding in driving the self-assembly process of Keggin polyoxometalates. <b>2005</b> , 7, 380	53
2314	A chromium terephthalate-based solid with unusually large pore volumes and surface area. <b>2005</b> , 309, 2040-2	4003
2313	MIL-103, a 3-D lanthanide-based metal organic framework with large one-dimensional tunnels and a high surface area. <b>2005</b> , 127, 12788-9	400
2312	Selective nucleation and growth of metal-organic open framework thin films on patterned COOH/CF3-terminated self-assembled monolayers on Au(111). <b>2005</b> , 127, 13744-5	490
2311	On the limiting physical adsorption of hydrogen in carbon materials. <b>2005</b> , 50, 1246-1249	2
2310	Highly controlled acetylene accommodation in a metal-organic microporous material. <i>Nature</i> , <b>2005</b> , 436, 238-41	1267
2309	Hydrothermal synthesis and structural characterization of a gallium pyromellitate Ga(OH)(btec)?0.5H2O, with infinite Ga-(-OH)-Ga chains (MIL-61). <b>2005</b> , 7, 603-609	45
2308	Metal-organic frameworks based on iron oxide octahedral chains connected by benzenedicarboxylate dianions. <b>2005</b> , 7, 1096-1103	195
2307	Multidimensional Cyanide-Bridged Heterometallic FeIIâtul and Homometallic CuI Coordination Polymers from Solvothermal Reactions Involving either K3[Fe(CN)6] or KCN as the Source of Cyanide Anions. <b>2005</b> , 2005, 2860-2868	19
2306	Methane and carbon dioxide storage in a porous van der Waals crystal. <b>2005</b> , 44, 1816-20	357
2305	Metal@MOF: loading of highly porous coordination polymers host lattices by metal organic chemical vapor deposition. <b>2005</b> , 44, 6237-41	598
2304	Crystal engineering: toward intersecting channels from a neutral network with a bcu-type topology. <b>2005</b> , 44, 6063-7	187

## (2005-2005)

2303	Highly porous, homochiral metal-organic frameworks: solvent-exchange-induced single-crystal to single-crystal transformations. <b>2005</b> , 44, 1958-61	308
2302	Strategies for hydrogen storage in metalorganic frameworks. <b>2005</b> , 44, 4670-9	2144
2301	High H2 adsorption in a microporous metal-organic framework with open metal sites. 2005, 44, 4745-9	959
2300	Metal ions play different roles in the third-order nonlinear optical properties of d10 metal-organic clusters. <b>2005</b> , 44, 6067-74	128
2299	An in situ high-temperature single-crystal investigation of a dehydrated metal-organic framework compound and field-induced magnetization of one-dimensional metal-oxygen chains. <b>2005</b> , 44, 6354-8	473
2298	Methane and Carbon Dioxide Storage in a Porous van der Waals Crystal. <b>2005</b> , 117, 1850-1854	118
2297	Metall@MOF: Beladung hoch porßer Koordinationspolymergitter durch Metallorganische Chemische Dampfabscheidung. <b>2005</b> , 117, 6394-6397	101
2296	Crystal Engineering: Toward Intersecting Channels from a Neutral Network with a bcu-Type Topology. <b>2005</b> , 117, 6217-6221	19
2295	Highly Porous, Homochiral Metalâ©rganic Frameworks: Solvent-Exchange-Induced Single-Crystal to Single-Crystal Transformations. <b>2005</b> , 117, 1994-1997	47
2294	Strategien fil die Wasserstoffspeicherung in metall-organischen Kompositgerßten. <b>2005</b> , 117, 4748-4758	253
2293	High H2 Adsorption in a Microporous MetalâDrganic Framework with Open Metal Sites. 2005, 117, 4823-4827	208
2292	Metal Ions Play Different Roles in the Third-Order Nonlinear Optical Properties of d10 Metalâ®rganic Clusters. <b>2005</b> , 117, 6221-6228	44
2291	An In Situ High-Temperature Single-Crystal Investigation of a Dehydrated MetalâDrganic Framework Compound and Field-Induced Magnetization of One-Dimensional MetalâDxygen Chains. <b>2005</b> , 117, 6512-6516	94
2290	Graphite Nanoplatelet Reinforcement of Electrospun Polyacrylonitrile Nanofibers. <b>2005</b> , 17, 77-80	192
2289	Triple hydrogen bonds direct crystal engineering of metal-assembled complexes: the effect of a novel organic-inorganic module on supramolecular structure. <b>2005</b> , 11, 6616-28	39
2288	Applications of hybrid organicâlhorganic nanocomposites. <b>2005</b> , 15, 3559	2121
2287	Sequestering perrhenate with a borate-based coordination polymer: a model for pertechnetate separation. <b>2005</b> , 44, 4891-3	27
2286	New double-layered open metalâBrganic frameworks with nanosized channels encapsulated removable 2,5-bis(4-pyridyl)-1,3,4-thiadiazole molecules. <b>2005</b> , 7, 96-101	22

2285	Modular materials from zeolite-like building blocks. <b>2005</b> , 15, 931	53
2284	A microporous scandium terephthalate, Sc2(O2CC6H4CO2)3, with high thermal stability. <b>2005</b> , 3850-2	80
2283	2D and 3D coordination polymers based on 2,2?-bipyrimidine and cyanide bridging ligands incorporating coordinated and guest ammonia molecules. Synthesis, crystal structures, magnetic properties and thermal analysis of {[Ni(CN)4]2[(Ni(NH3)2)2(bpym)][2H2O}n and {[Cu2(CN)2	25
2282	(bpym)]/NH3}n. 2005, 29, 1189  Novel coordination polymers and structural systematics in the hydrothermal M,M'  trans-3(-3-pyridyl)acrylic acid system. 2005, 2788-92	38
2281	Three-dimensional mesomeric networks assembled from helix-linked sheets: syntheses, structures, and magnetisms. <b>2005</b> , 2609-14	59
2280	Reversible hydrogen gas uptake in nanoporous Prussian Blue analogues. <b>2005</b> , 3322-4	139
2279	Two-Dimensional Noninterpenetrating Transition Metal Coordination Polymers with Large Honeycomb-like Hexagonal Cavities Constructed from a Carboxybenzyl Viologen Ligand. <b>2005</b> , 5, 1939-1943	53
2278	Porous metal-organic truncated octahedron constructed from paddle-wheel squares and terthiophene links. <b>2005</b> , 127, 12752-3	197
2277	Open metal-organic framework containing cuprate chains. <b>2005</b> , 44, 6192-6	27
2276	Two novel nanoporous supramolecular architectures based on copper(i) coordination polymers with uniform (8, 3) and (8(2)10) nets: in situ formation of tetrazolate ligands. <b>2005</b> , 44, 4130-2	170
2275	Design, synthesis, structure, and gas (N2, Ar, CO2, CH4, and H2) sorption properties of porous metal-organic tetrahedral and heterocuboidal polyhedra. <b>2005</b> , 127, 7110-8	526
2274	Assembling molecular species into 3D frameworks: Computational design and structure solution of hybrid materials. <b>2005</b> , 33, 187-197	48
2273	Diversification of hydrothermal reaction products induced by naphthalene molecules. <b>2005</b> , 44, 538-45	35
2272	Development of a detector for liquid chromatography based on aerosol chemiluminescence on porous alumina. <b>2005</b> , 77, 1518-25	45
2271	A polynuclear complex, {[Cu(bpe)2](NO3)}, with interpenetrated diamondoid networks: synthesis, properties and catalytic behavior. <b>2005</b> , 15, 4234	37
2270	Influence of the reaction temperature and ph on the coordination modes of the 1,4-benzenedicarboxylate (BDC) ligand: a case study of the Ni(II)(BDC)/2,2'-bipyridine system. <b>2005</b> , 44, 8265-71	206
2269	Intercalation and exfoliation routes to graphite nanoplatelets. <b>2005</b> , 15, 974	342
2268	Syntheses, Structures, and Photoluminescent Properties of Three Silver(I) Coordination Polymers with 2-(4-Pyridyl)benzimidazole. <b>2005</b> , 5, 1569-1574	77

## (2006-2005)

2267	A three-dimensional porous metal-organic framework with the rutile topology constructed from triangular and distorted octahedral building blocks. <b>2005</b> , 2402-4	118
2266	Luminescent silver metal chains with unusual mu4-bonded 2,2'-bipyrazine. <b>2005</b> , 656-8	34
2265	Polynuclear lanthanide hydroxo complexes: new chemical precursors for coordination polymers. <b>2005</b> , 44, 7743-50	72
2264	A chiral, heterometallic metal-organic framework derived from a tris(chelate) coordination complex. <b>2005</b> , 5506-8	100
2263	Synthesis, characterization, and photoluminescence of isostructural Mn, Co, and Zn MOFs having a diamondoid structure with large tetrahedral cages and high thermal stability. <b>2005</b> , 2663-5	153
2262	Submaximal interpenetration and bicontinuous three-dimensional channels in porous molecular networks. <b>2005</b> , 127, 10008-9	39
2261	Synthesis and properties of the metal-organic framework Mo3(BTC)2 (TUDMOF-1). <b>2006</b> , 16, 2245	123
2260	From Helical Array to Porous Architecture: Exploring the Use of Side Chains of Amino Acids to Engineer 1D Infinite Coordination Polymeric Chain into Porous Frameworks. <b>2006</b> , 6, 989-993	33
2259	Recent Advances in the Dynamics of Single Crystal to Single Crystal Transformations in MetalâDrganic Open Frameworks. <b>2006</b> , 59, 605	71
2258	Theoretical assessment of the elastic constants and hydrogen storage capacity of some metal-organic framework materials. <b>2006</b> , 125, 084714	86
2257	Crystal porosity and the burden of proof. <b>2006</b> , 1163-8	367
2256	Hydrogen adsorption in an interpenetrated dynamic metal-organic framework. <b>2006</b> , 45, 5718-20	191
2255	Pi-bonded quinonoid transition-metal complexes. <b>2006</b> , 2385-98	37
2254	Increased dimensionalities of zinc-diphenic acid coordination polymers by simultaneous or subsequent addition of neutral bridging ligands. <b>2006</b> , 586-93	21
2253	The first route to large pore metal phosphonates. <b>2006</b> , 3305-7	118
2252	Tuning the Framework Formation of Ni(II) Complexes by Controlling the Hydrolysis of 2,2â[B,3âEThiodiphthalic Dianhydride: Syntheses, Crystal Structures, and Physical Properties. <b>2006</b> , 6, 2369-23	73 <sup>1</sup>
2251	What we have learned from the study of solid p-tert-butylcalix[4]arene compounds. 2006, 4986-96	76
2250	Coordination and hydrogen bonded network structures of Cu(II) with mixed ligands: a hybrid hydrogen bonded material, an infinite sandwich arrangement, and a 3-D net. <b>2006</b> , 3407-17	39

2249	Exceptional H2 saturation uptake in microporous metal-organic frameworks. <b>2006</b> , 128, 3494-5	1079
2248	An interweaving MOF with high hydrogen uptake. <b>2006</b> , 128, 3896-7	540
2247	Effects of surface area, free volume, and heat of adsorption on hydrogen uptake in metal-organic frameworks. <b>2006</b> , 110, 9565-70	521
2246	MetalâBrganic frameworksâBrospective industrial applications. <b>2006</b> , 16, 626-636	1825
2245	The interaction of water with MOF-5 simulated by molecular dynamics. <b>2006</b> , 128, 10678-9	478
2244	Solvent induced polymorphism in supramolecular 1,3,5-benzenetribenzoic acid monolayers. <b>2006</b> , 110, 10829-36	194
2243	Ferroelectric porous molecular crystal, [Mn3(HCOO)6](C2H5OH), exhibiting ferrimagnetic transition. <b>2006</b> , 128, 15074-5	224
2242	New 3-D La(III)-Cu(II)-containing coordination polymer with a high potential porosity. <b>2006</b> , 45, 8468-70	79
2241	Coexistence of chiral hydrophilic and achiral hydrophobic channels in one multi-helical-array metal-organic framework incorporating helical water cluster chains. <b>2006</b> , 4997-9	113
2240	Construction of 3D layer-pillared homoligand coordination polymers from a 2D layered precursor. <b>2006</b> , 45, 8677-84	67
2239	Microporous metal-organic frameworks formed in a stepwise manner from luminescent building blocks. <b>2006</b> , 128, 10403-12	347
2238	Coordination Polymer Open Frameworks Constructed of Macrocyclic Complexes. <b>2006</b> , 39-79	29
2237	Synthesis, Structure, Luminescence, and Water Induced Reversible Crystal-to-Amorphous Transformation Properties of Lanthanide(III) Benzene-1,4-dioxylacetates with a Three-Dimensional Framework. <b>2006</b> , 6, 1221-1226	62
2236	Rational Synthesis and Characterization of Robust Microporous Metalâ©rganic Frameworks with Base Functionality. <b>2006</b> , 6, 1059-1061	18
2235	Hydrogen physisorption on the organic linker in metal organic frameworks: ab initio computational study. <b>2006</b> , 110, 10479-84	39
2234	Stability and porosity enhancement through concurrent ligand extension and secondary building unit stabilization. <b>2006</b> , 45, 7566-8	86
2233	Heptametallic bowl-shaped complexes derived from conjugated Schiff-base macrocycles: synthesis, characterization, and X-ray crystal structures. <b>2006</b> , 45, 5248-50	97
2232	Characterization of the metal-organic framework compound Cu3(benzene 1,3,5-tricarboxylate)2 by means of 129Xe nuclear magnetic and electron paramagnetic resonance spectroscopy. <b>2006</b> , 110, 20177-81	43

# (2006-2006)

2231	One dense and two open chiral metal-organic frameworks: crystal structures and physical properties. <b>2006</b> , 45, 2972-8	133
2230	First 3D 3d-4f interpenetrating structure: synthesis, reaction, and characterization of {[LnCr(IDA)2(C2O4)]}n. <b>2006</b> , 45, 8471-3	84
2229	Robust non-interpenetrating coordination frameworks from new shape-persistent building blocks. <b>2006</b> , 45, 1442-4	72
2228	Reversible Anion Exchanges of Porous MetalâDrganic Frameworks: Syntheses and Structures of Silver Complexes with Novel Rigid Tripodal Nitrogen Ligands. <b>2006</b> , 6, 1890-1896	54
2227	Assemblies of a new flexible multicarboxylate ligand and d10 metal centers toward the construction of homochiral helical coordination polymers: structures, luminescence, and NLO-active properties. <b>2006</b> , 45, 174-80	309
2226	Investigation of acid sites in a zeotypic giant pores chromium(III) carboxylate. 2006, 128, 3218-27	309
2225	A porous framework polymer based on a zinc(II) 4,4'-bipyridine-2,6,2',6'-tetracarboxylate: synthesis, structure, and "zeolite-like" behaviors. <b>2006</b> , 128, 10745-53	281
2224	Porous Chiral Metal Organic Carboxylate Frameworks with a Double-interwoven SrSi2Topology: M3(TTCA)2[6DMF[7H2O (TTCA = triphenylenetricarboxylate; M = Zn2+, Cd2+). <b>2006</b> , 35, 1054-1055	12
2223	Synthesis and Characterization of $[Zn2(4,4?-bipy)n(AcO)4]$ â[One-dimensional Chain (n = 1) and One-dimensional Double-Chain (n = 2) Coordination Polymers. <b>2006</b> , 632, 2491-2494	8
2222	Synthesis and Crystal Structure of [Methylzinc(2-Pyridylethyl)(tert-butyldimethylsilyl)amide] and its Hydrolysis Product. <b>2006</b> , 632, 2363-2366	4
2221	Solvothermal synthesis, multi-temperature crystal structures and physical properties of isostructural coordination polymers, 2C4H12N+[M3(C8H4O4)4]23C5H11NO, M = Co, Zn. <b>2006</b> , 62, 245-54	19
2220	A 2D brick wall metal-organic framework constructed from quasi-tetracopper(II) SBUs: Crystal structure and magnetic property. <b>2006</b> , 9, 337-340	13
2219	Effect of substituted groups of ligand on construction of topological networks: In situ generated silver(I) tetrazolate coordination polymers. <b>2006</b> , 9, 341-345	79
2218	Formation of an oxygen-centered Ba2Zn4 octahedron via hydrolysis of barium 1,3-dimethyl-2,4-bis[tri(tert-butyl)silyl]-1,3-dizinca-2,4-diphosphetane-2,4-diide. <b>2006</b> , 9, 949-951	7
2217	A novel 3D metal-organic framework with helical structure: Synthesis and structure of [Ag4(tzdt)4(EzdtH)2]n (tzdtH=1,3-thiazolidine-2-thione). <b>2006</b> , 9, 1161-1164	14
2216	Synthesis and characterization of a novel 3D copper(I) coordination polymer with a ligand generated in situ. <b>2006</b> , 9, 1304-1307	19
2215	Coordination polymer networks with O- and N-donors: What they are, why and how they are made. <b>2006</b> , 250, 2127-2157	1323
2214	Synthesis, structure and luminescent properties of two three-dimensional d10 metal complexes constructed from pyridine-3,4-dicarboxylic acid with new network topologies. <b>2006</b> , 796, 172-178	13

2213	Robust building blocks for inorganic crystal engineering. <b>2006</b> , 359, 1255-1262	24
2212	Synthesis, structures and properties of alkaline earth metal benzene-1,4-dioxylacetates with three-dimensional hybrid networks. <b>2006</b> , 359, 3257-3263	44
2211	A copper(II) coordination polymer based on flexible spacer ligands: Synthesis, crystal structure, and magnetic properties of the adipato complex [Cu4(bpy)4(adip)3](tcnp)2 [bpy = C10H8N2; adip2-=O2C(CH2)4CO22-; tcnp-=(NC)2CC(OEt)C(CN)2-]. <b>2006</b> , 359, 3269-3274	16
2210	Shape-controlled synthesis and lithium-storage study of metal-organic frameworks Zn4O(1,3,5-benzenetribenzoate)2. <b>2006</b> , 160, 542-547	237
2209	MIL-96, a porous aluminum trimesate 3D structure constructed from a hexagonal network of 18-membered rings and mu3-oxo-centered trinuclear units. <b>2006</b> , 128, 10223-30	337
2208	Exceptional chemical and thermal stability of zeolitic imidazolate frameworks. <b>2006</b> , 103, 10186-10191	4715
2207	Vapor phase inclusion of ferrocene and its derivative in a microporous metal-organic porous material and its structural characterization by single crystal X-ray diffraction. <b>2006</b> , 2759-61	74
2206	Loading of porous metalâBrganic open frameworks with organometallic CVD precursors: inclusion compounds of the type [LnM]a@MOF-5. <b>2006</b> , 16, 2464-2472	182
2205	Structure and thermal behaviour of ScK(C2O4)2(H2O)2 and InRb1â¼(H3O)x(C2O4)2(H2O)2?0.5(H2O): Two members of a family of open-framework oxalates with isotypic helical structures and zeolite-like properties. <b>2006</b> , 8, 988-999	13
2204	Syntheses, crystal structures and thermal properties of 3D coordination polymers assembled from 1,4,5,8-naphthalenetetracarboxylic acid. <b>2006</b> , 8, 1237-1242	29
2203	Synthesis and structure determination of new open-framework chromium carboxylate MIL-105 or CrIII(OH)[[O2Catt6(CH3)4attO2][hH2O. <b>2006</b> , 41, 1550-1557	11
2202	A new indium metal-organic 3D framework with 1,3,5-benzenetricarboxylate, MIL-96 (In), containing B-oxo-centered trinuclear units and a hexagonal 18-ring network. <b>2006</b> , 41, 948-954	73
2201	Simple and quantitative mechanochemical preparation of a porous crystalline material based on a 1D coordination network for uptake of small molecules. <b>2005</b> , 45, 142-6	118
2200	A homochiral metal-organic material with permanent porosity, enantioselective sorption properties, and catalytic activity. <b>2006</b> , 45, 916-20	599
2199	A noninterpenetrating three-dimensional 4(6)6(9) iron(II) coordination polymer built with a trigonal-antiprismatic iron(III) metalloligand. <b>2006</b> , 45, 4003-7	35
2198	A metal-organic framework with a hierarchical system of pores and tetrahedral building blocks. <b>2006</b> , 45, 2528-33	185
2197	Guest-induced conformational switching in a single crystal. <b>2006</b> , 45, 5856-9	81
2196	A family of nanoporous materials based on an amino acid backbone. <b>2006</b> , 45, 6495-9	356

## (2007-2006)

2195	Syntheses, Crystal Structures and Magnetic Properties of Carboxylato-Bridged Polymeric Networks of MnII. <b>2006</b> , 2006, 481-490	47
2194	Improved Hydrogen Storage in the Metal-Organic Framework Cu3(BTC)2. <b>2006</b> , 8, 293-296	166
2193	Simple and Quantitative Mechanochemical Preparation of a Porous Crystalline Material Based on a 1D Coordination Network for Uptake of Small Molecules. <b>2006</b> , 118, 148-152	28
2192	A Homochiral MetalâDrganic Material with Permanent Porosity, Enantioselective Sorption Properties, and Catalytic Activity. <b>2006</b> , 118, 930-934	89
2191	A Noninterpenetrating Three-Dimensional 4669 Iron(ii) Coordination Polymer Built with a Trigonal-Antiprismatic Iron(iii) Metalloligand. <b>2006</b> , 118, 4107-4111	1
2190	A MetalâDrganic Framework with a Hierarchical System of Pores and Tetrahedral Building Blocks. <b>2006</b> , 118, 2590-2595	27
2189	Guest-Induced Conformational Switching in a Single Crystal. <b>2006</b> , 118, 5988-5991	15
2188	A Family of Nanoporous Materials Based on an Amino Acid Backbone. <b>2006</b> , 118, 6645-6649	65
2187	Carbide-Derived Carbons: Effect of Pore Size on Hydrogen Uptake and Heat of Adsorption. <b>2006</b> , 16, 2288-2293	335
2186	Polymer/graphite nanocomposites. <b>2006</b> , 510-539	6
2185	Self assembled functional nanomaterials: from ionic capsules to nanoporous molecular framework.	
<b>2</b> 10)	2006,	
2184	Lattice dynamics of metal-organic frameworks: Neutron inelastic scattering and first-principles	66
	2006,  Lattice dynamics of metal-organic frameworks: Neutron inelastic scattering and first-principles	66
2184	2006,  Lattice dynamics of metal-organic frameworks: Neutron inelastic scattering and first-principles calculations. 2006, 74,	
2184 2183 2182	Lattice dynamics of metal-organic frameworks: Neutron inelastic scattering and first-principles calculations. 2006, 74,  Captured Molecules in Coordination Frameworks. 2007, 32, 540-543	14
2184 2183 2182	Lattice dynamics of metal-organic frameworks: Neutron inelastic scattering and first-principles calculations. 2006, 74,  Captured Molecules in Coordination Frameworks. 2007, 32, 540-543  Specific Surface Effects on the Storage of Hydrogen on Carbon Nanostructures. 2007, 4, 377-384	14 7
2184 2183 2182 2181	Lattice dynamics of metal-organic frameworks: Neutron inelastic scattering and first-principles calculations. 2006, 74,  Captured Molecules in Coordination Frameworks. 2007, 32, 540-543  Specific Surface Effects on the Storage of Hydrogen on Carbon Nanostructures. 2007, 4, 377-384  From MetalâDrganic Precursors to Functional Ceramics and Related Nanoscale Materials. 2007, 35-70  Synthesis, crystal structures and luminescent properties of two new Ln(III)-dicarboxylate (Ln=Eu,	14 7 7

2177	Porous crystal derived from a tricarboxylate linker with two distinct binding motifs. <b>2007</b> , 129, 15740-1	205
2176	Mesoporous carbons with KOH activated framework and their hydrogen adsorption. <b>2007</b> , 17, 4204	119
2175	Construction of Lanthanide MetalâDrganic Frameworks by Flexible Aliphatic Dicarboxylate Ligands Plus a Rigid m-Phthalic Acid Ligand. <b>2007</b> , 7, 1733-1737	67
2174	Crystal Structure and Guest Uptake of a Mesoporous MetalâDrganic Framework Containing Cages of 3.9 and 4.7 nm in Diameter. <b>2007</b> , 119, 8378-8381	45
2173	Metal-organic frameworks: the young child of the porous solids family. <b>2007</b> , 170, 66-84	54
2172	Hydrogen and Methane Adsorption in MetalâDrganic Frameworks: A High-Pressure Volumetric Study. <b>2007</b> , 111, 16131-16137	406
2171	Metal-organic framework based on a trinickel secondary building unit exhibiting gas-sorption hysteresis. <b>2007</b> , 46, 3432-4	112
2170	Ligand flexibility and framework rearrangement in a new family of porous metal-organic frameworks. <b>2007</b> , 1532-4	71
2169	Periodic nets and tilings: possibilities for analysis and design of porous materials. <b>2007</b> , 170, 1637-1645	2
2168	An illustration of the limit of the metal organic framework's isoreticular principle using a semirigid tritopic linker obtained by "click" chemistry. <b>2007</b> , 129, 12614-5	58
2167	Ultramicroporous metal-organic framework based on 9,10-anthracenedicarboxylate for selective gas adsorption. <b>2007</b> , 46, 8499-501	128
2166	One-Dimensional Corrugated Tape Agl Coordination Polymers Constructed of Agâtī Bonds. <b>2007</b> , 7, 2024-203	<b>30</b> 38
2165	Hybrid Porous Solids. <b>2007</b> , 327-374	24
2164	Hydrogen storage in metalâBrganic frameworks. <b>2007</b> , 9, 438-448	265
2163	CO2 template synthesis of metal formates with a ReO3 net. <b>2007</b> , 46, 1612-6	26
2162	Interplay between covalent and aurophilic interactions in a series of isostructural 3D Hoffman-like frameworks containing bipyrimidine and dicyanoaurate bridges. X-Ray structure and magnetic properties of {(mu-Au(CN)(2)](2)[(M(NH(3))(2))(2)(mu-bpym)]}[Au(CN)(2)](2) (M = Ni(II), Co(II) and	26
2161	Stabilization of the 2D inclined interpenetrated net of {[Co(bpe)(tp)(H2O)2]n by replacement of lattice water molecules with appropriate solvent. <b>2007</b> , 9, 199	46
2160	Network structures with 2,2?-bipyridine-3,3?diol: a discrete Co(III) complex that forms a porous 3-D hydrogen bonded network, and Cu(II) coordination chains. <b>2007</b> , 9, 496-502	37

2159	Cobalt(II)-(dpyo)-dicarboxylate networks: unique H-bonded assembly and rare bridging mode of dpyo in one of them [dpyo = 4,4'-dipyridyl N,N'-dioxide]. <b>2007</b> , 1383-91	61
2158	A 3D chiral nanoporous coordination framework consisting of homochiral nanotubes assembled from octuple helices. <b>2007</b> , 4620-2	57
2157	An unprecedented twofold interpenetrating (3,4)-connected 3-D metal-organic framework. <b>2007</b> , 1707-9	44
2156	Preparation of stable and metastable coordination compounds: insight into the structural, thermodynamic, and kinetic aspects of the formation of coordination polymers. <b>2007</b> , 46, 8079-87	65
2155	A 3D MetalâDrganic Framework with Rare 3-Fold Interpenetrating Dia-g Nets Based on Silver(I) and Novel Tetradentate Imidazolate Ligand: Synthesis, Structure, and Possible Ferroelectric Property. <b>2007</b> , 7, 2268-2271	49
2154	Rare examples of transition-metal-main-group metal heterometallic metal-organic frameworks from gallium and indium dipyrrinato complexes and silver salts: synthesis and framework variability. <b>2007</b> , 46, 11213-23	116
2153	Magnetic bistability and single-crystal-to-single-crystal transformation induced by guest desorption. <b>2007</b> , 129, 5312-3	142
2152	Hydrogen storage: the remaining scientific and technological challenges. <b>2007</b> , 9, 2643-53	380
2151	Hydrogen and coordination bonding supramolecular structures of trimesic acid on Cu(110). <b>2007</b> , 111, 12589-603	107
2150	Simulations of Methane Adsorption and Diffusion within Alkoxy-Functionalized IRMOFs Exhibiting Severely Disordered Crystal Structures. <b>2007</b> , 111, 16618-16625	43
2149	Influence of the substituted side group on the molecular structure and electronic properties of TPP and related implications on organic zeolites use. <b>2007</b> , 111, 5031-3	13
2148	Syntheses, Characterization, and Luminescent Properties of Three 3D LeadâDrganic Frameworks with 1D Channels. <b>2007</b> , 7, 513-520	104
2147	Photoluminescent Zn(II) MetalâDrganic Frameworks Built from Tetrazole Ligand: ´2D Four-Connected Regular Honeycomb (4363)-net. <b>2007</b> , 7, 1227-1229	160
2146	Subtle Structural Changes in Coordination Chains: Influence of the Flexibility of the Precursor Ligands and of the Solvent. <b>2007</b> , 7, 1811-1817	27
2145	Novel Alternating Ferro-Ferromagnetic Two-Dimensional (4,4) and Photoluminescent Three-Dimensional Interpenetrating PtS-Type Coordination Networks Constructed from a New Flexible Tripodal Ligand as a Four-Connected Node. <b>2007</b> , 7, 747-754	100
2144	Raman Spectroscopic Investigation of CH4 and N2 Adsorption in MetalâDrganic Frameworks. <b>2007</b> , 19, 3681-3685	84
2143	Mercury(II) coordination polymers generated from 1,4-bis(2 or 3 or 4-pyridyl)-2,3-diaza-1,3-butadiene ligands. <b>2007</b> , 9, 704	94
2142	Taxonomy of periodic nets and the design of materials. <b>2007</b> , 9, 1035-43	227

2141	Solution infiltration of palladium into MOF-5: synthesis, physisorption and catalytic properties. <b>2007</b> , 17, 3827	414
2140	Lithium-doped metal-organic frameworks for reversible H2 storage at ambient temperature. <b>2007</b> , 129, 8422-3	403
2139	Four d10Metal Coordination Polymers Containing Isomeric Thiodiphthalic Ligands: 'Crystal Structures and Luminescent Properties. <b>2007</b> , 7, 1277-1283	88
2138	Gaseous species as reaction tracers in the solvothermal synthesis of the zinc oxide terephthalate MOF-5. <b>2007</b> , 111, 4259-66	43
2137	Porous metal-organic frameworks based on metal-organic polyhedra with nanosized cavities as supramolecular building blocks: two-fold interpenetrating primitive cubic networks of [Cu6L8]12+ nanocages. <b>2007</b> , 46, 10208-13	64
2136	(6,3)-honeycomb structures of uranium(VI) benzenedicarboxylate derivatives: the use of noncovalent interactions to prevent interpenetration. <b>2007</b> , 46, 6594-600	109
2135	Direct Synthesis from Various Tetraphosphonic Building Blocks of Homologous Hybrid-Layered Copper(II) Derivatives Incorporating Copper Hydrate Cations. <b>2007</b> , 7, 1881-1888	17
2134	Evidence of CO(2) molecule acting as an electron acceptor on a nanoporous metal-organic-framework MIL-53 or Cr(3+)(OH)(O(2)C-C(6)H(4)-CO(2)). <b>2007</b> , 3291-3	105
2133	Designed synthesis of 3D covalent organic frameworks. <b>2007</b> , 316, 268-72	1675
2132	Zinc(II) nitrite coordination polymers based on rigid and flexible organic nitrogen donor ligands. <b>2007</b> , 9, 686	56
2131	Highly Stable Diamondoid Network Coordination Polymer [Mn(NCP)2]n with Notable NLO, Magnetic, and Luminescence Properties. <b>2007</b> , 7, 2262-2264	81
2130	Design of Tetrathiafulvalene-Based Phosphazenes Combining a Good Electron-Donor Capacity and Possible Inclusion Adduct Formation (Part II). <b>2007</b> , 111, 4838-4846	28
2129	Molecular tectonics of metal-organic frameworks (MOFs): a rational design strategy for unusual mixed-connected network topologies. <b>2007</b> , 13, 2578-86	223
2128	Synchrotron X-ray charge-density study of coordination polymer [Mn(HCOO)2(H2O)2]infinity. <b>2007</b> , 13, 9775-90	28
2127	Improved designs of metal-organic frameworks for hydrogen storage. <b>2007</b> , 46, 6289-92	210
2126	Noble gases influence the conductance of cetineite-type nanoporous semiconductors. <b>2007</b> , 46, 6372-5	5
2125	Crystal structure and guest uptake of a mesoporous metal-organic framework containing cages of 3.9 and 4.7 nm in diameter. <b>2007</b> , 46, 8230-3	295
2124	Improved Designs of Metalâ©rganic Frameworks for Hydrogen Storage. <b>2007</b> , 119, 6405-6408	39

2123	Edelgase beeinflussen die Leitfligkeit von nanoporßen Cetineit-Halbleitern. <b>2007</b> , 119, 6491-6494	1
2122	[Fe3(HCOO)6]: A Permanent Porous Diamond Framework Displaying H2/N2 Adsorption, Guest Inclusion, and Guest-Dependent Magnetism. <b>2007</b> , 17, 1523-1536	143
2121	Synthesis, Crystal Structures and Thermal Properties of New ZnBr2(pyrimidine) Coordination Compounds. <b>2007</b> , 2007, 5353-5359	11
2120	Influence of the alkyl-chain on the symmetry and structural changes of Zn4O(RCO2)6 complexes in film phaseâAn FT-IR study. <b>2007</b> , 43, 227-236	9
2119	A new 2D HgII coordination polymer containing novel coordination mode of 2,5-bis(4-pyridyl)-1,3,4-oxadiazole (bpo) ligand, [Hg(Ebpo)2(N3)2]n: Spectroscopic, thermal, fluorescence and structural studies. <b>2007</b> , 10, 166-169	23
2118	[Tl2(EHtdp)2(EH2O)]n (H2tdp=4,4?-thiodiphenol) âlA one-dimensional thallium(I) coordination polymer with a large tetranuclear metallacycle: Thermal, emission and structural studies. <b>2007</b> , 10, 178-182	27
2117	A novel lamellar coordination polymer incorporating partially overlapped helices, ladders and zigzag chains âlsynthesis, crystal structure and magnetic property. <b>2007</b> , 10, 339-342	6
2116	Novel coordination mode of chloride ion in holo- and hemidirected one-dimensional PbII coordination polymer. <b>2007</b> , 10, 738-742	26
2115	Self-assembly of a two-dimensional cluster coordination polymer {[W2S8Cu8I4(bpe)2(py)2] [H2O]n: Crystal structure and luminescent properties. <b>2007</b> , 10, 1164-1167	7
2114	New approaches for medicinal applications of bioinorganic chemistry. <b>2007</b> , 11, 115-20	88
2113	Rediscovering the problem of interpretation of chromatographically determined enthalpy and entropy of adsorption of different adsorbates on carbon materials. Critical appraisal of literature data. <b>2007</b> , 1145, 1-50	31
2112	Thermal, spectroscopic and structural studies of dimeric and polymeric mixed-ligands cadmium(II) complexes, [Cd(phen)2(bpe)(H2O)](ClO4)2[H2O and [Cd(bpp)2(H2O)2](ClO4)2[bpe[H2O. <b>2007</b> , 360, 2056-2062]	5
2111	A 2D [FeII-bistetrazole] coordination polymer exhibiting spin-crossover properties. <b>2007</b> , 360, 3787-3796	26
2110	New coordination polymer based on a triply bridged dicarboxylate ligand: Synthesis, structure, and magnetic properties of the adipato complex [Cu4(bpy)4(adip)3](tcnoet)2[2H2O {bpy=C10H8N2; adip2âH[O2C(CH2)4CO2]2â[tcnoetâH[(NC)2CC(OEt)C(CN)2]â]. 2007, 360, 3879-3886	19
2109	[Hg(E4,4?-bipy)(EAcO)(AcO)]n[h/2H2O, one-dimensional double-chain coordination polymer, syntheses, characterization, thermal, fluorescence, porous and structural studies. <b>2007</b> , 360, 3196-3202	18
2108	129Xe NMR study of xenon in iso-reticular metalâBrganic frameworks. <b>2007</b> , 103, 341-351	38
2107	Cobalt(II) coordination polymers based on dicarboxylates and dipyridyl-type ligands:  [CoL1.5(NO3)2], [Co1.5(bpdc)1.5(dma)][(dma)[(EtOH), [Co1.5(ndc)1.5(dma)2], [Co3(ndc)3(dmf)4], and [CoL(bpdc)][(EtOH) (bpdcH2=biphenyl-4,4?-dicarboxylic acid, ndcH2=2,6-naphthalene	27
2106	dicarboxylic acid, L=pyCHNC10H6NCHpy). 2007, 841, 78-87  A noninterpenetrating 3D coordination network with rare (4,6)-connected (4\(\beta\)3\(\beta\)2(42\(\beta\)6\(\beta\)4\(\beta\)3) topology. 2007, 832, 132-137	19

2105	1D MnIIIâHeII heterometallic coordination polymer built by an approach of metalloligand. <b>2007</b> , 26, 929-932	7
2104	From discrete entity to three-dimensional architecture: Syntheses, crystal structures and optical properties of a series of transition metal complexes constructed from 4-carboxymethylbenzoic acid and 4,4?-bipyidine. <b>2007</b> , 26, 2829-2836	13
2103	Mercury thiocyanate coordination polymers generated from rigid or flexible organic nitrogen donor-based ligands. <b>2007</b> , 26, 2885-2893	35
2102	Syntheses, structures and magnetic properties of Mn(II) containing 3D polymeric networks. <b>2007</b> , 26, 5113-5119	19
2101	The 3,5-dimethyl-4-nitropyrazole ligand in the construction of supramolecular networks of silver(I) complexes. <b>2007</b> , 692, 4093-4105	19
2100	Crystalline oxyfluorinated open-framework compounds: Silicates, metal phosphates, metal fluorides and metal-organic frameworks (MOF). <b>2007</b> , 128, 413-422	67
2099	Poly[[tetraaquabis(5-carboxypyridine-2-carboxylato-@N,O)bis(@-pyridine-2,5-dicarboxylato-BN,O:O:O?:O??)diladihydrate]. <b>2007</b> , 63, m2069-m2070	nthanum 1
2098	Copper(II) and Manganese(II) Coordination Polymers of 5-Aminobenzene-1,3-dicarboxylic Acid (abdc) Ligand, Structural Studies of [Cu(🛭-abdc) (DMF)]n and {[Mn(🗗-abdc)(H2O)][H2O}n. <b>2007</b> , 633, 1107-1111	9
2097	Spectroscopy, thermal and structural studies of new ZnII coordination polymer, [Zn3(Ebpa)4.5(AcO)3](ClO4)3[4.26H2O. <b>2007</b> , 9, 1079-1084	12
2096	Metal-organic frameworksâNew materials for hydrogen storage. <b>2007</b> , 77, 721-739	23
2095	Application of clathrate compounds for hydrogen storage. <b>2007</b> , 77, 740-751	6
2094	Independent verification of the saturation hydrogen uptake in MOF-177 and establishment of a benchmark for hydrogen adsorption in metalâBrganic frameworks. <b>2007</b> , 17, 3197	485
2094	Independent verification of the saturation hydrogen uptake in MOF-177 and establishment of a benchmark for hydrogen adsorption in metalâBrganic frameworks. <b>2007</b> , 17, 3197  Enantiopure vs. racemic metalloligands: impact on metal-organic framework structure and synthesis. <b>2007</b> , 4881-3	109
	benchmark for hydrogen adsorption in metalâBrganic frameworks. <b>2007</b> , 17, 3197  Enantiopure vs. racemic metalloligands: impact on metal-organic framework structure and	
2093	benchmark for hydrogen adsorption in metalâBrganic frameworks. 2007, 17, 3197  Enantiopure vs. racemic metalloligands: impact on metal-organic framework structure and synthesis. 2007, 4881-3  Supramolecular assemblies of trinuclear triangular copper(II) secondary building units through hydrogen bonds. Generation of different metal-organic frameworks, valuable catalysts for	109
2093 2092 2091	benchmark for hydrogen adsorption in metalâBrganic frameworks. 2007, 17, 3197  Enantiopure vs. racemic metalloligands: impact on metal-organic framework structure and synthesis. 2007, 4881-3  Supramolecular assemblies of trinuclear triangular copper(II) secondary building units through hydrogen bonds. Generation of different metal-organic frameworks, valuable catalysts for peroxidative oxidation of alkanes. 2007, 46, 221-30  Diversity of Coordination Architecture of Copper(II)âB-Sulfoisophthalic Acid: Synthesis, Crystal	109 179 85
2093 2092 2091	Enantiopure vs. racemic metalloligands: impact on metal-organic framework structure and synthesis. 2007, 4881-3  Supramolecular assemblies of trinuclear triangular copper(II) secondary building units through hydrogen bonds. Generation of different metal-organic frameworks, valuable catalysts for peroxidative oxidation of alkanes. 2007, 46, 221-30  Diversity of Coordination Architecture of Copper(II)âB-Sulfoisophthalic Acid: Synthesis, Crystal Structures, and Characterization. 2007, 7, 1832-1843	109 179 85

#### (2008-2007)

2087	2007, 104, 20173-6	216
2086	Lanthanide(III)-cobalt(II) heterometallic coordination polymers with radical adsorption properties. <b>2007</b> , 46, 5832-4	115
2085	Chemistry of coordination space of porous coordination polymers. <b>2007</b> , 251, 2490-2509	800
2084	Amine functionalised metal organic frameworks (MOFs) as adsorbents for carbon dioxide. <b>2008</b> , 14, 755-762	371
2083	Poly[diaqua(mu-4,4'-bipyridine-kappa2N:N')bis(mu-cyanido-kappa2C:N)bis(cyanido-kappaC)nickel(II)copper(II) a metal-organic cyanide-bridged framework. <b>2008</b> , 64, m221-3	l: <sub>3</sub>
2082	On an Unexpected 2D-linked Rare Earth 1,2,4-Triazolate Network: Synthesis, Crystal Structure, Spectroscopic and Thermal Properties of \$_{infty}^{2}rm [Ho(Tz)_{3}(TzH)_{2}]TzH\$. <b>2008</b> , 634, 2973-2977	15
2081	A closer look: magnetic behavior of a three-dimensional cyanometalate coordination polymer dominated by a trace amount of nanoparticle impurity. <b>2008</b> , 14, 7156-67	14
2080	Pt@MOF-177: synthesis, room-temperature hydrogen storage and oxidation catalysis. <b>2008</b> , 14, 8204-12	252
2079	Structure and charge control in metal-organic frameworks based on the tetrahedral ligand tetrakis(4-tetrazolylphenyl)methane. <b>2008</b> , 14, 10280-5	100
2078	Synthesis, Crystal Structure and Thermal Reactivity of [ZnX2(2-chloropyrazine)] (X = Cl, Br, I) Coordination Compounds. <b>2008</b> , 2008, 605-611	14
2077	Base-Induced Formation of Two Magnesium Metal-Organic Framework Compounds with a Bifunctional Tetratopic Ligand. <b>2008</b> , 2008, 3624-3632	267
2076	Chemical Modification of a Bridging Ligand Inside a MetalâDrganic Framework while Maintaining the 3D Structure. <b>2008</b> , 2008, 1551-1554	152
2075	A 2D Layered MetalâDrganic Framework Constructed by Using a Hexanuclear Manganese Metallamacrocycle as a Supramolecular Building Block. <b>2008</b> , 2008, 5465-5470	21
2074	Gas storage in nanoporous materials. <b>2008</b> , 47, 4966-81	1325
2073	Structural effects of solvents on the breathing of metal-organic frameworks: an in situ diffraction study. <b>2008</b> , 47, 4100-5	180
2072	A porous coordination-polymer crystal containing one-dimensional water chains exhibits guest-induced lattice distortion and a dielectric anomaly. <b>2008</b> , 47, 3376-80	112
2071	Reversible redox reactions in an extended polyoxometalate framework solid. <b>2008</b> , 47, 6881-4	121
2070	Gasspeicherung in nanoporßen Materialien. <b>2008</b> , 120, 5044-5059	199

2069	Structural Effects of Solvents on the Breathing of MetalâDrganic Frameworks: An In Situ Diffraction Study. <b>2008</b> , 120, 4168-4173	34
2068	A Porous Coordination-Polymer Crystal Containing One-Dimensional Water Chains Exhibits Guest-Induced Lattice Distortion and a Dielectric Anomaly. <b>2008</b> , 120, 3424-3428	16
2067	Reversible Redox Reactions in an Extended Polyoxometalate Framework Solid. <b>2008</b> , 120, 6987-6990	29
2066	Mercury(II) iodide coordination polymers generated from polyimine ligands. 2008, 27, 1070-1078	50
2065	Silver coordination polymers and networks based on O- or S-heterocyclic linking ligands: [AgL12](PF6), [Ag2L23](PF6)2, [Ag2L23](ClO4)2, [Ag2L22](BF4)2, and [Ag2L2(NO3)2] (L1 = 1,2-bis(thiophen-2-ylmethylene)hydrazine; L2 = 1,2-bis(furan-2-ylmethylene)hydrazine). <b>2008</b> , 27, 1229-1237	23
2064	An investigation of the positional isomeric effect of terpyridine derivatives: Self-assembly of novel cadmium coordination architectures driven by N-donor covalence and Thon-covalent interactions. 2008, 27, 1517-1526	43
2063	Anion dependent formation of Ag(I) complexes of multidentate azine ligands: Synthesis and structural study. <b>2008</b> , 27, 2681-2687	17
2062	Gas permeability properties of Matrimid□ membranes containing the metal-organic framework CuâBPYâ⊞FS. <b>2008</b> , 313, 170-181	297
2061	Syntheses, structures and luminescence properties of lanthanide coordination polymers with helical character. <b>2008</b> , 181, 2099-2107	24
2060	Solvothermal synthesis, structure and luminescent properties of a new 3D coordination polymer [K2Cd(Htda)2]n (Htda = 1,2,3-triazole-4,5-dicarboxylate). <b>2008</b> , 11, 225-229	31
2059	A novel germanium(IV) oxalate complex: [Ge(OH)2(C2O4)2]2â[12008, 11, 283-287	8
2058	Antiferromagnetic interactions in melamine-bridged trinuclear cobalt complex. <b>2008</b> , 11, 279-282	23
2057	Solvothermal synthesis and characterization of a lithium coordination polymer possessing a highly stable 3D network structure. <b>2008</b> , 11, 396-399	21
2056	Unusual 2D assembly of the paddle wheel Cd2(COO)4 units in a luminescent complex. <b>2008</b> , 11, 659-661	13
2055	A novel three-dimensional 3dâ¤f heterometallic coordination polymer: Crystal structure and photoluminescence. <b>2008</b> , 11, 1030-1032	20
2054	A three-dimensional coordination polymer constructed from sodium(I) ion and benzene-1,2,4-tricarboxylate ligand: Thermal, structure and spectroscopic characteristics. <b>2008</b> , 11, 1091-1095	3 <sup>19</sup>
2053	Ionothermal synthesis of a 3D ZnâBTC metal-organic framework with distorted tetranuclear [Zn4(월-O)] subunits. <b>2008</b> , 11, 1190-1193	63
2052	Anion-dependent assemblies of two unprecedented copper(II) polymers with four-fold screw axes and trapped sodium chains. <b>2008</b> , 11, 1280-1283	9

2051	Syntheses and functions of porous metallosupramolecular networks. <b>2008</b> , 252, 1007-1026	364
2050	Room temperature synthesis of metal-organic frameworks: MOF-5, MOF-74, MOF-177, MOF-199, and IRMOF-0. <b>2008</b> , 64, 8553-8557	674
2049	Coordination geometry isomerism induced by NâH?Cl, CâH?Cl, CâH?N, CâH?Land 四 supramolecular interactions in mercury(II) complexes with tripyridylimidazole chelating ligands. <b>2008</b> , 361, 248-254	22
2048	Controllable synthesis of 1D, 2D and 3D networks: Three novel metalaBrganic coordination compounds from 1,3-thiazolidine-2-thione ligand and silver salts. <b>2008</b> , 361, 1819-1826	11
2047	Four mixed-ligands lead(II) complexes based on 8-hydroxyquinolin (8-HQuin), [Pb(8-Quin)X]; X = 4-pyridinecarboxylate, acetate, thiocyanate and nitrate; structural and thermal studies. <b>2008</b> , 361, 1875-1884	13
2046	Octahedral hexanuclear complexes involving light lanthanide ions. <b>2008</b> , 361, 2349-2356	20
2045	Sterically-induced synthesis of 3dâlf one-dimensional compounds: A new route towards 3dâlf single chain magnets. <b>2008</b> , 361, 3997-4003	45
2044	Equilibrium, kinetics and enthalpy of hydrogen adsorption in MOF-177. <b>2008</b> , 33, 7479-7488	92
2043	Microporous coordination polymers of cobalt(II) and manganese(II) 2,6-naphthalenedicarboxylate: preparations, structures and gas sorptive and magnetic properties. <b>2008</b> , 111, 470-477	59
2042	Manufacture of dense coatings of Cu3(BTC)2 (HKUST-1) on ⊞lumina. <b>2008</b> , 113, 132-138	271
2041	A novel wavelike chain constructed from WellsâDawson type polyoxoanions and mixed-ligand decorated transition metal complex cations [Ni(phen)(bbi)2]2+. <b>2008</b> , 875, 75-79	15
2040	Thermal, fluorescence, solution and structural studies of one-dimensional AgI coordination polymer with AgâAg and AgâInteractions. <b>2008</b> , 891, 132-137	17
2039	Reaction-condition-controlled formation of secondary-building-units in three cadmium metalâBrganic frameworks with an orthogonal tetrakis(tetrazolate) ligand. <b>2008</b> , 890, 163-169	27
2038	Loading of MOF-5 with Cu and ZnO Nanoparticles by Gas-Phase Infiltration with Organometallic Precursors: Properties of Cu/[email´protected] as Catalyst for Methanol Synthesis. <b>2008</b> , 20, 4576-4587	240
2037	Hierarchical zeolites: enhanced utilisation of microporous crystals in catalysis by advances in materials design. <b>2008</b> , 37, 2530-42	1413
2036	New sorbents for hydrogen storage by hydrogen spillover âla review. <b>2008</b> , 1, 268	297
2035	Further investigation of the effect of framework catenation on hydrogen uptake in metal-organic frameworks. <b>2008</b> , 130, 15896-902	141
2034	Mixed-valence Cu(II)Cu(I)15I17 cluster builds up a 3D metal-organic framework with paramagnetic and thermochromic characteristics. <b>2008</b> , 47, 7948-50	49

2033	Octahedral tilting in MM'X4 metal-oxide organic layer structures. <b>2008</b> , 47, 4746-51	14
2032	Metal-organic framework as a template for porous carbon synthesis. <b>2008</b> , 130, 5390-1	1403
2031	Hybrid porous solids: past, present, future. <b>2008</b> , 37, 191-214	5029
2030	Phase selection and discovery among five assembly modes in a coordination polymerization. <b>2008</b> , 47, 7751-6	73
2029	Two highly-connected, chiral, porous coordination polymers featuring novel heptanuclear metal carboxylate clusters. <b>2008</b> , 4019-21	88
2028	Mechanical gas capture and release in a network solid via multiple single-crystalline transformations. <b>2008</b> , 7, 229-35	167
2027	Systematic functionalization of a metal-organic framework via a postsynthetic modification approach. <b>2008</b> , 130, 8508-17	335
2026	Nanoparticles of a new mercury(II) coordination polymer: synthesis, characterization, thermal and structural studies. <b>2008</b> , 61, 2787-2792	5
2025	The Coordination Chemistry of Benzimidazole-5,6-dicarboxylic Acid with Mn(II), Ni(II), and Ln(III) Complexes (Ln = Tb, Ho, Er, Lu). <b>2008</b> , 8, 2299-2306	78
2024	Spectroscopic, thermal and structural studies of a new mercury(II) one-dimensional coordination polymer, [Hg(3-bpo)2(SCN)2], 3-bpo = 2,5- bis (3-pyridyl)-1,3,4-oxadiazole. <b>2008</b> , 61, 2227-2233	2
2023	Coordination networks from a bifunctional molecule containing carboxyl and thioether groups. <b>2008</b> , 47, 7459-61	40
2022	Computational Study of CO2Storage in MetalâDrganic Frameworks. <b>2008</b> , 112, 1562-1569	222
2021	Covalent Metalâ <b>P</b> eptide Framework Compounds That Extend in One and Two Dimensions. <b>2008</b> , 8, 296-303	45
2020	Bipyridine-Mediated Assembling Characteristics of Aromatic Acid Derivatives. 2008, 112, 10141-10144	41
2019	Understanding Water Adsorption in Cuâ <b>B</b> TC MetalâDrganic Frameworks. <b>2008</b> , 112, 15934-15939	159
2018	MetalâØrganic Frameworks Based on Double-Bond-Coupled Di-Isophthalate Linkers with High Hydrogen and Methane Uptakes. <b>2008</b> , 20, 3145-3152	231
2017	Periodic Nanostructures Based on MetalâØrganic Frameworks (MOFs): En Route to Zeolite-Like MetalâØrganic Frameworks (ZMOFs). 251-274	12
2016	Hydrogen-bond-directing effect in the ionothermal synthesis of metal coordination polymers. <b>2008</b> , 3989-94	46

2015	Chemistry and application of flexible porous coordination polymers. <b>2008</b> , 9, 014108	173
2014	Gas-phase loading of [Zn4O(btb)2] (MOF-177) with organometallic CVD-precursors: inclusion compounds of the type [LnM]a@MOF-177 and the formation of Cu and Pd nanoparticles inside MOF-177. <b>2008</b> , 18, 5274	85
2013	Syntheses, structures, photoluminescence, and magnetic properties of nanoporous 3D lanthanide coordination polymers with 4,4?-biphenyldicarboxylate ligand. <b>2008</b> , 10, 1237	65
2012	Unconventional metal organic frameworks: porous cross-linked phosphonates. 2008, 6089-102	127
2011	Understanding inflections and steps in carbon dioxide adsorption isotherms in metal-organic frameworks. <b>2008</b> , 130, 406-7	458
2010	From microporous regular frameworks to mesoporous materials with ultrahigh surface area: dynamic reorganization of porous polymer networks. <b>2008</b> , 130, 13333-7	481
2009	Liquid phase adsorption by microporous coordination polymers: removal of organosulfur compounds. <b>2008</b> , 130, 6938-9	345
2008	Proton and water activity-controlled structure formation in zinc carboxylate-based metal organic frameworks. <b>2008</b> , 112, 7567-76	130
2007	1,3,5-Tris(functionalised-phenylethynyl)benzeneâthetal complexes: synthetic survey of mesoporous coordination polymers and investigation of their carbonisation. <b>2008</b> , 18, 1037	16
2006	Microperoxidase-11 Immobilized in a Metal Organic Framework. <b>2008</b> , 76-98	5
2006	Microperoxidase-11 Immobilized in a Metal Organic Framework. 2008, 76-98  Exceptional behavior over the whole adsorption-storage-delivery cycle for NO in porous metal organic frameworks. 2008, 130, 10440-4	357
	Exceptional behavior over the whole adsorption-storage-delivery cycle for NO in porous metal	
2005	Exceptional behavior over the whole adsorption-storage-delivery cycle for NO in porous metal organic frameworks. <b>2008</b> , 130, 10440-4  Covalent modification of a metal-organic framework with isocyanates: probing substrate scope and	357
2005	Exceptional behavior over the whole adsorption-storage-delivery cycle for NO in porous metal organic frameworks. 2008, 130, 10440-4  Covalent modification of a metal-organic framework with isocyanates: probing substrate scope and reactivity. 2008, 3366-8  New Network Structures from Cu(II) Complexes of Chelating Ligands with Appended Hydrogen Bonding Sites. 2008, 8, 643-653  Crystal structure and magnetic properties of two isomeric three-dimensional	357
2005	Exceptional behavior over the whole adsorption-storage-delivery cycle for NO in porous metal organic frameworks. 2008, 130, 10440-4  Covalent modification of a metal-organic framework with isocyanates: probing substrate scope and reactivity. 2008, 3366-8  New Network Structures from Cu(II) Complexes of Chelating Ligands with Appended Hydrogen Bonding Sites. 2008, 8, 643-653  Crystal structure and magnetic properties of two isomeric three-dimensional	357 112 49
2005 2004 2003 2002	Exceptional behavior over the whole adsorption-storage-delivery cycle for NO in porous metal organic frameworks. 2008, 130, 10440-4  Covalent modification of a metal-organic framework with isocyanates: probing substrate scope and reactivity. 2008, 3366-8  New Network Structures from Cu(II) Complexes of Chelating Ligands with Appended Hydrogen Bonding Sites. 2008, 8, 643-653  Crystal structure and magnetic properties of two isomeric three-dimensional pyromellitate-containing cobalt(II) complexes. 2008, 47, 8053-61  Control of structures and sorption properties of ionic crystals of A2[Cr3O(OOCC2H5)6(H2O)3]2[alpha-SiW12O40] (A = Na, K, Rb, NH4, Cs, TMA). 2008, 47, 3349-57  Corrugated and nanoporous silica microspheres: synthesis by controlled etching, and improving	357 112 49 66
2005 2004 2003 2002 2001	Exceptional behavior over the whole adsorption-storage-delivery cycle for NO in porous metal organic frameworks. 2008, 130, 10440-4  Covalent modification of a metal-organic framework with isocyanates: probing substrate scope and reactivity. 2008, 3366-8  New Network Structures from Cu(II) Complexes of Chelating Ligands with Appended Hydrogen Bonding Sites. 2008, 8, 643-653  Crystal structure and magnetic properties of two isomeric three-dimensional pyromellitate-containing cobalt(II) complexes. 2008, 47, 8053-61  Control of structures and sorption properties of ionic crystals of A2[Cr3O(OOCC2H5)6(H2O)3]2[alpha-SiW12O40] (A = Na, K, Rb, NH4, Cs, TMA). 2008, 47, 3349-57  Corrugated and nanoporous silica microspheres: synthesis by controlled etching, and improving	357 112 49 66 30

1997	Effect of the nature of the metal on the breathing steps in MOFs with dynamic frameworks. 2008, 4732-4	245
1996	The influence of pH on coordination of phthalate to copper(II). <b>2008</b> , 61, 2288-2295	6
1995	Ideal metal-decorated three dimensional covalent organic frameworks for reversible hydrogen storage. <b>2008</b> , 92, 173102	52
1994	New lanthanide based coordination polymers with high potential porosity. <b>2008</b> , 451, 377-383	39
1993	Metal-organic framework from an anthracene derivative containing nanoscopic cages exhibiting high methane uptake. <b>2008</b> , 130, 1012-6	756
1992	Role of temperature and time in the formation of infinite -M-O-M- linkages and isolated clusters in MOFs: a few illustrative examples. <b>2008</b> , 47, 8451-63	144
1991	Crystal form, defects and growth of the metal organic framework HKUST-1 revealed by atomic force microscopy. <b>2008</b> , 10, 646	92
1990	Microwave-Assisted Solvothermal Synthesis of a Dynamic Porous Metal-Carboxylate Framework. <b>2008</b> , 8, 4559-4563	73
1989	1,3,5-Benzene-tri-p-phenylphosphonic Acid. A New Building Block in Supramolecular Chemistry. <b>2008</b> , 8, 3271-3276	24
1988	Control of vertex geometry, structure dimensionality, functionality, and pore metrics in the reticular synthesis of crystalline metal-organic frameworks and polyhedra. <b>2008</b> , 130, 11650-61	467
1987	Molecular Fabric Structure Formed by the 1D Coordination Polymer, [Pb(bpe)(O2CCH3)(O2CCF3)]. <b>2008</b> , 8, 375-377	28
1986	Thermodynamic trends in the uptake capacity of porous adsorbents on methane and hydrogen. <b>2008</b> , 92, 201911	7
1985	Metal-organic frameworks with high capacity and selectivity for harmful gases. 2008, 105, 11623-7	714
1984	Delamination, synthesis, crystal structure and thermal properties of the layered metal-organic compound Zn(C12H14O4). <b>2008</b> , 18, 1002	40
1983	A designed metal-organic framework based on a metal-organic polyhedron. 2008, 2340-2	127
1982	Manipulation of molecular aggregation and supramolecular structure using self-assembled lithium mixed-anion complexes. <b>2008</b> , 3429-37	14
1981	Hydrothermal syntheses, structures and luminescent properties of d10 metalâBrganic frameworks based on rigid 3,3?,5,5?-azobenzenetetracarboxylic acid. <b>2008</b> , 10, 1395	116
1980	Loading-dependent structures of CO2 in the flexible molecular van der Waals host p-tert-butylcalix[4]arene with 1 : 1 and 2 : 1 guest-host stoichiometries. <b>2008</b> , 10, 4636-43	35

# (2008-2008)

1979	Three Novel Heterobimetallic Cd/ZnâNa Coordination Polymers: Syntheses, Crystal Structure, and Luminescence. <b>2008</b> , 8, 3706-3712	84
1978	Rational Design and Control of the Dimensions of Channels in a Series of 3D Pillared MetalâDrganic Frameworks: Synthesis, Structures, Adsorption, and Luminescence Properties. <b>2008</b> , 8, 427-434	71
1977	Assembly of a Cluster-Based Coordination Polymer from a Linear Trimetallic Building Block Surrounded by Flexible Hingelike Ligands. <b>2008</b> , 8, 2052-2054	21
1976	Surface morphology of nanostructured polymer-based activated carbons. <b>2008</b> , 112, 14364-72	11
1975	Coordination architectures of 2-(1H-tetrazol-5-yl)pyrazine with group IIB metal ions: luminescence and structural dependence on the metal ions and preparing conditions. <b>2008</b> , 10, 699	53
1974	CW and Pulsed ESR Spectroscopy of Cupric Ions in the Metalâ©rganic Framework Compound Cu3(BTC)2. <b>2008</b> , 112, 2678-2684	89
1973	Guest Loading and Multiple Phases in Single Crystals of the van der Waals Host ptert-Butylcalix[4]arene. <b>2008</b> , 8, 1878-1885	38
1972	New framework iodoargentates: M(en)3Ag2I4 (M=Zn, Ni) with tridymite topology. <b>2008</b> , 47, 3922-4	64
1971	Multi-dimensional transition-metal coordination polymers of 4,4'-bipyridine-N,N'-dioxide: 1D chains and 2D sheets. <b>2008</b> , 47, 8652-64	77
1970	Porous metal-organic framework based on mu4-oxo tetrazinc clusters: sorption and guest-dependent luminescent properties. <b>2008</b> , 47, 1346-51	180
1969	Novel InorganicâDrganic Hybrid Frameworks of Manganese(II): Syntheses, Crystal Structures, and Physical Properties. <b>2008</b> , 8, 1924-1931	52
1968	Increasing the density of adsorbed hydrogen with coordinatively unsaturated metal centers in metal-organic frameworks. <b>2008</b> , 24, 4772-7	240
1967	Hydrothermal synthesis and characterization of LaIII and CuII coordination polymers with 5-nitroisophthalic acid (H2Nip), [La2(ENip)(ESO4)2(H2O)5] n and {[Cu3(EOH)2(ENip)2(EH2O)2] [] 2H2O} n. <b>2008</b> , 61, 2905-2915	6
1966	Metal-organic framework materials for hydrogen storage. <b>2008</b> , 288-312	4
1965	A novel Metal-Organic Framework with pcu topology constructed from cadmium and 1, 4-diaza-bicyclo [2.2.2] octane-N, NâEdioxide. <b>2008</b> , 435-440	
1964	Carbon nanostructures for hydrogen storage. <b>2008</b> , 261-287	4
1963	Shape of the hydrogen adsorption regions of MOF-5 and its impact on the hydrogen storage capacity. <b>2008</b> , 78,	13
1962	Synthesis, Crystal Structure and Properties of a New 2D-Coordination polymer, [Cu4L2(H2O)8][4H2On, (H4L = 2,2?,2?,2?-[2,5-dimethyl-1,4-phenyle-nebis(methylenenitrilo)]tetraacetic acid). <b>2008</b> , 38, 721-726	2

1961	Immobilization of Molecular Catalysts. <b>2008</b> , 583	2
1960	Chemistry and Applications of Porous MetalâDrganic Frameworks. 2008, 247	1
1959	Origin of the exceptional negative thermal expansion in metal-organic framework-5 Zn4O(1,4âBenzenedicarboxylate)3. <b>2008</b> , 78,	112
1958	. 2008,	37
1957	Supramolecular Materials: MetalâQuinonoid Complexes. 2009,	
1956	Synchrotron powder structure of a new layered lanthanide-organic network. <b>2009</b> , 224,	20
1955	Scintillating Metal Organic Frameworks: A New Class of Radiation Detection Materials. 2009, 1164, 1	2
1954	Reticular Chemistry and Metal-Organic Frameworks for Clean Energy. <b>2009</b> , 34, 682-690	70
1953	Self-Assembly and Structure of Cobalt(II) Complexes Using Diaminodiamide Ligands. 2009, 56, 916-922	2
1952	Synthesis, X-ray crystal structure, and magnetic property of a 3-D self-assembled supermolecule. <b>2009</b> , 62, 2307-2315	3
1951	Self-Assembly of Cluster-Based Nanoscopic Supramolecules into One-Dimensional Coordination Polymers. <b>2009</b> , 2009, 1-11	3
1950	Layered hybrid network based on preformed [Mo3S4(HNTA)3]2âlbuilding blocks and La3+ cations. <b>2009</b> , 11, 56-60	6
1949	Supramolecular âDouble-PropellerâDimers of Hexanuclear Cull/LnIII Complexes: A {Cu3Dy3}2 Single-Molecule Magnet. <b>2009</b> , 121, 1642-1647	33
1948	Enhancement of H2 adsorption in coordination framework materials by use of ligand curvature. <b>2009</b> , 15, 4829-35	106
1947	Metal-ion-dependent gas sorptivity of elastic layer-structured MOFs. <b>2009</b> , 15, 7549-53	60
1946	A New Series of Anhydrous Lanthanide-Based Octahedral Hexanuclear Complexes. <b>2009</b> , 2009, 3172-3178	23
1945	A New Manganese Coordination Polymer Containing 1,2,4-Benzenetricarboxylic Acid. <b>2009</b> , 2009, 3661-3666	16
1944	Porous polymers: enabling solutions for energy applications. <b>2009</b> , 30, 221-36	168

#### (2009-2009)

1943	Network Topology of a Hybrid Organic Zinc Phosphate with Bimodal Porosity and Hydrogen Adsorption. <b>2009</b> , 121, 6240-6243	20
1942	Systematic Metal Variation and Solvent and Hydrogen-Gas Storage in Supramolecular Nanoballs. <b>2009</b> , 121, 9081-9084	51
1941	Eine mesoporte Metall-organische Gertetverbindung. <b>2009</b> , 121, 10139-10142	43
1940	Targeted Synthesis of a Porous Aromatic Framework with High Stability and Exceptionally High Surface Area. <b>2009</b> , 121, 9621-9624	263
1939	Supramolecular "double-propeller" dimers of hexanuclear Cu(II)/Ln(III) complexes: a {Cu3Dy3}2 single-molecule magnet. <b>2009</b> , 48, 1614-9	186
1938	Network topology of a hybrid organic zinc phosphate with bimodal porosity and hydrogen adsorption. <b>2009</b> , 48, 6124-7	71
1937	Systematic metal variation and solvent and hydrogen-gas storage in supramolecular nanoballs. <b>2009</b> , 48, 8919-22	144
1936	A mesoporous metal-organic framework. <b>2009</b> , 48, 9954-7	298
1935	Targeted synthesis of a porous aromatic framework with high stability and exceptionally high surface area. <b>2009</b> , 48, 9457-60	1115
1934	Determination of absolute adsorption in highly ordered porous media. <b>2009</b> , 603, 1979-1984	52
1933	Mixed-matrix membranes containing MOF-5 for gas separations. <b>2009</b> , 328, 165-173	472
1932	Solvent resistant nanofiltration (SRNF) membranes based on metal-organic frameworks. <b>2009</b> , 344, 190-198	221
1931	Synthesis, crystal structure and optical properties of a novel 1D coordination polymer [Zn3(C7H2NO5)2ß(H2O)]n. <b>2009</b> , 921, 323-327	19
1930	Synthesis and characterization of Mn3O4 nanoparticles via thermal decomposition of a new synthesized hydrogen bonded polymer. <b>2009</b> , 938, 10-14	26
1929	Thermal investigation and infrared evolved gas analysis of light lanthanide(III) complexes with pyridine-3,5-dicarboxylic acid. <b>2009</b> , 86, 239-244	20
1928	Water sorption characteristics of carbon nanostructures calculated on the basis of the Ornsteinâ Zernike equation. <b>2009</b> , 52, 802-810	
1927	Effect of structural and thermodynamic factors on the sorption of hydrogen by metalâBrganic framework compounds. <b>2009</b> , 45, 75-97	22
1926	Synthesis, Structure and Luminescent Property of a Novel Lanthanide Metal-Organic Coordination Polymer Yb3(BDC)4.5(DMF)2(H2O)3 [(DMF)2. <b>2009</b> , 39, 688-691	4

1925	Preparation and Electrochemistry Properties of a New Polyoxometalate-Based Supramolecular Assembly. <b>2009</b> , 635, NA-NA	1
1924	Three Lead(II) Complexes in One Coordination Polymer, [Pb(TpyCl)Cl][Pb(TpyCl)Cl2][PbCl3](CH3OH). <b>2009</b> , 635, 1523-1526	9
1923	A novel threefold-interpenetrating primitive cubic network based on a dinuclear Zn2 node. <b>2009</b> , 65, m82-5	3
1922	Fabrication of MOF-5 membranes using microwave-induced rapid seeding and solvothermal secondary growth. <b>2009</b> , 123, 100-106	262
1921	Graphite particles with a âpuffedâßtructure and enhancement in mechanical performance of their epoxy composites. <b>2009</b> , 525, 138-146	26
1920	Nanoporous metal organic framework materials for hydrogen storage. <b>2009</b> , 7, 129-140	44
1919	Supramolecular salts containing the anionic [Ge(C2O4)3]2âl£omplex and heteroaromatic amines. <b>2009</b> , 362, 263-270	10
1918	Crystal engineering of mixed-ligand frameworks: Ligand-directed assembly and structural diversity. <b>2009</b> , 362, 543-550	19
1917	The first two lanthanum-containing coordination polymers involving naphthalene-1,4,5,8-tetra-carboxylate as ligand. <b>2009</b> , 362, 1478-1484	11
1916	Tll benzene multicarboxylic acid coordination polymers: Structural, thermal and fluorescence studies. <b>2009</b> , 362, 1692-1700	29
1915	Solid state coordination chemistry of the oxovanadium-diphosphonate/copper-bipyrimidine system: Crystal structures of [{Cu2(bpyr)}VO(H2O)(HO3PCH2PO3)2] and [{Cu2(bpyr)}{Cu2(bpyr)(H2O)2}(VO2)2(HO3PCH2PO3)2(HO3PCH2PO3H)2]. <b>2009</b> , 362, 1831-1839	14
1914	The lanthanide-containing cyclohexane-tri-carboxylate coordination polymers re-investigated. <b>2009</b> , 362, 2123-2126	11
1913	Synthesis and characterization of a novel photoluminescent three-dimensional metalâBrganic framework. <b>2009</b> , 362, 2510-2514	6
1912	Four copper(II) coordination polymers with a tetrachlorinated benzenedicarboxylate ligand: Solvent effect on diversiform supramolecular arrays. <b>2009</b> , 362, 2569-2576	31
1911	Synthesis, crystal and band structures, and optical and magnetic properties of a 1D copper coordination polymer with chelidamic acid ligand. <b>2009</b> , 362, 4843-4848	20
1910	Synthesis, characterization and hydrogen adsorption in mixed crystals of MOF-5 and MOF-177. <b>2009</b> , 34, 2670-2678	45
1909	Synthesis of nanoporous graphite-derived carbon/TiO2âBiO2 composites by a mechanochemical intercalation method. <b>2009</b> , 118, 496-502	9
1908	A new nano-particles LaIII compound as a precursor for preparation of La2O2(SO4) nano-particles. <b>2009</b> , 935, 27-31	32

#### (2009-2009)

1907	frameworks. <b>2009</b> , 28, 647-652	43
1906	MetalâBrganic supramolecular assemblies generated from bismuth(III) bromide and polyimine ligands. <b>2009</b> , 28, 703-710	12
1905	Assembly of novel phenanthroline-based cobalt(II) coordination polymers by selecting dicarboxylate ligands with different spacer length: From 1-D chain to 3-D interpenetrated framework. <b>2009</b> , 694, 2263-2269	23
1904	Two three-dimensional silver(I) coordination architectures with pyridine-3,5-dicarboxylate: Luminescence and structural dependence on preparing conditions. <b>2009</b> , 182, 1761-1766	16
1903	Building thiol and metal-thiolate functions into coordination nets: Clues from a simple molecule. <b>2009</b> , 182, 1821-1826	46
1902	Coordination polymers constructed from transition metal ions and organic N-containing heterocyclic ligands: Crystal structures and microporous properties. <b>2009</b> , 34, 240-279	142
1901	Modeling gas adsorption in metal organic frameworks. <b>2009</b> , 1, 1273-1280	8
1900	Multifunctional zinc(II) urocanate with rare fivefold interpenetrating diamondoid network. <b>2009</b> , 12, 89-91	17
1899	Synthesis and characterization of strontium 1,3,5-benzenetricarboxylate, [Sr3(1,3,5-BTC)2(H2O)4][H2O. <b>2009</b> , 12, 351-354	20
1898	An unprecedented 3D honeycomb-shaped cobalt phosphonate containing sixfold helical chains: Synthesis, crystal structure and thermal stability. <b>2009</b> , 12, 552-554	4
1897	Novel 3-dimensional sixfold interpenetrating diamondoid networks of copper(I) coordination polymers of polypyridyl ligands âl syntheses, characterization and crystal structures. <b>2009</b> , 12, 1227-1230	14
1896	A chiral twofold interpenetrated diamond-like 3D In(III) coordination network with 4,4?,4?-phosphoryltribenzoate. <b>2009</b> , 12, 1238-1241	12
1895	Postsynthetic modification of metal-organic frameworks. <b>2009</b> , 38, 1315-29	1573
1894	Industrial applications of metal-organic frameworks. <b>2009</b> , 38, 1284-93	1866
1893	In situ synthesis of 5-substituted-tetrazoles and metallosupramolecular co-ordination polymers. <b>2009</b> , 11, 67-81	37
1892	A porous coordination copolymer with over 5000 m2/g BET surface area. <b>2009</b> , 131, 4184-5	420
1891	Tunability of electronic band gaps from semiconducting to metallic states via tailoring Zn ions in MOFs with Co ions. <b>2009</b> , 11, 628-31	71

1889	Microporous coordination polymers as selective sorbents for liquid chromatography. 2009, 25, 11977-9	160
1888	Enabling cleaner fuels: desulfurization by adsorption to microporous coordination polymers. <b>2009</b> , 131, 14538-43	222
1887	A MOF-type magnesium benzene-1,3,5-tribenzoate with two-fold interpenetrated ReO3 nets. <b>2009</b> , 11, 58-60	53
1886	Structural Transitions and Flexibility during Dehydrationâ <b>R</b> ehydration Process in the MOF-type Aluminum Pyromellitate Al2(OH)2[C10O8H2] (MIL-118). <b>2009</b> , 9, 2927-2936	77
1885	Storage of hydrogen, methane, and carbon dioxide in highly porous covalent organic frameworks for clean energy applications. <b>2009</b> , 131, 8875-83	1843
1884	Secondary building units, nets and bonding in the chemistry of metal-organic frameworks. <b>2009</b> , 38, 1257-83	2025
1883	Rational designs for highly proton-conductive metal-organic frameworks. <b>2009</b> , 131, 9906-7	558
1882	Doping of metal-organic frameworks with functional guest molecules and nanoparticles. <b>2010</b> , 293, 77-113	28
1881	Mercury(II) metalâBrganic coordination polymers with pyrazine derivatives. <b>2009</b> , 11, 1868	27
1880	Directed Organization of Dye Aggregates in Hydrogen-Bonded Host Frameworks. <b>2009</b> , 9, 3803-3815	35
1879	Fuel Gas Storage and Separations by MetalâDrganic Frameworks: Simulated Adsorption Isotherms for H2 and CH4 and Their Equimolar Mixture. <b>2009</b> , 113, 6634-6642	85
1878	An Ab Initio Force Field for Predicting Hydrogen Storage in IRMOF Materials. <b>2009</b> , 113, 21815-21824	45
1877	Thermal, spectroscopic, X-ray powder diffraction, fluorescence, and structural studies of [Pb(E4-pyc)(EBr)] n, new mixed-anion lead(II) 3-D coordination polymers. <b>2009</b> , 62, 1784-1790	12
1876	A New Family of Bimetallic Framework Materials Showing Reversible Structural Transformations. <b>2009</b> , 9, 3104-3110	6
1875	A multifunctional 3D ferroelectric and NLO-active porous metal-organic framework. <b>2009</b> , 131, 6894-5	251
1874	Hydrothermal Synthesis, Structures, and Luminescent Properties of Seven d10 MetalâDrganic Frameworks Based on 9,9-Dipropylfluorene-2,7-Dicarboxylic Acid (H2DFDA). <b>2009</b> , 9, 1394-1401	92
1873	Series of Copper(II) Coordination Polymers Containing Aminopyrazine and Different Carboxylato Bridges: Syntheses, Structures and Magnetic Properties. <b>2009</b> , 9, 3318-3326	32
1872	Targeted synthesis of a prototype MOF based on Zn4(O)(O2C)6 units and a nonlinear dicarboxylate ligand. <b>2009</b> , 48, 417-9	63

#### (2009-2009)

1871	Distinct differences in self-assembly of aromatic linear dicarboxylic acids. <b>2009</b> , 25, 968-72	21
1870	Nanostructure and hydrogen spillover of bridged metal-organic frameworks. <b>2009</b> , 131, 1404-6	92
1869	Microwave synthesis and single-crystal-to-single-crystal transformation of magnesium coordination polymers exhibiting selective gas adsorption and luminescence properties. <b>2009</b> , 11, 1462	55
1868	New coordination polymers based on the triangular [Cu3(mu3-OH)(mu-pz)3]2+ unit and unsaturated carboxylates. <b>2009</b> , 4928-41	82
1867	Preparation and Enhanced Hydrostability and Hydrogen Storage Capacity of [email´protected] Hybrid Composite. <b>2009</b> , 21, 1893-1897	287
1866	Development of alternative photocatalysts to TiO2: Challenges and opportunities. <b>2009</b> , 2, 1231	1024
1865	Thermodynamics of hydrogen adsorption in MOF-177 at low temperatures: measurements and modelling. <b>2009</b> , 20, 204006	25
1864	In situ hydrothermal growth of metal-organic framework 199 films on stainless steel fibers for solid-phase microextraction of gaseous benzene homologues. <b>2009</b> , 81, 9771-7	315
1863	The effect of structural and energetic parameters of MOFs and COFs towards the improvement of their hydrogen storage properties. <b>2009</b> , 20, 204030	31
1862	Synthesis and characterization of a nickel-organic framework encapsulating hetero-chiral helical water chains in the 1-D channels. <b>2009</b> , 62, 2814-2823	7
1861	A porous coordination polymer exhibiting reversible single-crystal to single-crystal substitution reactions at Mn(II) centers by nitrile guest molecules. <b>2009</b> , 131, 10942-9	173
1860	Three new heterothiometallic cluster polymers with fascinating topologies. <b>2009</b> , 48, 5772-8	69
1859	Nanoporous crystals of calixarene/porphyrin supramolecular complex functionalized by diffusion and coordination of metal ions. <b>2009</b> , 131, 2487-9	58
1858	IM-19: a new flexible microporous gallium based-MOF framework with pressure- and temperature-dependent openings. <b>2009</b> , 11, 5241-5	47
1857	Combination between metalâlgand coordination and hydrogen bond interaction: a facile route for the construction of 3D coordination networks with the ability to include relatively large aromatic molecules. <b>2009</b> , 11, 2251	14
1856	Controllable Assembly, Structures, and Properties of Lanthanideâllransition Metalâlamino Acid Clusters. <b>2009</b> , 161-206	8
1855	Pd@MOF-5: limitations of gas-phase infiltration and solution impregnation of [Zn4O(bdc)3] (MOF-5) with metalabrganic palladium precursors for loading with Pd nanoparticles. <b>2009</b> , 19, 1314	110
1854	Large breathing effects in three-dimensional porous hybrid matter: facts, analyses, rules and consequences. <b>2009</b> , 38, 1380-99	1373

1853	Recent advances on simulation and theory of hydrogen storage in metal-organic frameworks and covalent organic frameworks. <b>2009</b> , 38, 1460-76	491
1852	Design and synthesis of metal-organic frameworks using metal-organic polyhedra as supermolecular building blocks. <b>2009</b> , 38, 1400-17	1527
1851	Porous Coordination Polymers Towards Gas Technology. <b>2009</b> , 96-106	
1850	Five related metal-organic frameworks constructed from [Ln2(SO4)2(H2O)n]2+ units and oxalate or acetate ligands. <b>2009</b> , 3447-56	18
1849	An amine-functionalized metal organic framework for preferential CO(2) adsorption at low pressures. <b>2009</b> , 5230-2	363
1848	Study on the Reaction of Polymeric Zinc Ferrocenyl Carboxylate with Pb(II) or Cd(II). 2009, 9, 4504-4513	50
1847	Computational Study on the Influences of Framework Charges on CO2 Uptake in MetalâDrganic Frameworks. <b>2009</b> , 48, 10479-10484	72
1846	Temperature and concentration control over interpenetration in a metal-organic material. <b>2009</b> , 131, 17040-1	353
1845	Rare earth metal squarates incorporating ethylene glycol ligand with a three-dimensional framework structure: $RE(C(4)O(4))(1.5)(C(2)H(6)O(2))$ (RE = Y, La-Nd, Sm-Lu). <b>2009</b> , 9781-6	18
1844	Design and Construction of MetalâDrganic Frameworks for Hydrogen Storage and Selective Gas Adsorption. <b>2009</b> , 353-373	2
1843	Some suggested perspectives for multifunctional hybrid porous solids. <b>2009</b> , 4400-15	158
1842	A novel heterometalâBrganic coordination polymer with chelidamic acid: nonlinear optical and magnetic properties,. <b>2009</b> , 11, 972	33
1841	The Long Story and the Brilliant Future of Crystallized Porous Solids. <b>2009</b> , 107-134	1
1840	Metal-organic frameworks impregnated with magnesium-decorated fullerenes for methane and hydrogen storage. <b>2009</b> , 131, 10662-9	113
1839	Methane Sorption in Nanoporous Metalâ©rganic Frameworks and First-Order Phase Transition of Confined Methane. <b>2009</b> , 113, 3029-3035	110
1838	Strong hydrogen binding within a 3D microporous metal-organic framework. <b>2009</b> , 48, 8656-8	74
1837	Stabilization of metal-organic frameworks with high surface areas by the incorporation of mesocavities with microwindows. <b>2009</b> , 131, 9186-8	297
1836	3-D lanthanide metal-organic frameworks: structure, photoluminescence, and magnetism. <b>2009</b> , 48, 1062-8	117

1835	Influence of the Benzoquinone Sorption on the Structure and Electrochemical Performance of the MIL-53(Fe) Hybrid Porous Material in a Lithium-Ion Battery. <b>2009</b> , 21, 1602-1611	191
1834	Supramolecular networks with 1-substituted benzotriazole ligands and transition metals. <b>2009</b> , 62, 3296-3305	5 5
1833	Docking in metal-organic frameworks. <b>2009</b> , 325, 855-9	314
1832	An unprecedented family of lanthanide-containing coordination polymers with highly tunable emission properties. <b>2009</b> , 48, 2837-43	121
1831	Molecular Simulation Study on the Separation of Xylene Isomers in MIL-47 Metalâ®rganic Frameworks. <b>2009</b> , 113, 20869-20874	57
1830	A nanotubular metal-organic framework with permanent porosity: structure analysis and gas sorption studies. <b>2009</b> , 4049-51	78
1829	Conformation preference of a flexible cyclohexanetetracarboxylate ligand in three new metal-organic frameworks: structures, magnetic and luminescent properties. <b>2009</b> , 48, 7194-200	54
1828	First-principles computational discovery of materials for hydrogen storage. <b>2009</b> , 180, 012076	10
1827	Metal-organic framework assembled from T-shaped and octahedral nodes: a mixed-linker strategy to create a rare anatase TiO2 topology. <b>2009</b> , 48, 9060-2	35
1826	Hydrogen, methane and carbon dioxide adsorption in metal-organic framework materials. <b>2010</b> , 293, 35-76	104
1825	Two Metal-Carboxylate Frameworks Featuring Uncommon 2D + 3D and 3-Fold-Interpenetration: (3,5)-Connected Isomeric hms and gra Nets. <b>2009</b> , 9, 2415-2419	68
1824	Postsynthetic modification: a versatile approach toward multifunctional metal-organic frameworks. <b>2009</b> , 48, 7341-9	180
1823	Self-Process-Programmed Structural Diversity in Supramolecular Assembly Based on Polyoxometalate Anion and Halogensubstituted Bipyridine Cation. <b>2009</b> , 9, 1225-1234	78
1822	Nanoscale Porous Materials for Water Treatment: Advances and Challenges. <b>2009</b> , 312-366	
1821	Electrostatic Potential Derived Atomic Charges for Periodic Systems Using a Modified Error Functional. <b>2009</b> , 5, 2866-78	227
1820	Organic materials for hydrogen storage applications: from physisorption on organic solids to chemisorption in organic molecules. <b>2009</b> , 2, 480	142
1819	Heterogeneous Catalysis and Solid Catalysts. 2009,	33
1818	Unusual three-dimensional coordination networks with [WS4Cu6] cluster nodes and £C3N4 topology. <b>2009</b> , 11, 605-609	18

1817	Modulation of tris(o-phenylenedioxy)cyclotrisphosphazene (TPP) properties for zeolite use: effect of pi-conjugation length and CH/N heterosubstitution. <b>2009</b> , 113, 246-54	2
1816	A 1D crystalline organic polyrotaxane formed viahydrogen bond-mediated self-assembly of a conformationally flexible tri-carboxylic acid. <b>2009</b> , 11, 1227	10
1815	Large H2 storage capacity of a new polyhedron-based metal-organic framework with high thermal and hygroscopic stability. <b>2009</b> , 5397-9	82
1814	Hydrothermal syntheses and structures of three novel coordination polymers assembled from 1,2,3-triazolate ligands. <b>2009</b> , 11, 1964	35
1813	Large pores generated by the combination of different inorganic units in a zinc hydroxide ethynylene diisophthalate MOF. <b>2009</b> , 1107-13	14
1812	2D Layered metalâBrganic frameworks built using a hexanuclear metallamacrocycle and an octanuclear metallamacrocycle as supramolecular building blocks. <b>2009</b> , 11, 770	22
1811	Second-sphere hydrogen-bonding in heteroditopic mercaptopyridinium copper(I) frameworks. <b>2009</b> , 11, 763	10
1810	Four 2D metalâBrganic networks incorporating Cd-cluster SUBs: hydrothermal synthesis, structures and photoluminescent properties. <b>2009</b> , 11, 122-129	95
1809	Improved organic hydrogen carriers with superior thermodynamic properties. 2009, 1751-3	9
1808	Lanthanide complexes in hybrid halometallate materials: interconversion between a novel 2D microporous framework and a 1D zigzag chain structure of iodoargentates templated by octakis-solvated terbium(III) cation. <b>2009</b> , 4954-61	41
1807	Construction of copper metalâBrganic systems based on paddlewheel SBU through altering the substituent positions of new flexible carboxylate ligands. <b>2009</b> , 11, 2516	39
1806	Two new metalâlīriazole-benzenedicarboxylate frameworks affording an uncommon 3,4-connected net and unique 4,6-connected rod packing: hydrothermal synthesis, structure, thermostability and luminescence studies. <b>2009</b> , 11, 1097	30
1805	Structural diversity and modulation of metalâBrganic coordination frameworks with a flexible V-shaped dicarboxyl building block. <b>2009</b> , 11, 855	32
1804	Hydrogen storage in 1D nanotube-like channels metalâBrganic frameworks: Effects of free volume and heat of adsorption on hydrogen uptake. <b>2009</b> , 34, 8135-8143	21
1803	High hydrogen storage capacity of porous carbons prepared by using activated carbon. <b>2009</b> , 131, 7016-22	427
1802	Heterobimetallic Tungsten/Molybdenum(IV)â©opper(II) MOFs Constructed by a Unique 2D -協D Architecture and Exhibiting New Topology and Magnetic Properties. <b>2009</b> , 9, 5351-5355	20
1801	Nanotechnologies for Water Environment Applications. 2009,	25
1800	Carboxylic acids: versatile building blocks and mediators for two-dimensional supramolecular self-assembly. <b>2009</b> , 25, 11307-21	178

1799 Nano-Microporous Materials: Hydrothermal Synthesis of Zeolites. **2009**,

1798 Ordered Microporous and Mesoporous Materials. <b>2009</b> , 243-329	1
1797 Positronium formation in porous materials for antihydrogen production. <b>2010</b> , 225, 012007	19
Syntheses of Metal-organic Framework Compounds Containing Ni-bipyridyl Complex for Oligomerization of Ethylene. <b>2010</b> , 53, 308-312	14
1795 FRONT MATTER. <b>2010</b> , i-xxvii	
Hydrogen Production from Water Using Novel Three-dimensional Interpenetrated Znâ <b>P</b> d Coordination Polymer. <b>2010</b> , 39, 878-880	15
1793 The application of metal-organic frameworks in catalysis (Review). <b>2010</b> , 50, 167-180	93
1792 Graphene synthesis via hydrogen induced low temperature exfoliation of graphite oxide. <b>2010</b> , 20,	, 8467 283
High capacity hydrogen storage materials: attributes for automotive applications and techniques for materials discovery. <b>2010</b> , 39, 656-75	867
Non-, micro-, and mesoporous metal-organic framework isomers: reversible transformation, fluorescence sensing, and large molecule separation. <b>2010</b> , 132, 5586-7	567
1789 The chemistry of graphene oxide. <b>2010</b> , 39, 228-40	8747
1788 Structural Stability of Metal Organic Framework MOF-177. <b>2010</b> , 1, 73-78	75
Facile synthesis of MOF-177 by a sonochemical method using 1-methyl-2-pyrrolidinone as a solvent <b>2010</b> , 39, 2883-7	t. <sub>133</sub>
The effect of the conformation of flexible carboxylate ligands on the structures of metalâBrganic supramolecules. <b>2010</b> , 34, 2496	15
Hydrazine and Thermal Reduction of Graphene Oxide: Reaction Mechanisms, Product Structures, and Reaction Design. <b>2010</b> , 114, 832-842	883
Anion-Controlled Assembly of Silver(I) Complexes of Multiring Heterocyclic Ligands: A Structural and Photophysical Study. <b>2010</b> , 10, 1269-1282	43
Four Novel Coordination Polymers Based on a Flexible Zwitterionic Ligand and Their Framework Dependent Luminescent Properties. <b>2010</b> , 10, 4590-4595	53
Reversible anion exchange and catalytic properties of two cationic metal-organic frameworks based on Cu(I) and Ag(I). <b>2010</b> , 132, 7202-9	237

1781	Liquid phase separations by crystalline microporous coordination polymers. <b>2010</b> , 1, 293	156
1780	Water stability of microporous coordination polymers and the adsorption of pharmaceuticals from water. <b>2010</b> , 26, 17198-202	364
1779	A framework for predicting surface areas in microporous coordination polymers. <b>2010</b> , 26, 5808-14	61
1778	Hydrogen Storage on Carbon-Based Adsorbents and Storage at Ambient Temperature by Hydrogen Spillover. <b>2010</b> , 52, 411-461	119
1777	Hydrogen physisorption in metalâ®rganic frameworks: concepts and quantum chemical calculations. <b>2010</b> , 127, 259-270	13
1776	Controlled growth of zinc oxide crystals with tunable shape. <b>2010</b> , 312, 947-952	16
1775	A novel combined manufacturing technique for rapid production of IRMOF-1 using ultrasound and microwave energies. <b>2010</b> , 165, 966-973	88
1774	Structural variations of SnII pyridylphosphonates influenced by an uncommon SnâN interaction. <b>2010</b> , 183, 1165-1173	17
1773	A series of new supramolecular structures constructed from triethylenediamine and different polyoxometalates. <b>2010</b> , 183, 2862-2868	9
1772	Layer-pillared zinc(II) metalâBrganic framework built from 4,4?-azo(bis)pyridine and 1,4-BDC. <b>2010</b> , 129, 354-359	24
1771	Optimal isosteric heat of adsorption for hydrogen storage and delivery using metalâBrganic frameworks. <b>2010</b> , 132, 300-303	116
1770	Molecular simulations of very high pressure hydrogen storage using metalâBrganic frameworks. <b>2010</b> , 135, 178-186	17
1769	A 2D Metal-Organic Framework with a Flexible Cyclohexane-1,2,5,6-tetracarboxylic Acid Ligand: Synthesis, Characterization and Photoluminescent Property. <b>2010</b> , 970, 14-18	13
1768	Syntheses and structural characterization of three coordination polymers of Cd(II), Zn(II) and Pb(II) with the âl/âl3hape ligand 4,4?-[isopropylidenebis(p-phenyleneoxy)]diacetic acid. <b>2010</b> , 964, 109-118	8
1767	One-step, solvothermal synthesis of graphene-CdS and graphene-ZnS quantum dot nanocomposites and their interesting photovoltaic properties. <b>2010</b> , 3, 794-799	166
1766	Organic ammonium ion-occluded flexible coordination polymers: Thermal activation, structure transformation and proton transfer. <b>2010</b> , 53, 2144-2151	15
1765	Properties, synthesis, and characterization of graphene. <b>2010</b> , 4, 45-51	42
1764	Preparation, Crystal Structure, and Properties of Five Metal-Organic Complexes Based on a Triangular Nonplanar Carboxylate Ligand. <b>2010</b> , 2010, 4822-4830	12

# (2010-2010)

1763	Single-Crystal-to-Single-Crystal Reversible Guest Inclusion and Structural Transformation. <b>2010</b> , 2010, 3829-3834	13
1762	Copper(I) in the Cleft: Syntheses, Structures and Catalytic Properties of {Cu+âto3+âtu+} and {Cu+âte3+âtu+} Heterobimetallic Complexes. <b>2010</b> , 2010, 4546-4554	4º
1761	Structural Investigation of Coordination Polymers Constructed from a Conformational Bis-triazole Ligand and V-Shaped Bridging Carboxylate Anions: Hydrothermal Syntheses, Crystal Structures, and Property Studies. <b>2010</b> , 2010, 5545-5555	45
1760	Evolution of nanoscale pore structure in coordination polymers during thermal and chemical exposure revealed by positron annihilation. <b>2010</b> , 22, 1598-601	51
1759	Ultrahigh surface area in porous solids. <b>2010</b> , 22, 5212-6	125
1758	Physisorption in Porous Materials. <b>2010</b> , 39-62	11
1757	Metallorganische Ger\(\text{Stverbindungen (MOFs). 2010, 82, 1019-1023}\)	13
1756	Porse organische Polymere: Muss Ordnung doch nicht sein?. <b>2010</b> , 122, 1575-1577	15
1755	Solid Solutions of Soft Porous Coordination Polymers: Fine-Tuning of Gas Adsorption Properties. <b>2010</b> , 122, 4930-4934	55
1754	An Isoreticular Series of MetalâDrganic Frameworks with Dendritic Hexacarboxylate Ligands and Exceptionally High Gas-Uptake Capacity. <b>2010</b> , 122, 5485-5489	91
1753	Direct Formation of Mesoporous Coesite Single Crystals from Periodic Mesoporous Silica at Extreme Pressure. <b>2010</b> , 122, 4397-4401	2
1752	Eine hochporße Metall-organische Gerßtverbindung mit zugßglichen Nickelzentren. <b>2010</b> , 122, 8667-8670	30
1751	Control of Interpenetration for Tuning Structural Flexibility Influences Sorption Properties. <b>2010</b> , 122, 7826-7830	38
1750	Ein Konzept und seine Umsetzung: Graphen gestern, heute und morgen. <b>2010</b> , 122, 9524-9532	53
1749	A Catenated Strut in a Catenated MetalâDrganic Framework. <b>2010</b> , 122, 6903-6907	26
1748	Urothermal Synthesis of Crystalline Porous Materials. <b>2010</b> , 122, 9060-9063	19
1747	Porous organic polymers: distinction from disorder?. <b>2010</b> , 49, 1533-5	137
1746	Solid solutions of soft porous coordination polymers: fine-tuning of gas adsorption properties. <b>2010</b> , 49, 4820-4	273

1745	An isoreticular series of metal-organic frameworks with dendritic hexacarboxylate ligands and exceptionally high gas-uptake capacity. <b>2010</b> , 49, 5357-61	622
1744	Direct formation of mesoporous coesite single crystals from periodic mesoporous silica at extreme pressure. <b>2010</b> , 49, 4301-5	18
1743	A highly porous metal-organic framework with open nickel sites. <b>2010</b> , 49, 8489-92	143
1742	Control of interpenetration for tuning structural flexibility influences sorption properties. <b>2010</b> , 49, 7660-4	173
1741	From conception to realization: an historial account of graphene and some perspectives for its future. <b>2010</b> , 49, 9336-44	621
1740	A catenated strut in a catenated metal-organic framework. <b>2010</b> , 49, 6751-5	96
1739	Urothermal synthesis of crystalline porous materials. <b>2010</b> , 49, 8876-9	172
1738	Metal-containing polymers: building blocks for functional (nano)materials. <b>2010</b> , 31, 331-50	102
1737	Influence of structural heterogeneity of nanoporous sorbent walls on hydrogen storage. <b>2010</b> , 256, 5270-527	413
1736	Synthesis, crystal structure and photoelectric property of two new coordination polymers constructed by longer-spanning suberic acid and 4,4'-bipyridine ligands. <b>2010</b> , 77, 749-54	5
1735	Ammonia adsorption and its effects on framework stability of MOF-5 and MOF-177. <b>2010</b> , 348, 615-20	142
1734	Adsorption of hydrogen in covalent organic frameworks: Comparison of simulations and experiments. <b>2010</b> , 133, 59-65	57
1733	Synthesis, characterization and X-ray crystallographic investigation of 2-D hybrid hydrogen bonded and rectangular grid networks in Cu(II) and Co(II) metal complexes. <b>2010</b> , 29, 1801-1809	17
1732	Microporous polyacrylate matrix containing hydrogen bonded nanotubular assemblies. <b>2010</b> , 51, 3360-3364	8
1731	Conformational isomerism and hydrogen-bonded motifs of anion assisted supramolecular self-assemblies using CuII/CoII salts and pyridine-4-acetamide. <b>2010</b> , 363, 387-394	20
1730	Syntheses, structures and magnetic properties of Mn(II), Co(II) and Ni(II) metalâBrganic frameworks constructed from 1,3,5-benzenetricarboxylate and formate ligands. <b>2010</b> , 363, 645-652	40
1729	The syntheses, characterizations, X-ray crystal structures and properties of Cu(I) complexes of a bis-bidentate schiff base ligand. <b>2010</b> , 363, 1707-1712	15
1728	Structural and magnetic characterization of a novel series of dinuclear Cu(II) complexes bridging by 2,5-pyrazine dicarboxylate. <b>2010</b> , 363, 1001-1007	17

### (2010-2010)

1727	Zinc and cadmium complexes of pyridyl-benzotriazole: Syntheses, structures and supramolecular interaction. <b>2010</b> , 363, 1320-1324	5
1726	Synthesis, crystal structures and luminescent properties of manganese and zinc complexes with in situ ligand formation of 3-amino-4-(5-tetrazolyl)-1H-pyrazole. <b>2010</b> , 363, 2512-2519	8
1725	A porous 3d-4f heterometallic metalâBrganic framework for hydrogen storage. <b>2010</b> , 35, 8166-8170	25
1724	Enhanced hydrogen storage capacity of Pt-loaded CNT@MOF-5 hybrid composites. <b>2010</b> , 35, 13062-13067	83
1723	Metal organic frameworks as NO delivery materials for biological applications. <b>2010</b> , 129, 330-334	186
1722	Incommensurate guest adsorption in bellows-shaped one-dimensional channels of porous coordination polymers. <b>2010</b> , 129, 296-303	23
1721	MOF-5 as an efficient heterogeneous catalyst for Friedelâ©rafts alkylation reactions. <b>2010</b> , 382, 246-253	141
1720	Structural and energetic factors in designing a nanoporous sorbent for hydrogen storage. <b>2010</b> , 357, 61-66	22
1719	Numerical estimation of hydrogen storage limits in carbon-based nanospaces. <b>2010</b> , 48, 223-231	50
1718	Synthesis of graphene nano-sheets using eco-friendly chemicals and microwave radiation. <b>2010</b> , 48, 2953-295	5 <b>7</b> 87
1718 1717	Synthesis of graphene nano-sheets using eco-friendly chemicals and microwave radiation. <b>2010</b> , 48, 2953-295 âllhimie douceâllA land of opportunities for the designed construction of functional inorganic and hybrid organic-inorganic nanomaterials. <b>2010</b> , 13, 3-39	237
1717	âllhimie douceâllA land of opportunities for the designed construction of functional inorganic and	,
1717	âthimie douceâtlA land of opportunities for the designed construction of functional inorganic and hybrid organic-inorganic nanomaterials. <b>2010</b> , 13, 3-39	237
1717 1716	âthimie douceâtlA land of opportunities for the designed construction of functional inorganic and hybrid organic-inorganic nanomaterials. <b>2010</b> , 13, 3-39  Electrocatalytic activity of BasoliteTM F300 metal-organic-framework structures. <b>2010</b> , 12, 632-635	<sup>2</sup> 37
1717 1716 1715	âlchimie douceâll A land of opportunities for the designed construction of functional inorganic and hybrid organic-inorganic nanomaterials. 2010, 13, 3-39  Electrocatalytic activity of BasoliteTM F300 metal-organic-framework structures. 2010, 12, 632-635  Synthesis and characterization of a novel 2D zinc(II) coordination polymer. 2010, 13, 220-222  Three new coordination polymers based on 4-oxo-1(4H)quinolineacetate: Synthesis, structures and	237 79 4
1717 1716 1715	âlthimie douceâllA land of opportunities for the designed construction of functional inorganic and hybrid organic-inorganic nanomaterials. <b>2010</b> , 13, 3-39  Electrocatalytic activity of BasoliteTM F300 metal-organic-framework structures. <b>2010</b> , 12, 632-635  Synthesis and characterization of a novel 2D zinc(II) coordination polymer. <b>2010</b> , 13, 220-222  Three new coordination polymers based on 4-oxo-1(4H)quinolineacetate: Synthesis, structures and luminescent properties. <b>2010</b> , 13, 322-325  A new 2D 5-connected coordination polymer based on 3,4-bis(pyridin-4-ylmethoxy)benzoic acid	237 79 4
1717 1716 1715 1714 1713	âthimie douceâtlA land of opportunities for the designed construction of functional inorganic and hybrid organic-inorganic nanomaterials. 2010, 13, 3-39  Electrocatalytic activity of BasoliteTM F300 metal-organic-framework structures. 2010, 12, 632-635  Synthesis and characterization of a novel 2D zinc(II) coordination polymer. 2010, 13, 220-222  Three new coordination polymers based on 4-oxo-1(4H)quinolineacetate: Synthesis, structures and luminescent properties. 2010, 13, 322-325  A new 2D 5-connected coordination polymer based on 3,4-bis(pyridin-4-ylmethoxy)benzoic acid ligand. 2010, 13, 932-934  Manipulation of Molecular and Supramolecular Structure in Cobalt(II) Complexes with	237 79 4 6 3

1709 Hydrogen adsorption on metal-organic framework MOF-177. <b>2010</b> , 15, 363-376	29
A series of isoreticular chiral metal-organic frameworks as a tunable platform for asymmetric catalysis. <b>2010</b> , 2, 838-46	759
1707 Networked molecular cages as crystalline sponges for fullerenes and other guests. <b>2010</b> , 2, 780-3	3 280
1706 . <b>2010</b> ,	280
1705 On the reticular construction concept of covalent organic frameworks. <b>2010</b> , 1, 60-70	106
Synthesis, Structure and Thermal Behavior of Oxalato-Bridged Rb+ and H3O+ Extended Frameworks with Different Dimensionalities. <b>2010</b> , 3, 1281-1301	9
1703 . <b>2010</b> ,	106
Synthesis and electrical conducting behavior of graphite nanoplatelet/polymer nanocomposites. <b>2010</b> , 315-346	1
1701 Metal-Organic Framework Materials. <b>2010</b> , 1-67	2
1700 Mesoscopic systems in the quantum realm: fundamental science and applications. <b>2010</b> , 1, 04300	)1 2
1699 Platinum group metal thiacrown complexes as precursors for self-assembly reactions. <b>2010</b> , 22, 1	109-121 5
1698 Sensitivity enhancement of vapor sensors with porous silicon resonant structures. <b>2010</b> ,	
Coordination polymers of various architectures built with mixed imidazole/benzimidazole and carboxylate donor ligands and different metal ions: syntheses, structural features and magnetic properties. <b>2010</b> , 34, 2502	27
Structure-directing role of graphene in the synthesis of metal-organic framework nanowire. <b>2010</b> 132, 14487-95	<b>0</b> , 350
1695 Functional Ligands and Complexes. <b>2010</b> , 92-108	
Syntheses, structures, and optical properties of two cadmium complexes with chelidamic acid. <b>20</b> $1694$ , $63$ , $56$ - $66$	13
1693 Aspects of crystal structure prediction: some successes and some difficulties. <b>2010</b> , 12, 8580-3	18
Four novel Zn(II)/Cd(II) metalâBrganic frameworks constructed from 1692 4?-(4-pyridyl)-4,2?:6?,4?-terpyridine: hydrothermal synthesis, crystal structures, and luminescent properties. <b>2010</b> , 12, 485-492	66

# (2010-2010)

16	591	Multiscale simulation and modelling of adsorptive processes for energy gas storage and carbon dioxide capture in porous coordination frameworks. <b>2010</b> , 3, 1469	130
16	690	Introduction of cavities up to 4 nm into a hierarchically-assembled metal-organic framework using an angular, tetratopic ligand. <b>2010</b> , 46, 5223-5	35
16	589	Reaction controlled assemblies of polyoxotungstates (-molybdates) and coordination polymers. <b>2010</b> , 49, 6474-83	95
16	588	Molecular Modeling of Adsorption and Diffusion in Metal-Organic Frameworks. <b>2010</b> , 313-339	8
16	687	Volumetric hydrogen sorption capacity of monoliths prepared by mechanical densification of MOF-177. <b>2010</b> , 20, 2145	101
16	686	Adsorption mechanism and uptake of methane in covalent organic frameworks: theory and experiment. <b>2010</b> , 114, 10824-33	156
16	585	A General Approach for Estimating Framework Charges in MetalâDrganic Frameworks. <b>2010</b> , 114, 5035-5042	108
1(	684	Incorporation of metallocenes into the channel structured Metal-Organic Frameworks MIL-53(Al) and MIL-47(V). <b>2010</b> , 39, 10990-9	53
16	583	A rutile-type porous zinc(II)-phosphonocarboxylate framework: local proton transfer and size-selected catalysis. <b>2010</b> , 46, 1100-2	58
1(	582	CO2/H2O adsorption equilibrium and rates on metal-organic frameworks: HKUST-1 and Ni/DOBDC. <b>2010</b> , 26, 14301-7	343
16	581	Highly emissive metal-organic framework composites by host-guest chemistry. <b>2010</b> , 9, 846-53	52
1(	680	Two Novel Metalâ©rganic Frameworks (MOFs) with (3,6)-Connected Net Topologies: Syntheses, Crystal Structures, Third-Order Nonlinear Optical and Luminescent Properties. <b>2010</b> , 10, 2613-2619	134
16	679	Ultrahigh porosity in metal-organic frameworks. <b>2010</b> , 329, 424-8	2869
16	678	Catalytic effects of TiF3 on hydrogen spillover on Pt/carbon for hydrogen storage. <b>2010</b> , 26, 15394-8	29
16	577	Storage and separation applications of nanoporous metalâBrganic frameworks. <b>2010</b> , 12, 1337-1353	139
16	676	Unveiling the transient template in the self-assembly of a molecular oxide nanowheel. <b>2010</b> , 327, 72-4	227
16	575	Molecular relaxation processes in a MOF-5 structure revealed by broadband dielectric spectroscopy: signature of phenylene ring fluctuations. <b>2010</b> , 114, 12840-6	28
16	574	Effect of Anions on the Self-Assembly of Cd(II)-Containing Coordination Polymers Based on a Novel Flexible Tetrakis(imidazole) Ligand. <b>2010</b> , 10, 995-1016	150

1673	Design and Synthesis of Self-assembly Supramolecular Entities Based on Noncovalent Interaction of Cucurbit[5]uril, Metal Ions, and Hydroxybenzene or Its Derivatives. <b>2010</b> , 10, 2901-2907	22
1672	Microporous La(III) MetalâDrganic Framework Using a Semirigid Tricarboxylic Ligand: Synthesis, Single-Crystal to Single-Crystal Sorption Properties, and Gas Adsorption Studies. <b>2010</b> , 10, 3410-3417	64
1671	Evaluating Hostâ©uest Interactions in a Metalâ©rganic Framework Using a Polarity-Sensitive Probe. <b>2010</b> , 1, 1101-1106	18
1670	Porous coordination polymer with flexibility imparted by coordinatively changeable lithium ions on the pore surface. <b>2010</b> , 49, 1158-65	53
1669	Silver Coordination Polymers Based on Neutral Trinitrile Ligand: Topology and the Role of Anion. <b>2010</b> , 10, 3964-3976	64
1668	Interactions of Cyclotrimethylene Trinitramine (RDX) with MetalâDrganic Framework IRMOF-1. <b>2010</b> , 114, 3732-3736	11
1667	Guest escape and uptake in nonporous crystals of a gold(I) macrocycle. 2010, 132, 13627-9	21
1666	A two-fold interpenetrated (3,6)-connected metalâbrganic framework with rutile topology showing a large solvent cavity. <b>2010</b> , 34, 2396	37
1665	Atomistic simulation studies on the dynamics and thermodynamics of nonpolar molecules within the zeolite imidazolate framework-8. <b>2010</b> , 114, 2493-503	54
1664	Engineering Three-Dimensional Chains of Porous Nanoballs from a 1,2,4-Triazole-carboxylate Supramolecular Synthon. <b>2010</b> , 10, 1798-1807	46
1663	Rigid pillars and double walls in a porous metal-organic framework: single-crystal to single-crystal, controlled uptake and release of iodine and electrical conductivity. <b>2010</b> , 132, 2561-3	564
1662	Targeted synthesis of a 3D porous aromatic framework for selective sorption of benzene. <b>2010</b> , 46, 291-3	194
1661	Platinum Integrated Graphene for Methanol Fuel Cells. <b>2010</b> , 114, 15837-15841	147
1660	Metal organic gels (MOGs): a new class of sorbents for CO2 separation applications. <b>2010</b> , 20, 7623	72
1659	A New Multidentate Hexacarboxylic Acid for the Construction of Porous MetalâDrganic Frameworks of Diverse Structures and Porosities. <b>2010</b> , 10, 2775-2779	47
1658	Metal-organic polyhedral frameworks: high h(2) adsorption capacities and neutron powder diffraction studies. <b>2010</b> , 132, 4092-4	269
1657	New chiral and flexible metal-organic framework with a bifunctional spiro linker and Zn4O-nodes. <b>2010</b> , 49, 4440-6	48
1656	Elucidating Negative Thermal Expansion in MOF-5. <b>2010</b> , 114, 16181-16186	157

1655	Novel zinc oxide twins with perfect mirror symmetry by solvothermal synthesis method. <b>2010</b> , 12, 685-687	8
1654	Coordination copolymerization mediated by Zn4O(CO2R)6 metal clusters: a balancing act between statistics and geometry. <b>2010</b> , 132, 15005-10	127
1653	Functional mesoporous metal-organic frameworks for the capture of heavy metal ions and size-selective catalysis. <b>2010</b> , 49, 11637-42	243
1652	3-D MetalâDrganic Framework Based on Cationic 2-D Cuprate Layers: Cu3(OH)4[C10H6(SO3)2]. <b>2010</b> , 10, 874-879	25
1651	A density functional theory study on the interaction of hydrogen molecule with MOF-177. <b>2010</b> , 36, 373-381	8
1650	Gas storage in porous metal-organic frameworks for clean energy applications. <b>2010</b> , 46, 44-53	1102
1649	Temperature responsive channel uniformity impacts on highly guest-selective adsorption in a porous coordination polymer. <b>2010</b> , 1, 315	82
1648	Insight into the Development of Metal-Organic Materials (MOMs): At Zeolite-Like Metal-Organic Frameworks (ZMOFs). <b>2010</b> , 37-89	8
1647	Hydrogen and Methane Storage in Metal-Organic Frameworks. <b>2010</b> , 249-266	15
1646	Divalent zinc and cadmium coordination polymers of a new flexible tetracarboxylate ligand: syntheses, crystal structures and properties. <b>2010</b> , 39, 8022-32	34
1645	A metal-organic framework replete with ordered donor-acceptor catenanes. <b>2010</b> , 46, 380-2	84
1644	Influence of the steric hindrance of organic amines on the supramolecular network based on polyoxovanadates. <b>2010</b> , 12, 242-249	18
1643	A microporous metalâBrganic framework constructed from a 1D column made of linear trinuclear manganese secondary building units. <b>2010</b> , 12, 2179	13
1642	Crystal structure, supramolecular assembly and preliminary reactivity behaviour of new heteropolytopic ligands based on oxalate/malonate skeleton and azolate moieties. <b>2010</b> , 12, 1217-1226	2
1641	Systematic exploration of a rutile-type zinc(II)-phosphonocarboxylate open framework: the factors that influence the structure. <b>2010</b> , 39, 10712-8	13
1640	Five 3D metalâBrganic frameworks constructed from V-shaped polycarboxylate acids and flexible imidazole-based ligands. <b>2010</b> , 12, 1175-1185	71
1639	A metalâBrganic framework with coordinatively unsaturated metal centers and microporous structure. <b>2010</b> , 12, 2347	22
1638	Thiocyanate-induced conformational transformation of a flexible fluconazole ligand in Cd(II) coordination polymers. <b>2010</b> , 12, 604-611	24

1637	[LnNa(PhCO2)4] (Ln = Ho, Dy): the first examples of chiral srs 3D networks constructed using the monotopic benzoate ligand. <b>2010</b> , 46, 2551-3	42
1636	Interaction of ammonia borane with Li2NH and Li3N. <b>2010</b> , 39, 720-2	18
1635	Molecular tectonics of metalâBrganic frameworks based on ligand-modulated polynuclear zinc SBUs and aromatic multicarboxylic acids. <b>2011</b> , 13, 889-896	42
1634	A novel low density metal-organic framework with pcu topology by dendritic ligand. <b>2011</b> , 47, 9167-9	61
1633	Solid-state transformation of the MOF [Ni2(bipy)1.5(PDC)2(H2O)2][B.5H2O. 2011, 13, 6831	26
1632	Effects of Pt Particle Size on Hydrogen Storage on Pt-Doped MetalâDrganic Framework IRMOF-8. <b>2011</b> , 115, 4793-4799	80
1631	Syntheses, structural aspects, luminescence and magnetism of four coordination polymers based on a new flexible polycarboxylate. <b>2011</b> , 13, 2096	44
1630	Highly porous Co(II)-salicylate metal-organic framework: synthesis, characterization and magnetic properties. <b>2011</b> , 40, 2932-9	51
1629	Role of Temperature in the Structure of Zn(II)-1,4,-BDC Metal-Organic Frameworks and their Adsorption and Diffusion Properties for Carbon Dioxide. <b>2011</b> , 46, 1337-1345	7
1628	A single-crystalline microporous coordination polymer with mixed parallel and diagonal interpenetrating ⊕o networks. <b>2011</b> , 13, 4838	10
1627	Hydrothermal syntheses, structures and luminescent properties of Zn(II) coordination polymers assembled with benzene-1,2,3-tricarboxylic acid involving in situ ligand reactions. <b>2011</b> , 13, 2764	48
1626	Coordination polymers of flexible tetracarboxylic acids with metal ions. II. Supramolecular assemblies of 5,5?-methylene- and 5,5?-(ethane-1,2-diyl)-bis(oxy)diisophthalic acid ligands with d-transition metals. <b>2011</b> , 13, 350-366	50
1625	A graphene oxide-based AIE biosensor with high selectivity toward bovine serum albumin. <b>2011</b> , 47, 12385-7	130
1624	Reversible and irreversible vapor-induced guest molecule exchange in spin-crossover compounds. <b>2011</b> , 50, 8553-64	87
1623	Syntheses, Structures, and Gas Adsorption Properties of Two Novel CadmiumâBodium Organic Frameworks with 1,3,5-Benzenetricarboxylate Ligands. <b>2011</b> , 11, 3529-3535	22
1622	Polyhedral Phenylsilsesquioxanes. <b>2011</b> , 44, 1073-1109	195
1621	Supercapacitors: Electrode Materials Aspects. <b>2011</b> ,	3
1620	Reversible solid-state structural transformation of a 1D-2D coordination polymer by thermal De/rehydration processes. <b>2011</b> , 50, 597-603	42

1619	Fabrication of a large scale transparent conducting film using transformed few-layered graphene nanoribbons obtained from unzipping of single wall carbon nanotubes. <b>2011</b> , 21, 15655	11
1618	Coordination Polymers of 5-(2-Amino/Acetamido-4-carboxyphenoxy)-benzene-1,3-dioic Acids with Transition Metal Ions: Synthesis, Structure, and Catalytic Activity. <b>2011</b> , 11, 2621-2636	48
1617	Monitoring the Activation Process of the Giant Pore MIL-100(Al) by Solid State NMR. <b>2011</b> , 115, 17934-17944	59
1616	Multi-component self-assembly of molecule based materials by coordination networks and weak intermolecular synthons. <b>2011</b> , 13, 5813	8
1615	Highly efficient separation of a solid mixture of naphthalene and anthracene by a reusable porous metal-organic framework through a single-crystal-to-single-crystal transformation. <b>2011</b> , 133, 11042-5	236
1614	Chiral and Porous Coordination Polymers Based on an N-Centered Triangular Rigid Ligand. <b>2011</b> , 11, 231-239	93
1613	Molecular Insight into the Adsorption and Diffusion of Water in the Versatile Hydrophilic/Hydrophobic Flexible MIL-53(Cr) MOF. <b>2011</b> , 115, 10764-10776	119
1612	Syntheses, Structures, and Structural Transformations of Mixed Na(I) and Zn(II) MetalâDrganic Frameworks with 1,3,5-Benzenetricarboxylate Ligands. <b>2011</b> , 11, 2243-2249	18
1611	A dynamic open framework exhibiting guest- and/or temperature-induced bicycle-pedal motion in single-crystal to single-crystal transformation. <b>2011</b> , 50, 1889-97	66
1610	Synthesis of a porous aromatic framework for adsorbing organic pollutants application. <b>2011</b> , 21, 10348	115
1609	A highly porous interpenetrated metal-organic framework from the use of a novel nanosized organic linker. <b>2011</b> , 50, 11297-9	32
1608	Solubilities of Tris(o-phenylenedioxy)cyclotriphosphazene in Selected Solvents. <b>2011</b> , 56, 3208-3213	6
1607	Preparation of Novel Carbon-based Nanomaterial of Graphene and Its Applications Electrochemistry. <b>2011</b> , 39, 963-971	18
1606	High-throughput screening: speeding up porous materials discovery. <b>2011</b> , 47, 5151-3	61
1605	Heterogeneous Catalysis and Solid Catalysts, 2. Development and Types of Solid Catalysts. <b>2011</b> ,	6
1604	Stability effects on CO2 adsorption for the DOBDC series of metal-organic frameworks. <b>2011</b> , 27, 11451-6	151
1603	MOF-5: enthalpy of formation and energy landscape of porous materials. <b>2011</b> , 133, 9184-7	46
1602	Fast Synthesis of MOF-5 Microcrystals Using Solâttel SiO2 Nanoparticles. <b>2011</b> , 23, 929-934	92

1601	Thermal Analysis and Heat Capacity Study of MetalâDrganic Frameworks. <b>2011</b> , 115, 22748-22754	107
1600	Separation and Purification of Gases by MOFs. <b>2011</b> , 69-97	4
1599	Industrial MOF Synthesis. 2011, 337-352	17
1598	From simple to complex: topological evolution and luminescence variation in a copper(I) pyridylpyrazolate system tuned via second ligating spacers. <b>2011</b> , 50, 8879-92	51
1597	The diverse structures of Cd(II) coordination polymers with 1,3,5-benzenetribenzoate tuned by organic bases. <b>2011</b> , 13, 5825	24
1596	Pore-size tuning in double-pillared metalâBrganic frameworks containing cadmium clusters. <b>2011</b> , 13, 3321	47
1595	Design of Functional MetalâDrganic Frameworks by Post-Synthetic Modification. <b>2011</b> , 23-48	7
1594	Design of Porous Coordination Polymers/MetalâØrganic Frameworks: Past, Present and Future. <b>2011</b> , 1-21	6
1593	Research Status of MetalâDrganic Frameworks for On-Board Cryo-Adsorptive Hydrogen Storage Applications. <b>2011</b> , 151-169	2
1592	Hierarchically structured carbon-based composites: Design, synthesis and their application in electrochemical capacitors. <b>2011</b> , 3, 529-45	260
1591	Solvent-induced deviation in square-grid layers of microporous Cu(II) isophthalates: layer stacking and gas adsorption properties. <b>2011</b> , 13, 577-584	19
1590	Syntheses and Crystal Structures of a Series of Zn(II)/Cd(II) Coordination Polymers Constructed from a Flexible 6,6?-Dithiodinicotinic Acid. <b>2011</b> , 11, 1531-1541	49
1589	Catalysis by metal-organic frameworks: fundamentals and opportunities. <b>2011</b> , 13, 6388-96	331
1588	Toward understanding reactive adsorption of ammonia on Cu-MOF/graphite oxide nanocomposites. <b>2011</b> , 27, 13043-51	117
1587	Lithium-doped MOF impregnated with lithium-coated fullerenes: a hydrogen storage route for high gravimetric and volumetric uptakes at ambient temperatures. <b>2011</b> , 47, 7698-700	53
1586	Separation of Xylene Isomers. <b>2011</b> , 171-190	6
1585	Porous MetalâDrganic Frameworks. <b>2011</b> , 1-20	3
1584	Superlative Scaffold of 1,2,4-Triazole Derivative of Glycine Steering Linear Chain to a Chiral Helicate. <b>2011</b> , 11, 1375-1384	26

### (2011-2011)

1583	A chirally helical coordination polymer self-assembled with the ligand 2-(2-carboxyphenyl)imidazo(4,5-f)(1,10)phenanthroline: crystal structure, SHG response and tunable photoluminescence. <b>2011</b> , 13, 52-54	29
1582	Two- to One-Dimensional: Radii-Dependent Self-Assembly Crystal Structures and Luminescent Properties of Lanthanide Coordination Polymers with an Amide Type Semirigid Bridging Ligand. <b>2011</b> , 11, 4205-4212	41
1581	Extending the pore size of crystalline metal phosphonates toward the mesoporous regime by isoreticular synthesis. <b>2011</b> , 133, 1266-9	119
1580	Porous metal-organic frameworks as platforms for functional applications. <b>2011</b> , 47, 3351-70	743
1579	Structural Extension from an Isonicotinic Acid Dimer to 4-(4-Pyridyl)benzoic Acid (pybenH) Dimer: X-ray Crystal Structure Analysis and Inclusion Properties of a Hydrogen-Bonded Coordination Polymer [Ni(SCN)2(pybenH)2]â[]2011, 11, 5574-5591	11
1578	A solid lithium electrolyte via addition of lithium isopropoxide to a metal-organic framework with open metal sites. <b>2011</b> , 133, 14522-5	293
1577	Crystal-like microporous hybrid solid nanocast from Cr-MIL-101. <b>2011</b> , 47, 10479-81	27
1576	Hydrogen Adsorption and Storage. <b>2011</b> , 157-245	3
1575	In silico screening of metal-organic frameworks in separation applications. <b>2011</b> , 13, 10593-616	279
1574	Screening MetalâDrganic Frameworks by Analysis of Transient Breakthrough of Gas Mixtures in a Fixed Bed Adsorber. <b>2011</b> , 115, 12941-12950	184
1573	Polyoxometalate charge directed coordination assemblies: Macrocycles and polymer chains. <b>2011</b> , 13, 3526	40
1572	A Series of 2D and 3D Metalâ©rganic Frameworks Based on a Flexible Tetrakis(4-pyridyloxymethylene)methane Ligand and Polycarboxylates: Syntheses, Structures, and Photoluminescent Properties. <b>2011</b> , 11, 3609-3621	146
1571	Terbium-based infinite coordination polymer hollow microspheres: preparation and white-light emission. <b>2011</b> , 21, 16574	107
1570	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. <b>2011</b> , 50, 3442-6	111
1569	Graphene sheets decorated with SnO2 nanoparticles: in situ synthesis and highly efficient materials for cataluminescence gas sensors. <b>2011</b> , 21, 5972	272
1568	Temperature-dependent conductivity of Emim+ (Emim+ = 1-ethyl-3-methyl imidazolium) confined in channels of a metal-organic framework. <b>2011</b> , 47, 11933-5	68
1567	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
1566	Helical water chain mediated proton conductivity in homochiral metal-organic frameworks with unprecedented zeolitic unh-topology. <b>2011</b> , 133, 17950-8	326

1565	Salen-based coordination polymers of iron and the rare earth elements. <b>2011</b> , 50, 12697-704	19
1564	Amino Functionalized SiO2nanoparticles for seeding MOF-5. <b>2011</b> , 18, 052006	1
1563	Theoretical Study of Amino Acid Interaction with Metal Organic Frameworks. <b>2011</b> , 2, 272-275	12
1562	Polymeric Frameworks: Toward Porous Semiconductors. <b>2011</b> , 119-154	3
1561	Supercapacitors: Electrode Materials Aspects. <b>2011</b> ,	2
1560	High capacity gas storage by a 4,8-connected metal-organic polyhedral framework. <b>2011</b> , 47, 4487-9	203
1559	Metal-organic frameworks as adsorbents for hydrogen purification and precombustion carbon dioxide capture. <b>2011</b> , 133, 5664-7	405
1558	Why hybrid porous solids capture greenhouse gases?. <b>2011</b> , 40, 550-62	562
1557	Expanding Applications of MetalâDrganic Frameworks: Zeolite Imidazolate Framework ZIF-8 as an Efficient Heterogeneous Catalyst for the Knoevenagel Reaction. <b>2011</b> , 1, 120-127	480
1556	Applications of advanced hybrid organic-inorganic nanomaterials: from laboratory to market. <b>2011</b> , 40, 696-753	1060
1555	Construction of Coordination Polymers with a Bifurcating Ligand: Synthesis, Structure, Photoluminescence, and Magnetic Studies. <b>2011</b> , 11, 1122-1134	52
1554	Deposition of Thin Films for Sensor Applications. <b>2011</b> , 309-335	3
1553	Evaluating metalâBrganic frameworks for post-combustion carbon dioxide capture via temperature swing adsorption. <b>2011</b> , 4, 3030	782
1552	Sodium deoxycholate functionalized graphene and its composites with polyvinyl alcohol. <b>2011</b> , 44, 445302	14
1551	Preparation Chemistry of Inorganic Membranes. <b>2011</b> , 507-523	2
1550	References to Part Two. <b>2011</b> , 56, 359-367	
1549	An unprecedented twofold interpenetrated layered metalâBrganic framework with a MoS2-H topology. <b>2011</b> , 13, 6926	11
1548	Supramolecular Assembly of Calcium MetalâDrganic Frameworks with Structural Transformations. <b>2011</b> , 11, 699-708	84

1547	. 2011,	235
1546	Supramolecular Materials: MetalâQuinonoid Complexes. <b>2011</b> ,	
1545	Highly Selective Guest Adsorption in the Nanospace of Porous Coordination Polymers. <b>2011</b> , 57, 45-56	1
1544	Crystalline molecular flasks. <b>2011</b> , 3, 349-58	497
1543	Self-assembly of supramolecular networks based on biphosphopentamolybdate and copperâBrganic units. <b>2011</b> , 13, 417-421	3
1542	Synthesis, characterization and gas transport properties of MOF-5 membranes. <b>2011</b> , 382, 82-90	100
1541	Towards applications of metalâbrganic frameworks in catalysis: Friedelât rafts acylation reaction over IRMOF-8 as an efficient heterogeneous catalyst. <b>2011</b> , 349, 28-35	59
1540	Supramolecular architectures of Cu(II) with terpyridine and pyridyl-carboxylates. <b>2011</b> , 1006, 425-433	7
1539	MOF-containing mixed-matrix membranes for CO2/CH4 and CO2/N2 binary gas mixture separations. <b>2011</b> , 81, 31-40	336
1538	A series of metalâBrganic frameworks based on 9,10-bis(imidazol-1-ylmethyl)anthracene and structurally related aromatic dicarboxylates: Syntheses, structures, and photoluminescence. <b>2011</b> , 30, 2106-2113	31
1537	Aniline- and N,N-dimethylformamide-assisted processing route for graphite nanoplates: intercalation and exfoliation pathway. <b>2011</b> , 65, 1371-1374	4
1536	Supramolecular assembly based on Keggin cluster and basketlike cage. <b>2011</b> , 14, 1846-1849	18
1535	Structure and physical properties of Mn(II) and Co(II) complexes with multicarboxylate ligands. <b>2011</b> , 14, 1889-1893	11
1534	Ab initio and periodic DFT investigation of hydrogen storage on light metal-decorated MOF-5. <b>2011</b> , 36, 10816-10827	45
1533	Lead(II) carboxylate supramolecular compounds: Coordination modes, structures and nano-structures aspects. <b>2011</b> , 255, 2821-2859	140
1532	Hydroxyl group recognition by hydrogen-bonding donor and acceptor sites embedded in a layered metal-organic framework. <b>2011</b> , 133, 11050-3	79
1531	Coordination Polymers of 1,3,5-Tris(triazol-1-ylmethyl)-2,4,6-trimethylbenzene: Synthesis, Structure, Reversible Hydration, Encapsulation, and Catalysis Oxidation of Diphenylcarbonohydrazide. <b>2011</b> , 11, 2999-3012	37
1530	Visualisation and characterisation of voids in crystalline materials. <b>2011</b> , 13, 1804-1813	271

1529	Electrical and Structural Feature of Monolayer Graphene Produced by Pulse Current Unzipping and Microwave Exfoliation of Carbon Nanotubes. <b>2011</b> , 23, 940-944	18
1528	A non-interpenetrated porous metal-organic framework with high gas-uptake capacity. <b>2011</b> , 47, 9861-3	96
1527	MOF thin films: existing and future applications. <b>2011</b> , 40, 1081-106	1048
1526	Tuning the Metal Binding Energy and Hydrogen Storage in Alkali Metal Decorated MOF-5 Through Boron Doping: A Theoretical Investigation. <b>2011</b> , 115, 16984-16991	39
1525	Insight into the crystal synthesis, activation and application of ZIF-20. <b>2011</b> , 1, 917	43
1524	Soft porous crystal meets TCNQ: charge transfer-type porous coordination polymers. <b>2011</b> , 21, 5537	53
1523	The current status of hydrogen storage in metalâBrganic frameworksâŪpdated. <b>2011</b> , 4, 2721	391
1522	Use of confocal fluorescence microscopy to compare different methods of modifying metalâBrganic framework (MOF) crystals with dyes. <b>2011</b> , 13, 2828	41
1521	Covalent organic frameworks for extremely high reversible CO2 uptake capacity: a theoretical approach. <b>2011</b> , 21, 1073-1078	59
1520	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). <b>2011</b> , 6, 3084-96	50
1519	Engineering the Environment of a Catalytic MetalâDrganic Framework by Postsynthetic Hydrophobization. <b>2011</b> , 3, 675-678	64
1518	Two-dimensional crystallization of carboxylated benzene oligomers. <b>2011</b> , 27, 936-42	9
1517	Design of covalent organic frameworks for methane storage. <b>2011</b> , 115, 13852-7	76
1516	The mechanical bond: a work of art. <b>2012</b> , 323, 19-72	49
1515	The first porous MOF with photoswitchable linker molecules. <b>2011</b> , 40, 4217-22	149
1514	Delineating similarities and dissimilarities in the use of metal organic frameworks and zeolites as heterogeneous catalysts for organic reactions. <b>2011</b> , 40, 6344-60	133
1513	A highly porous flexible Metal-Organic Framework with corundum topology. <b>2011</b> , 47, 490-2	49
1512	Syntheses and Structural Characterization of Three New Alkaline Earth Metal Supramolecular Coordination Compounds Based on Atza Ligand (Atza = 5-Aminotetrazole-1-Acetato Anion). <b>2011</b> , 41, 1483-1489	11

1511	Three New Complexes Based on a Flexible Bis(benzimidazole) Ligand and Rigid/Flexible Organic Carboxylates. <b>2011</b> , 41, 1579-1585	16
1510	Synthesis and Crystal Structure of an Expanded Square Grid Metal Organic Material, [Cu(L1)(DMF)]n[(2.64 DMF). <b>2011</b> , 41, 1834-1838	1
1509	Syntheses and Characterization of New Nano-porous Soft Copper(II) Metalâbrganic Framework and Nano-porous Two-dimensional Manganese(II) and Zinc(II) Coordination Polymers with 4,4?-Bipyridine and 2-Sulfobenzoic Acid. <b>2011</b> , 21, 700-705	1
1508	Electrochemical sensors based on graphene materials. <b>2011</b> , 175, 1-19	259
1507	Modeling gas separation in metal-organic frameworks. <b>2011</b> , 17, 255-264	19
1506	Adsorption equilibrium of methane and carbon dioxide on porous metal-organic framework Zn-BTB. <b>2011</b> , 17, 777-782	18
1505	Enhanced interfacial interaction for effective reinforcement of poly(vinyl alcohol) nanocomposites at low loading of graphene. <b>2011</b> , 67, 1785-1797	38
1504	Structure analysis and catalytic property of a microporous framework based on a flexible tripodal ligand with novel conformations. <b>2011</b> , 996, 110-114	3
1503	Diverse coordination of polynuclear copper(II) complexes constructed from benzene tetracarboxylates. <b>2011</b> , 370, 435-443	19
1502	Porous zinc(II)-organic framework with potential open metal sites: Synthesis, structure and property. <b>2011</b> , 54, 1436-1440	13
1501	Mechanism of intercalation and deintercalation of lithium ions in graphene nanosheets. <b>2011</b> , 56, 3204	45
1500	A d10 Metal Coordination Polymer Containing a Thiodiphthalic Ligand: Crystal Structure and Luminescent Property. <b>2011</b> , 637, 1427-1431	4
1499	Investigation of the crystalline structure of PVDF in PVDF/PMMA/graphene polymer blend nanocomposites. <b>2011</b> , 32, 1451-1460	42
1498	Highly stable porous polymer networks with exceptionally high gas-uptake capacities. <b>2011</b> , 23, 3723-5	485
1497	Unique hydrogen adsorption properties of graphene. <b>2011</b> , 57, 2902-2908	51
1496	Significantly Enhanced CO2/CH4 Separation Selectivity within a 3D Prototype Metalâ®rganic Framework Functionalized with OH Groups on Pore Surfaces at Room Temperature. <b>2011</b> , 2011, 2227-2231	52
1495	Combination of MOFs and zeolites for mixed-matrix membranes. <b>2011</b> , 12, 2781-5	196
1494	Phosphotungstic acid encapsulated in metal-organic framework as catalysts for carbohydrate dehydration to 5-hydroxymethylfurfural. <b>2011</b> , 4, 59-64	196

1493	Bottom-Up Assembly from a Helicate to Homochiral Micro- and Mesoporous MetalâDrganic Frameworks. <b>2011</b> , 123, 1186-1190	13
1492	Single-Crystal-like Titania Mesocages. <b>2011</b> , 123, 1137-1140	18
1491	Variant Luminescence from an Organicâlhorganic Hybrid Structure with an Isolated 4-Ring Zinc Phosphate Tecton. <b>2011</b> , 123, 5431-5434	8
1490	Bottom-up assembly from a helicate to homochiral micro- and mesoporous metal-organic frameworks. <b>2011</b> , 50, 1154-8	76
1489	Single-crystal-like titania mesocages. <b>2011</b> , 50, 1105-8	87
1488	Variant luminescence from an organic-inorganic hybrid structure with an isolated 4-ring zinc phosphate tecton. <b>2011</b> , 50, 5319-22	39
1487	A family of chiral metal-organic frameworks. <b>2011</b> , 17, 2099-106	118
1486	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. <b>2011</b> , 17, 8882-9	118
1485	A new coordination polymer exhibiting unique 2D hydrogen-bonded (H2O)16 ring formation and water-dependent luminescence properties. <b>2011</b> , 17, 9232-41	32
1484	Thiodiacetate-manganese chemistry with N ligands: unique control of the supramolecular arrangement over the metal coordination mode. <b>2011</b> , 17, 10600-17	24
1483	Synthesis of isoreticular zinc(II)-phosphonocarboxylate frameworks and their application in the Friedel-Crafts benzylation reaction. <b>2011</b> , 17, 10323-8	34
1482	Modifying cage structures in metal-organic polyhedral frameworks for H2 storage. <b>2011</b> , 17, 11162-70	68
1481	Chiral Metal-Organic Frameworks and Their Application in Asymmetric Catalysis and Stereoselective Separation. <b>2011</b> , 83, 90-103	128
1480	Assembly, crystal structures and luminescent properties of the lanthanide nitrate coordination polymers with 1,5-bis{[(2?-(2-picolylaminoformyl))phenoxyl]methyl}naphthalene. <b>2011</b> , 14, 654-658	6
1479	A unique unit cell containing simultaneous doubly and triply copper(II) complexes bridging by 2,4-pyridine dicarboxylate. <b>2011</b> , 14, 702-705	9
1478	Towards rapid computational screening of metal-organic frameworks for carbon dioxide capture: Calculation of framework charges via charge equilibration. <b>2011</b> , 171, 775-781	111
1477	Synthesis, characterization and hydrogen adsorption on metal-organic frameworks Al, Cr, Fe and Ga-BTB. <b>2011</b> , 171, 517-525	18
1476	The synthesis and characterization of copper-based metalâBrganic framework/graphite oxide composites. <b>2011</b> , 49, 563-572	250

14/5	CO2 capture by improved hot potash process. <b>2011</b> , 4, 307-317	8
1474	A flexible graphene/multiwalled carbon nanotube film as a high performance electrode material for supercapacitors. <b>2011</b> , 56, 5115-5121	230
1473	Two new pH-controlled metalâBrganic frameworks based on polynuclear secondary building units with conformation-flexible cyclohexane-1,2,4,5-tetracarboxylate ligand. <b>2011</b> , 367, 127-134	33
1472	From 1D homoleptic to 2D heteroleptic pillared coordination polymers containing oxonato bridges. <b>2011</b> , 371, 79-87	6
1471	Chitosan templated synthesis of porous metal oxide microspheres with filamentary nanostructures. <b>2011</b> , 142, 301-307	75
1470	Unusual adsorption behavior of a highly flexible copper-based MOF. <b>2011</b> , 142, 592-600	35
1469	MOF-derived ZnO and ZnO@C composites with high photocatalytic activity and adsorption capacity. <b>2011</b> , 186, 376-82	104
1468	Gas separation performance of polyethersulfone/multi-walled carbon nanotubes mixed matrix membranes. <b>2011</b> , 80, 20-31	124
1467	MOF-5 decorated hierarchical ZnO nanorod arrays and its photoluminescence. <b>2011</b> , 43, 1219-1223	20
1466	Graphene based materials: Past, present and future. <b>2011</b> , 56, 1178-1271	2607
1466 1465	Hydrothermal syntheses and characterization of four 2-D lanthanide coordination polymers with	2607
	Hydrothermal syntheses and characterization of four 2-D lanthanide coordination polymers with glutarate and 1,10-phenanthroline. <b>2011</b> , 64, 424-430  Thermal variations of iodine panostructures inside the channels of AIPO4-5 zeolite single crystals	
1465	Hydrothermal syntheses and characterization of four 2-D lanthanide coordination polymers with glutarate and 1,10-phenanthroline. <b>2011</b> , 64, 424-430  Thermal variations of iodine nanostructures inside the channels of AlPO4-5 zeolite single crystals. <b>2011</b> , 83,	6
1465 1464	Hydrothermal syntheses and characterization of four 2-D lanthanide coordination polymers with glutarate and 1,10-phenanthroline. <b>2011</b> , 64, 424-430  Thermal variations of iodine nanostructures inside the channels of AlPO4-5 zeolite single crystals. <b>2011</b> , 83,  Computational structure characterisation tools in application to ordered and disordered porous materials. <b>2011</b> , 37, 1248-1257	8
1465 1464 1463	Hydrothermal syntheses and characterization of four 2-D lanthanide coordination polymers with glutarate and 1,10-phenanthroline. 2011, 64, 424-430  Thermal variations of iodine nanostructures inside the channels of AlPO4-5 zeolite single crystals. 2011, 83,  Computational structure characterisation tools in application to ordered and disordered porous materials. 2011, 37, 1248-1257  Nano-Microporous Materials: Hydrothermal Synthesis of Zeolites. 2011,	8
1465 1464 1463 1462	Hydrothermal syntheses and characterization of four 2-D lanthanide coordination polymers with glutarate and 1,10-phenanthroline. 2011, 64, 424-430  Thermal variations of iodine nanostructures inside the channels of AlPO4-5 zeolite single crystals. 2011, 83,  Computational structure characterisation tools in application to ordered and disordered porous materials. 2011, 37, 1248-1257  Nano-Microporous Materials: Hydrothermal Synthesis of Zeolites. 2011,  Fabrication and thickness regulation of graphene film electrode by a facile drying method. 2011, 225, 71-73	8
1465 1464 1463 1462 1461	Hydrothermal syntheses and characterization of four 2-D lanthanide coordination polymers with glutarate and 1,10-phenanthroline. 2011, 64, 424-430  Thermal variations of iodine nanostructures inside the channels of AlPO4-5 zeolite single crystals. 2011, 83,  Computational structure characterisation tools in application to ordered and disordered porous materials. 2011, 37, 1248-1257  Nano-Microporous Materials: Hydrothermal Synthesis of Zeolites. 2011,  Fabrication and thickness regulation of graphene film electrode by a facile drying method. 2011, 225, 71-73  Coordination Polymers and Metal Organic Frameworks Derived from 1,2,4-Triazole Amino Acid Linkers. 2011, 3, 1750-1775	6 8 445

1457	Ni/Pd@MIL-101: synergistic catalysis with cavity-conform Ni/Pd nanoparticles. <b>2012</b> , 51, 11473-7	166
1456	Redox Reactivity of Methylene Blue Bound in Pores of UMCM-1 Metal-Organic Frameworks. <b>2012</b> , 554, 12-21	7
1455	Ordered Mesoporous Materials as Catalysts. <b>2012</b> , 55, 127-239	31
1454	Air as the renewable carbon source of the future: an overview of CO2 capture from the atmosphere. <b>2012</b> , 5, 7833	437
1453	Functional group effects on metal-organic framework topology. <b>2012</b> , 48, 9370-2	42
1452	Exploring the coordination chemistry of MOF-graphite oxide composites and their applications as adsorbents. <b>2012</b> , 41, 4027-35	192
1451	Luminescent microporous metal-metallosalen frameworks with the primitive cubic net. <b>2012</b> , 41, 3928-32	13
1450	Graphene oxide as a high-performance fluid-loss-control additive in water-based drilling fluids. <b>2012</b> , 4, 222-7	180
1449	Self-assembled reduced graphene oxide/carbon nanotube thin films as electrodes for supercapacitors. <b>2012</b> , 22, 3591	161
1448	Paalâknorr reaction catalyzed by metalâbrganic framework IRMOF-3 as an efficient and reusable heterogeneous catalyst. <b>2012</b> , 363-364, 178-185	41
1447	A Zeolite Imidazolate Framework ZIF-8 Catalyst for Friedel-Crafts Acylation. <b>2012</b> , 33, 688-696	83
1446	The arylation of aldehydes with arylboronic acids using metal-organic framework Ni(HBTC)BPY as an efficient heterogeneous catalyst. <b>2012</b> , 365, 95-102	23
1445	Hydro-ionothermal syntheses, crystal structures, and properties of five new divalent metal iminophosphonates. <b>2012</b> , 41, 3995-4006	14
1444	Ni/Pd@MIL-101: Synergetische Katalyse mit kavittenkonformen Ni/Pd-Nanopartikeln. <b>2012</b> , 124, 11640-1164	433
1443	Ruthenium complexation in an aluminium metal-organic framework and its application in alcohol oxidation catalysis. <b>2012</b> , 18, 15337-44	96
1442	Molecular ionics in supramolecular assemblies with channel structures containing lithium ions. <b>2012</b> , 18, 15305-9	16
1441	Diffusion-barrier-free porous carbon monoliths as a new form of activated carbon. <b>2012</b> , 5, 2271-7	7
1440	Metal-dependent assemblies of an unusual pentanuclear cadmium cluster and a fascinating 3D 4-connected lead-containing framework. <b>2012</b> , 24, 63-66	6

1439	Synthesis, crystal structures and properties of novel heterobimetallic Cdâ <b>P</b> t and Znâ <b>P</b> t coordination polymers using nicotinic acid. <b>2012</b> , 25, 14-17	2
1438	Gas Storage and Separation in Supramolecular Materials. 2012,	
1437	Tailored construction of novel Nickel (II) and Manganese (II) coordination polymers based on tris(p-carboxylphenyl)phosphine oxide. <b>2012</b> , 392, 396-403	10
1436	A robust doubly interpenetrated metal-organic framework constructed from a novel aromatic tricarboxylate for highly selective separation of small hydrocarbons. <b>2012</b> , 48, 6493-5	187
1435	In situ growth of noble metal nanoparticles on graphene oxide sheets and direct construction of functionalized porous-layered structure on gravimetric microsensors for chemical detection. <b>2012</b> , 48, 10784-6	37
1434	Catenation control in the two-dimensional coordination polymers based on tritopic carboxylate linkers and azamacrocyclic nickel(II) complexes. <b>2012</b> , 41, 4118-25	11
1433	A homochiral diamond framework constructed from Fe(III) and Mn(II) oxo-clusters supported by Sb(III) tartrate scaffolds. <b>2012</b> , 48, 3990-2	10
1432	Hydrogen thermal desorption spectra: insights from molecular simulation. <b>2012</b> , 41, 3974-84	7
1431	Metamagnetic behavior and moisture-absorption induced reversible network assembly of a cobalt-1,2,4-benzenetricarboxylate supramolecular network. <b>2012</b> , 14, 1317-1323	3
1430	Alkali earth metal (Ca, Sr, Ba) based thermostable metal-organic frameworks (MOFs) for proton conduction. <b>2012</b> , 48, 4998-5000	146
1430 1429		<ul><li>146</li><li>57</li></ul>
	Microwave assisted synthesis of a new lead(II) porous three-dimensional coordination polymer: study of nanostructured size effect on high iodide adsorption affinity. <b>2012</b> , 14, 779-781	
1429	conduction. 2012, 48, 4998-5000  Microwave assisted synthesis of a new lead(II) porous three-dimensional coordination polymer: study of nanostructured size effect on high iodide adsorption affinity. 2012, 14, 779-781  Utilizing a copper MOF as a reagent in a solvent mediated reaction to form a topologically distinct	57
1429 1428	Microwave assisted synthesis of a new lead(II) porous three-dimensional coordination polymer: study of nanostructured size effect on high iodide adsorption affinity. 2012, 14, 779-781  Utilizing a copper MOF as a reagent in a solvent mediated reaction to form a topologically distinct MOF. 2012, 41, 7839-41  Four 3D metalâBrganic frameworks derived from barium(II) and isoflavonesulfonate ligands. 2012, 14, 5042  Synthesis, crystal structure and thermal properties of Ca6(C12H14O4)4(CO3)(OH)2(H2O)xa 3D	57
1429 1428 1427	Microwave assisted synthesis of a new lead(II) porous three-dimensional coordination polymer: study of nanostructured size effect on high iodide adsorption affinity. 2012, 14, 779-781  Utilizing a copper MOF as a reagent in a solvent mediated reaction to form a topologically distinct MOF. 2012, 41, 7839-41  Four 3D metalâBrganic frameworks derived from barium(II) and isoflavonesulfonate ligands. 2012, 14, 5042  Synthesis, crystal structure and thermal properties of Ca6(C12H14O4)4(CO3)(OH)2(H2O)xa 3D	57 10 14
1429 1428 1427 1426	Microwave assisted synthesis of a new lead(II) porous three-dimensional coordination polymer: study of nanostructured size effect on high iodide adsorption affinity. 2012, 14, 779-781  Utilizing a copper MOF as a reagent in a solvent mediated reaction to form a topologically distinct MOF. 2012, 41, 7839-41  Four 3D metalâBrganic frameworks derived from barium(II) and isoflavonesulfonate ligands. 2012, 14, 5042  Synthesis, crystal structure and thermal properties of Ca6(C12H14O4)4(CO3)(OH)2(H2O)xa 3D inorganic hybrid material. 2012, 41, 12082-9  MetalâDrganic Frameworks Based on Flexible V-Shaped Polycarboxylate Acids: Hydrogen	57 10 14 2
1429 1428 1427 1426	Microwave assisted synthesis of a new lead(II) porous three-dimensional coordination polymer: study of nanostructured size effect on high iodide adsorption affinity. 2012, 14, 779-781  Utilizing a copper MOF as a reagent in a solvent mediated reaction to form a topologically distinct MOF. 2012, 41, 7839-41  Four 3D metalâBrganic frameworks derived from barium(II) and isoflavonesulfonate ligands. 2012, 14, 5042  Synthesis, crystal structure and thermal properties of Ca6(C12H14O4)4(CO3)(OH)2(H2O)xa 3D inorganic hybrid material. 2012, 41, 12082-9  MetalâDrganic Frameworks Based on Flexible V-Shaped Polycarboxylate Acids: Hydrogen Bondings, Non-Interpenetrated and Polycatenated. 2012, 12, 4072-4082	57 10 14 2
1429 1428 1427 1426 1425	Microwave assisted synthesis of a new lead(II) porous three-dimensional coordination polymer: study of nanostructured size effect on high iodide adsorption affinity. 2012, 14, 779-781  Utilizing a copper MOF as a reagent in a solvent mediated reaction to form a topologically distinct MOF. 2012, 41, 7839-41  Four 3D metalâBrganic frameworks derived from barium(II) and isoflavonesulfonate ligands. 2012, 14, 5042  Synthesis, crystal structure and thermal properties of Ca6(C12H14O4)4(CO3)(OH)2(H2O)xa 3D inorganic hybrid material. 2012, 41, 12082-9  MetalâDrganic Frameworks Based on Flexible V-Shaped Polycarboxylate Acids: Hydrogen Bondings, Non-Interpenetrated and Polycatenated. 2012, 12, 4072-4082  Enhancing the efficiency of polymerase chain reaction using graphene nanoflakes. 2012, 23, 455106  Ab initio prediction of adsorption isotherms for small molecules in metal-organic frameworks: the	57 10 14 2 65 76

1421	Hydrogen Storage in High Surface Area Carbons with Identical Surface Areas but Different Pore Sizes: Direct Demonstration of the Effects of Pore Size. <b>2012</b> , 116, 25734-25740	61
1420	One-step chemical vapor synthesis of Ni/graphene nanocomposites with excellent electromagnetic and electrocatalytic properties. <b>2012</b> , 162, 968-973	68
1419	Metal-organic framework materials with ultrahigh surface areas: is the sky the limit?. <b>2012</b> , 134, 15016-21	<b>121</b> 0
1418	Variable Water Adsorption in Amino Acid Derivative Based Homochiral Metal Organic Frameworks. <b>2012</b> , 12, 4633-4640	43
1417	CAF@ZIF-8: one-step encapsulation of caffeine in MOF. <b>2012</b> , 4, 5016-21	255
1416	Robust MetalâDrganic Framework with An Octatopic Ligand for Gas Adsorption and Separation: Combined Characterization by Experiments and Molecular Simulation. <b>2012</b> , 24, 18-25	74
1415	Solution-phase monitoring of the structural evolution of a Molybdenum Blue nanoring. <b>2012</b> , 134, 3816-24	80
1414	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. <b>2012</b> , 134, 9605-8	127
1413	Hypothetical high-surface-area carbons with exceptional hydrogen storage capacities: open carbon frameworks. <b>2012</b> , 134, 15130-7	59
1412	MetalâBrganic frameworks for catalysis: the Knoevenagel reaction using zeolite imidazolate framework ZIF-9 as an efficient heterogeneous catalyst. <b>2012</b> , 2, 521-528	164
1411	CH4 storage and CO2 capture in highly porous zirconium oxide based metal-organic frameworks. <b>2012</b> , 48, 9831-3	150
1410	Patterned conductive nanostructures from reversible self-assembly of 1D coordination polymer. <b>2012</b> , 3, 2047	27
1409	Systematic investigation into the influence of base and substituents on the coordination chemistry of MnIII and MnIII/II salicylate complexes. <b>2012</b> , 24, 533-546	2
1408	Construction of a series of metalâBrganic frameworks with a neutral tetradentate ligand and rigid carboxylate co-ligands. <b>2012</b> , 14, 8274	12
1407	A highly porous metal-organic framework, constructed from a cuboctahedral super-molecular building block, with exceptionally high methane uptake. <b>2012</b> , 48, 10841-3	170
1406	Methanol electrocatalytic oxidation on highly dispersed platinumâfuthenium/graphene catalysts prepared in supercritical carbon dioxideâfhethanol solution. <b>2012</b> , 2, 9651	33
1405	Facile "modular assembly" for fast construction of a highly oriented crystalline MOF nanofilm. <b>2012</b> , 134, 16524-7	233
1404	Synthesis, structural analysis and magnetic property of a chiral Mn(II) coordination polymer. <b>2012</b> , 23, 31-36	3

1403	Metal organic frameworks for electrochemical applications. <b>2012</b> , 5, 9269	668
1402	Magnesium Nanocrystals Embedded in a MetalâDrganic Framework: Hybrid Hydrogen Storage with Synergistic Effect on Physi- and Chemisorption. <b>2012</b> , 124, 9952-9955	30
1401	Magnesium nanocrystals embedded in a metal-organic framework: hybrid hydrogen storage with synergistic effect on physi- and chemisorption. <b>2012</b> , 51, 9814-7	113
1400	Discovering the active sites for C3 separation in MIL-100(Fe) by using operando IR spectroscopy. <b>2012</b> , 18, 11959-67	77
1399	Temperature-dependent capture of water molecules by saddle-shaped hexanuclear carboxylate cycloclusters in a (3,18)-connected metal-organic framework. <b>2012</b> , 18, 13954-8	31
1398	Smart Nanomaterials for Space and Energy Applications. <b>2012</b> , 213-249	
1397	Methane storage in advanced porous materials. <b>2012</b> , 41, 7761-79	643
1396	Solar Photoconversion Using Graphene/TiO2 Composites: Nanographene Shell on TiO2 Core versus TiO2 Nanoparticles on Graphene Sheet. <b>2012</b> , 116, 1535-1543	272
1395	Analyzing the Surface Area Properties of Microporous Materials. <b>2012</b> , 71-95	
1394	Metal-adeninate vertices for the construction of an exceptionally porous metal-organic framework. <b>2012</b> , 3, 604	312
1393	Zeolitelike Metalâ Drganic Frameworks (ZMOFs): Design, Structure, and Properties. 2012,	1
1392	From stimuli-responsive polymorphic organic dye crystals to photoluminescent cationic open-framework metal phosphate. <b>2012</b> , 134, 9848-51	74
1391	Adsorption of selected gases on metal-organic frameworks and covalent organic frameworks: A comparative grand canonical Monte Carlo simulation. <b>2012</b> , 111, 112628	18
1390	MetalâBrganic frameworks for visible light absorption via anion substitution. <b>2012</b> , 22, 10144	22
1389	Nanosponges for hydrogen storage. <b>2012</b> , 22, 10134	56
1388	Highly selective CO2 capture of an agw-type metal-organic framework with inserted amides: experimental and theoretical studies. <b>2012</b> , 48, 3058-60	154
1387	An acentric lanthanide-formate complex: synthesis, structure, ferroelectric and magnetic properties. <b>2012</b> , 30, 798-801	4
1386	Synthesis of nanoporous copper terephthalate [MIL-53(Cu)] as a novel methane-storage adsorbent. <b>2012</b> , 21, 680-684	21

1385	Synthesis and characterization of porous HKUST-1 metal organic frameworks for hydrogen storage. <b>2012</b> , 37, 13865-13871	236
1384	A novel 3D 4-(1H-1,2,4-triazol-1-ylmethyl)benzoate cadmium coordination polymer. <b>2012</b> , 162, 1894-1897	4
1383	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. <b>2012</b> , 162, 1775-1788	9
1382	Workfunction-tunable, N-doped reduced graphene transparent electrodes for high-performance polymer light-emitting diodes. <b>2012</b> , 6, 159-67	275
1381	Nanomaterials for Sensing Applications: Introduction and Perspective. <b>2012</b> , 1-16	4
1380	Assembly of Discrete One-, Two-, and Three-Dimensional Zn(II) Complexes Containing Semirigid V-Shaped Tricarboxylate Ligands. <b>2012</b> , 12, 1452-1463	106
1379	Synthesis, crystal structures, and luminescence properties of carboxylate based rare-earth coordination polymers. <b>2012</b> , 51, 11623-34	160
1378	A Two-Fold Interpenetrated Coordination Framework with a Rare (3,6)-Connected loh1 Topology: Magnetic Properties and Photocatalytic Behavior. <b>2012</b> , 12, 5426-5431	119
1377	Affinity between MetalâDrganic Frameworks and Polyimides in Asymmetric Mixed Matrix Membranes for Gas Separations. <b>2012</b> , 51, 10156-10164	74
1376	Synthesis of One- and Two-Dimensional Coordination Polymers Containing Organotin Macrocycles. Reactions of (n-Bu3Sn)2O with Pyridine Dicarboxylic Acids. Structure-Directing Role of the Ancillary 4,4?-Bipyridine Ligand. <b>2012</b> , 12, 3285-3295	58
1375	Graphene-SnO2 composites for highly efficient photocatalytic degradation of methylene blue under sunlight. <b>2012</b> , 23, 355705	208
1374	Reinforcement and interphase of polymer/graphene oxide nanocomposites. <b>2012</b> , 22, 3637	188
1373	Pore size-controlled gases and alcohols separation within ultramicroporous homochiral lanthanideâBrganic frameworks. <b>2012</b> , 22, 7813	48
1372	PdâHe3O4@C hybrid nanoparticles: preparation, characterization, and their high catalytic activity toward Suzuki coupling reactions. <b>2012</b> , 22, 22750	77
1371	Recent research progress in developing metal-doped porous matrices for hydrogen storage. <b>2012</b> , 61, 2025-2035	O
1370	High H2 uptake in Li-, Na-, K-metalated covalent organic frameworks and metal organic frameworks at 298 K. <b>2012</b> , 116, 1621-31	63
1369	Electron microscopic study on aerosol-assisted synthesis of aluminum organophosphonates using flexible colloidal PS-b-PEO templates. <b>2012</b> , 28, 12901-8	34
1368	Synthesis of the first heterometalic star-shaped oxido-bridged MnCu3 complex and its conversion into trinuclear species modulated by pseudohalides (N3(-), NCS- and NCO-): structural analyses and magnetic properties. <b>2012</b> , 41, 462-73	79

## (2012-2012)

1367	Highly selective electrochemical reduction of carbon dioxide using Cu based metal organic framework as an electrocatalyst. <b>2012</b> , 25, 70-73	194
1366	Synthesis, structures, and properties of alkali and alkaline earth coordination polymers based on V-shaped ligand. <b>2012</b> , 14, 6812	28
1365	Functional tolerance in an isoreticular series of highly porous metal-organic frameworks. <b>2012</b> , 41, 6277-82	17
1364	Two Large-Pore MetalâDrganic Frameworks Derived from a Single Polytopic Strut. <b>2012</b> , 12, 1075-1080	31
1363	Copper(I) coordination polymers of 2,2'-dipyridylamine derivatives: syntheses, structures, and luminescence. <b>2012</b> , 41, 5280-93	53
1362	C2-symmetric benzene-based hydrogels with unique layered structures for controllable organic dye adsorption. <b>2012</b> , 8, 3231	57
1361	Syntheses and Crystal Structures of Two 3D Lead(II) Coordination Polymers with Isonicotinic Acid N-Oxide and Pseudohalides. <b>2012</b> , 638, 461-465	5
1360	Structural properties of metal-organic frameworks within the density-functional based tight-binding method. <b>2012</b> , 249, 335-342	35
1359	Highly luminescent metal-organic frameworks through quantum dot doping. <b>2012</b> , 8, 80-8	119
1358	Swelling Hybrid Solids. <b>2012</b> , 638, 1897-1909	27
1358 1357	Swelling Hybrid Solids. <b>2012</b> , 638, 1897-1909  Combination of magnetic susceptibility and electron paramagnetic resonance to monitor the 1D to 2D solid state transformation in flexible metal-organic frameworks of Co(II) and Zn(II) with 1,4-bis(triazol-1-ylmethyl)benzene. <b>2012</b> , 51, 4403-10	27 34
	Combination of magnetic susceptibility and electron paramagnetic resonance to monitor the 1D to 2D solid state transformation in flexible metal-organic frameworks of Co(II) and Zn(II) with	
1357	Combination of magnetic susceptibility and electron paramagnetic resonance to monitor the 1D to 2D solid state transformation in flexible metal-organic frameworks of Co(II) and Zn(II) with 1,4-bis(triazol-1-ylmethyl)benzene. <b>2012</b> , 51, 4403-10  Deconstructing the crystal structures of metal-organic frameworks and related materials into their	34
1357	Combination of magnetic susceptibility and electron paramagnetic resonance to monitor the 1D to 2D solid state transformation in flexible metal-organic frameworks of Co(II) and Zn(II) with 1,4-bis(triazol-1-ylmethyl)benzene. 2012, 51, 4403-10  Deconstructing the crystal structures of metal-organic frameworks and related materials into their underlying nets. 2012, 112, 675-702  Metalâlgand ratio-controlled assembly of two pairs of Co(II) complexes: syntheses, structures and	34 1794
1357 1356 1355	Combination of magnetic susceptibility and electron paramagnetic resonance to monitor the 1D to 2D solid state transformation in flexible metal-organic frameworks of Co(II) and Zn(II) with 1,4-bis(triazol-1-ylmethyl)benzene. 2012, 51, 4403-10  Deconstructing the crystal structures of metal-organic frameworks and related materials into their underlying nets. 2012, 112, 675-702  Metalâlgand ratio-controlled assembly of two pairs of Co(II) complexes: syntheses, structures and magnetic properties. 2012, 14, 4478	34 1794 44
1357 1356 1355 1354	Combination of magnetic susceptibility and electron paramagnetic resonance to monitor the 1D to 2D solid state transformation in flexible metal-organic frameworks of Co(II) and Zn(II) with 1,4-bis(triazol-1-ylmethyl)benzene. 2012, 51, 4403-10  Deconstructing the crystal structures of metal-organic frameworks and related materials into their underlying nets. 2012, 112, 675-702  Metalâllgand ratio-controlled assembly of two pairs of Co(II) complexes: syntheses, structures and magnetic properties. 2012, 14, 4478  Emerging concepts in solid-state hydrogen storage: the role of nanomaterials design. 2012, 5, 5951  Mechanochemical solid-state transformations from a 3D lead(II) chloride triazole carboxylate coordination polymer to its bromide/thiocyanate analogs via anion-replacements: precursors for	34 1794 44 113
1357 1356 1355 1354 1353	Combination of magnetic susceptibility and electron paramagnetic resonance to monitor the 1D to 2D solid state transformation in flexible metal-organic frameworks of Co(II) and Zn(II) with 1,4-bis(triazol-1-ylmethyl)benzene. 2012, 51, 4403-10  Deconstructing the crystal structures of metal-organic frameworks and related materials into their underlying nets. 2012, 112, 675-702  Metalâligand ratio-controlled assembly of two pairs of Co(II) complexes: syntheses, structures and magnetic properties. 2012, 14, 4478  Emerging concepts in solid-state hydrogen storage: the role of nanomaterials design. 2012, 5, 5951  Mechanochemical solid-state transformations from a 3D lead(II) chloride triazole carboxylate coordination polymer to its bromide/thiocyanate analogs via anion-replacements: precursors for the preparation of lead(II) chloride/bromide/sulfide nanoparticles. 2012, 14, 5130	34 1794 44 113

1349	Hydrogen storage in metal-organic frameworks. <b>2012</b> , 112, 782-835	2988
1348	A facile one-step solvothermal synthesis of graphene/rod-shaped TiOâlhanocomposite and its improved photocatalytic activity. <b>2012</b> , 4, 4641-9	109
1347	Low temperature synthesis of graphene-wrapped LiFePO4 nanorod cathodes by the polyol method. <b>2012</b> , 22, 17215	59
1346	Syntheses Study of Keggin POM Supporting MOFs System. <b>2012</b> , 12, 2242-2250	51
1345	Two New Coordination Polymers with Co(II) and Mn(II): Selective Gas Adsorption and Magnetic Studies. <b>2012</b> , 12, 2999-3005	50
1344	Methane storage in metal organic frameworks. <b>2012</b> , 22, 16698	138
1343	Design and Synthesis of Mixed Valent Coordination Networks Containing Pyridine Appended Terpyridyl, Halide, and Dicarboxylates. <b>2012</b> , 12, 4264-4274	21
1342	3,6-Connected Metalâ©rganic Frameworks Based on Triscarboxylate as a 3-Connected Organic Node and a Linear Trinuclear Co3(COO)6 Secondary Building Unit as a 6-Connected Node. <b>2012</b> , 12, 4186-419.	3 <sup>43</sup>
1341	A Porous Metal-Organic Framework Based on Triazoledicarboxylate Ligands âlsynthesis, Structure, and Gas-Sorption Studies. <b>2012</b> , 2012, 3562-3568	16
1340	Tuning the Formations of MetalâDrganic Frameworks by Modification of Ratio of Reactant, Acidity of Reaction System, and Use of a Secondary Ligand. <b>2012</b> , 12, 281-288	7 <sup>2</sup>
1339	Well-studied Cu-BTC still serves surprises: evidence for facile Cu2+/Cu+ interchange. <b>2012</b> , 14, 4383-90	71
1338	Effect of Functionalized Linker on CO2 Binding in Zeolitic Imidazolate Frameworks: Density Functional Theory Study. <b>2012</b> , 116, 16985-16991	58
1337	Highly potent bactericidal activity of porous metal-organic frameworks. <b>2012</b> , 1, 225-38	105
1336	Accessible surface area of porous materials: understanding theoretical limits. <b>2012</b> , 24, 3130-3	46
1335	Preparation of highly moisture-resistant black-colored metal organic frameworks. 2012, 24, 4010-3	135
1334	In Situ X-ray Structural Studies of a Flexible Host Responding to Incremental Gas Loading. <b>2012</b> , 124, 4997-5000	19
1333	In situ X-ray structural studies of a flexible host responding to incremental gas loading. <b>2012</b> , 51, 4913-6	59
1332	Graphene-CdS nanocomposites: facile one-step synthesis and enhanced photoelectrochemical cytosensing. <b>2012</b> , 18, 4974-81	130

1331	Screening CO2/N2 selectivity in metal-organic frameworks using Monte Carlo simulations and ideal adsorbed solution theory. <b>2012</b> , 90, 825-832	41
1330	Porous metalloporphyrinic frameworks constructed from metal 5,10,15,20-tetrakis(3,5-biscarboxylphenyl)porphyrin for highly efficient and selective catalytic oxidation of alkylbenzenes. <b>2012</b> , 134, 10638-45	244
1329	Hydrogen Storage in New MetalâØrganic Frameworks. <b>2012</b> , 116, 13143-13151	154
1328	Charge-transfer guest interactions in luminescent MOFs: implications for solid-state temperature and environmental sensing. <b>2012</b> , 41, 8869-77	71
1327	Photoresponse Characteristics of Archetypal MetalâDrganic Frameworks. <b>2012</b> , 116, 3112-3121	29
1326	Chemistry, physics and biology of graphene-based nanomaterials: new horizons for sensing, imaging and medicine. <b>2012</b> , 22, 14313	105
1325	A series of isostructural mesoporous metal-organic frameworks obtained by ion-exchange induced single-crystal to single-crystal transformation. <b>2012</b> , 41, 3953-5	117
1324	Imparting functionality to a metal-organic framework material by controlled nanoparticle encapsulation. <b>2012</b> , 4, 310-6	1549
1323	A mixed-valence lanthanide metalâBrganic framework, templated by 2,2?-bipyridine formed in situ reaction: synthesis, structure, and luminescent properties. <b>2012</b> , 14, 5285	11
1322	Computer simulation of gas adsorption in modified COF-108: the impregnation of C60 into COF-108. <b>2012</b> , 38, 595-603	1
1321	Large-scale screening of hypothetical metal-organic frameworks. <b>2011</b> , 4, 83-9	882
1320	Multifunctional 3-Fold Interpenetrated Porous MetalâDrganic Frameworks Composed of Unprecedented Self-Catenated Networks. <b>2012</b> , 12, 3392-3396	46
1319	Molecular-level characterization of the breathing behavior of the jungle-gym-type DMOF-1 metal-organic framework. <b>2012</b> , 134, 4207-15	79
1318	Interpenetrated metalâBrganic frameworks and their uptake of CO2 at relatively low pressures. <b>2012</b> , 22, 10345	64
1317	Density functional theory study of interactions of cyclotrimethylene trinitramine (RDX) and triacetone triperoxide (TATP) with metalaBrganic framework (IRMOF-1(Be)). <b>2012</b> , 23, 1143-1154	5
1316	The relevance of metal organic frameworks (MOFs) in inorganic materials chemistry. <b>2012</b> , 124, 339-353	28
1315	Molecular simulations of adsorption of RDX and TATP on IRMOF-1(Be). <b>2012</b> , 18, 3363-78	9
1314	The synthesis of multilayer graphene materials by the fluorination of carbon nanodiscs/nanocones. <b>2012</b> , 50, 3897-3908	21

1313	MetalâBrganic frameworks constructed from three kinds of new Fe-containing secondary building units. <b>2012</b> , 384, 219-224	25
1312	Synthesis, characterization and hydrogen adsorption properties of metalâBrganic framework Al-TCBPB. <b>2012</b> , 37, 5100-5107	13
1311	Effects of structural modifications on the hydrogen storage capacity of MOF-5. <b>2012</b> , 37, 5777-5783	22
1310	Enhancement of hydrogen adsorption by alkali-metal cation doping of metal-organic framework-5. <b>2012</b> , 37, 6721-6726	30
1309	MetalâBrganic framework MOF-199 as an efficient heterogeneous catalyst for the aza-Michael reaction. <b>2012</b> , 425-426, 44-52	114
1308	A templated lanthanide metal-organic framework: synthesis, structure, and luminescence of (bpy) [Eu (ip)1.5(H2O)4] (bpy = 4,4?-bipyridine, ip = isophthalate). <b>2012</b> , 15, 159-162	11
1307	Two sandwich-type compounds from Keggin polyoxometalate, d10 metals and the product of in situ catalyzed decarboxylation of pyrazine-2,3-dicarboxylic acid. <b>2012</b> , 15, 238-242	16
1306	Syntheses, structures and magnetic properties of two new complexes constructed from mixed rigid ligands. <b>2012</b> , 16, 55-60	12
1305	Synthesis, crystal structures, and photoluminescence of two novel zinc coordination polymers built from 2,2âE(ethyne-1,2-diyl)diterephthalate. <b>2012</b> , 17, 173-176	3
1304	A 3D photoluminescent Cd(II) polymer based on mixed 3,5-bis-oxyacetate-benzoic acid and rigid bis(imidazole) ligands with an unusual (4,8)-connected topology. <b>2012</b> , 17, 180-183	21
1303	Dopamine molecularly imprinted electrochemical sensor based on grapheneâthitosan composite. <b>2012</b> , 75, 108-114	84
1302	Polypyrrole/carbon nanotube nanocomposite enhanced the electrochemical capacitance of flexible graphene film for supercapacitors. <b>2012</b> , 197, 319-324	169
1301	A new aluminium-based microporous metalâBrganic framework: Al(BTB) (BTB=1,3,5-benzenetrisbenzoate). <b>2012</b> , 157, 50-55	53
1300	Solvothermal syntheses, structures and properties of two new In-MOFs based on rigid 1,4-naphthalenedicarboxylate ligand. <b>2012</b> , 155, 281-286	21
1299	A porous layered metal-organic framework from 🕮 tacking of layers based on a Co6 building unit. <b>2012</b> , 157, 24-32	9
1298	Syntheses, structures, and hydrogen adsorption properties of microporous metal-organic frameworks incorporating 3,5-dipyridyl-1,2,4-triazole. <b>2012</b> , 156, 202-208	9
1297	Synthesis, structure and magnetic property of a new nickel (II) 1,4-benzenedicarboxylate. <b>2012</b> , 1010, 184-189	1
1296	Construction of metal-organic frameworks: versatile behaviour of a ligand containing mono- and bidentate coordination sites. <b>2012</b> , 18, 267-76	12

Synthesis, Crystal Structure and Gas Adsorption Properties of Four PdaIn Coordination Polymers Containing Potential Catalytic Active Sites. <b>2012</b> , 2012, 807-812	6
Synthesis and Structure of Lead(II) Complexes of (I&Benzenecarboxylato)tricarbonylchromium. <b>2012</b> , 2012, 292-297	4
Synthesis and Characterization of [2.2]Paracyclophane-Containing Conjugated Microporous Polymers. <b>2012</b> , 213, 572-579	8
Functionalization of silicon nanowire surfaces with metal-organic frameworks. <b>2012</b> , 5, 109-116	55
Activated carbon @ MIL-101(Cr): a potential metal-organic framework composite material for hydrogen storage. <b>2013</b> , 37, 746-753	75
Reinforcement of biodegradable poly(butylene succinate) with low loadings of graphene oxide. <b>2013</b> , 127, 5094-5099	29
Synthesis, Structure and Thermal Properties of Two New Nickel(II) Coordination Polymers Based on Diphenic Acid and Bis(Imidazole) Ligands. <b>2013</b> , 43, 335-341	2
Evaluation of graphene nanosheets influence on the physical properties of PVDF/PMMA blend. <b>2013</b> , 20, 1	41
Doubly interpenetrated chiral (10,3)-a network with charge-transfer-type guest inclusion. <b>2013</b> , 52, 1667-9	31
One-dimensional alignment of strong Lewis acid sites in a porous coordination polymer. <b>2013</b> , 49, 10459-61	37
Preparation of multi-walled carbon nanotube incorporated MIL-53-Cu composite metalabrganic framework with enhanced methane sorption. <b>2013</b> , 19, 1583-1586	37
A microporous hydrogen-bonded organic framework: exceptional stability and highly selective adsorption of gas and liquid. <b>2013</b> , 135, 11684-7	246
Solvothermal Synthesis, Structural Diversity, and Properties of Alkali MetalâDrganic Frameworks Based on V-shaped Ligand. <b>2013</b> , 13, 3785-3793	23
Photo-responsive MOFs: light-induced switching of porous single crystals containing a photochromic diarylethene. <b>2013</b> , 49, 8012-4	105
A novel magnetic metal organic framework nanocomposite for extraction and preconcentration of heavy metal ions, and its optimization via experimental design methodology. <b>2013</b> , 180, 1073-1084	98
Expanding applications of copper-based metalâBrganic frameworks in catalysis: Oxidative CâD coupling by direct CâH activation of ethers over Cu2(BPDC)2(BPY) as an efficient heterogeneous catalyst. <b>2013</b> , 306, 38-46	58
A new Zn(II) complex of unusual unidentate coordination of 4,4?-bipyridine, a new precursor for the preparation of zinc(II) oxide nanoparticles. <b>2013</b> , 54, 571-576	7
Preparation and properties of 3-aminopropyltriethoxysilane functionalized graphene/polyurethane nanocomposite coatings. <b>2013</b> , 291, 2765-2773	28
	Synthesis and Structure of Lead(II) Complexes of (Ib-Benzenecarboxylato)tricarbonylchromium. 2012, 2012, 292-297  Synthesis and Characterization of [2.2]Paracyclophane-Containing Conjugated Microporous Polymers. 2012, 213, 572-579  Functionalization of silicon nanowire surfaces with metal-organic frameworks. 2012, 5, 109-116  Activated carbon @ MIL-101(Cr): a potential metal-organic framework composite material for hydrogen storage. 2013, 37, 746-753  Reinforcement of biodegradable poly(butylene succinate) with low loadings of graphene oxide. 2013, 127, 5094-5099  Synthesis, Structure and Thermal Properties of Two New Nickel(II) Coordination Polymers Based on Diphenic Acid and Bis(Imidazole) Ligands. 2013, 43, 335-341  Evaluation of graphene nanosheets influence on the physical properties of PVDF/PMMA blend. 2013, 20, 1  Doubly interpenetrated chiral (10,3)-a network with charge-transfer-type guest inclusion. 2013, 52, 1667-9  One-dimensional alignment of strong Lewis acid sites in a porous coordination polymer. 2013, 49, 10459-61  Preparation of multi-walled carbon nanotube incorporated MIL-53-Cu composite metaläBrganic framework with enhanced methane sorption. 2013, 19, 1533-1586  A microporous hydrogen-bonded organic framework: exceptional stability and highly selective adsorption of gas and liquid. 2013, 13, 3785-3793  Photo-responsive MOFs: light-induced switching of porous single crystals containing a photochromic diarylethene. 2013, 49, 8012-4  A novel magnetic metal organic framework nanocomposite for extraction and preconcentration of heavy metal ions, and its optimization via experimental design methodology. 2013, 180, 1073-1084  Expanding applications of copper-based metaläBrganic frameworks in catalysts. Colidative CaD coupling by direct CaB activation of ethers over Cu2 (BPDC)2 (BPY) as an efficient heterogeneous catalyst. 2013, 306, 38-46  A new Zn(II) complex of unusual unidentate coordination of 4,47-bipyridine, a new precursor for the preparation of zinc(II) oxide nanoparticles. 2013, 54,571-57

1277	Defective Graphene Supported MPd12 (M = Fe, Co, Ni, Cu, Zn, Pd) Nanoparticles as Potential Oxygen Reduction Electrocatalysts: A First-Principles Study. <b>2013</b> , 117, 1350-1357	83
1276	Cooperative catalysis by acidâBase bifunctional graphene. <b>2013</b> , 3, 13655	31
1275	Crystallization in THF: the possibility of one-pot synthesis of mixed matrix membranes containing MOF MIL-68(Al). <b>2013</b> , 15, 9483	69
1274	An Unprecedented Homochiral Metalâ©rganic Framework Based on Achiral Nanosized Pyridine and V-Shaped Polycarboxylate Acid Ligand. <b>2013</b> , 13, 440-445	40
1273	Hydrogen storage: beyond conventional methods. <b>2013</b> , 49, 8735-51	355
1272	Single- and Double-Layer Structures and Sorption Properties of Two Microporous MetalâDrganic Frameworks with Flexible Tritopic Ligand. <b>2013</b> , 13, 1458-1463	38
1271	Facile Synthesis of a Nanocrystalline MetalâDrganic Framework Impregnated with a Phosphovanadomolybdate and Its Remarkable Catalytic Performance in Ultradeep Oxidative Desulfurization. <b>2013</b> , 5, 3086-3091	85
1270	Current Development of Photocatalysts for Solar Energy Conversion. <b>2013</b> , 279-304	1
1269	Bench-Top Fabrication of Hierarchically Structured High-Surface-Area Electrodes. <b>2013</b> , 23, 3030-3039	54
1268	Salen-based coordination polymers of manganese and the rare-earth elements: synthesis and catalytic aerobic epoxidation of olefins. <b>2013</b> , 19, 1986-95	59
1267	A Copper MetalâDrganic Framework as an Efficient and Recyclable Catalyst for the Oxidative Cross-Dehydrogenative Coupling of Phenols and Formamides. <b>2013</b> , 5, 3068-3077	41
1266	Inorganic Capsules: Redox-Active Guests in Metal Cages. <b>2013</b> , 331-345	
1265	Reactions of (E)-5-(Pyridin-4-yl-methyleneamino)isophthalic Acid (LH2) with Triorganotin Oxides and âthloride. Formation of One-Dimensional- and Two-Dimensional-Coordination Polymers. <b>2013</b> , 13, 4607-4614	23
1264	1D, 2D and 3D coordination polymers of 5,5?-methylenebis(oxy)dinicotinic acid with Co(II), Mn(II), Cu(II) and Cd(II) ions. <b>2013</b> , 15, 7257	9
1263	Enhanced photoluminescence from zinc oxide by plasmonic resonance of reduced graphene oxide. <b>2013</b> , 114, 074903	17
1262	Benzoin derived reduced graphene oxide (rGO) and its nanocomposite: application in dye removal and peroxidase-like activity. <b>2013</b> , 3, 21475	30
1261	Adsorption in Metal-Organic Frameworks. <b>2013</b> , 989-1006	3
1260	Coordination polymers based on 3,3?,4,4?-benzophenone-tetracarboxylate and N-containing pillars: syntheses, structure, characterization and properties. <b>2013</b> , 15, 7505	12

1259	Open carbon frameworks - a search for optimal geometry for hydrogen storage. <b>2013</b> , 19, 4079-87	13
1258	Carbon Dioxide Capture and Activation11This chapter was prepared using literature published before April, 2011 <b>2013</b> , 475-504	1
1257	Reduced Graphene Oxide Mediated SnO2 Nanocrystals for Enhanced Gas-sensing Properties. <b>2013</b> , 29, 157-160	67
1256	Solid- and solution-state structural transformations in flexible lead(II) supramolecular polymers. <b>2013</b> , 15, 8915	17
1255	A highly porous interpenetrated MOF-5-type network based on bipyrazolate linkers. <b>2013</b> , 15, 9352	9
1254	Electrochemical performance of graphene and copper oxide composites synthesized from a metalâBrganic framework (Cu-MOF). <b>2013</b> , 3, 19051	39
1253	Facile synthesis of few-layer graphene by mild solvent thermal exfoliation of highly oriented pyrolytic graphite. <b>2013</b> , 231, 1-11	20
1252	The asc trinodal platform: two-step assembly of triangular, tetrahedral, and trigonal-prismatic molecular building blocks. <b>2013</b> , 52, 2902-5	87
1251	Opportunities and challenges in carbon dioxide capture. <b>2013</b> , 1, 69-87	298
1250	Fluorous metal-organic frameworks with enhanced stability and high H2/CO2 storage capacities. <b>2013</b> , 3, 3312	118
1249	Microwave synthesis and characterization of MOF-74 (M=Ni, Mg) for gas separation. <b>2013</b> , 180, 114-122	164
1248	2D-Coordination Polymer Containing Interconnected 82-Membered Organotin Macrocycles. <b>2013</b> , 13, 4655-4658	22
1247	A supramoleculear self-assembled flexible open framework based on the coordination of honeycomb layers possessing octahedral and tetrahedral CoII geometries. <b>2013</b> , 3, 19889	2
1246	Review of hydrogen storage techniques for on board vehicle applications. <b>2013</b> , 38, 14595-14617	495
1245	Effect of pH/metal ion on the structure of metalâBrganic frameworks based on novel bifunctionalized ligand 4?-carboxy-4,2?:6?,4??-terpyridine. <b>2013</b> , 15, 1460	59
1244	Gas sorption, second-order nonlinear optics, and luminescence properties of a series of lanthanide-organic frameworks based on nanosized tris((4-carboxyl)phenylduryl)amine ligand. <b>2013</b> , 52, 12758-62	94
1243	High-rate synthesis of Cu-BTC metal-organic frameworks. <b>2013</b> , 49, 11518-20	102
1242	The chemistry and applications of metal-organic frameworks. <b>2013</b> , 341, 1230444	9059

1241	Two birds with one stone: Self-assembly of metalâBrganic coordination complexes with discrete metallamacrocycle and 1D zigzag chain based on a flexible dicarboxylate ligand. <b>2013</b> , 28, 75-80	7
1240	Synthesis and hydrogen-storage performance of interpenetrated MOF-5/MWCNTs hybrid composite with high mesoporosity. <b>2013</b> , 38, 10950-10955	44
1239	Computational screening of porous carbons, zeolites, and metal organic frameworks for desulfurization and decarburization of biogas, natural gas, and flue gas. <b>2013</b> , 59, 2928-2942	62
1238	Ultrasonic Breaking of Fibers and Microparticles into Mesoporous Particles with High Loading of Magnetic Nanoparticles. <b>2013</b> , 298, 575-582	4
1237	Synthesis and Crystal Analysis of Nano Metal-Organic Frameworks MIL-53(Cr). 2013, 645, 168-171	5
1236	Insights into Multi-Objective Design of MetalâDrganic Frameworks. <b>2013</b> , 13, 4208-4212	19
1235	Preparation of a freestanding, macroporous reduced graphene oxide film as an efficient and recyclable sorbent for oils and organic solvents. <b>2013</b> , 1, 9427	78
1234	Application of Metalâ©rganic Frameworks in Fine Chemical Synthesis. <b>2013</b> , 293-331	2
1233	Wings waving: coordinating solvent-induced structural diversity of new Cu(II) flexible MOFs with crystal to crystal transformation and gas sorption capability. <b>2013</b> , 15, 9513	16
1232	A highly porous agw-type metalâBrganic framework and its CO2 and H2 adsorption capacity. <b>2013</b> , 15, 9348	31
1231	MetalâBrganic framework with two different types of rigid triscarboxylates: net topology and gas sorption behaviour. <b>2013</b> , 15, 9491	9
1230	A family of porous lonsdaleite-e networks obtained through pillaring of decorated kagom'lattice sheets. <b>2013</b> , 135, 14016-9	87
1229	Synthesis, Structure and Properties of a Novel Metal-Organic Coordination Polymer, [Zn (NH3)2(BDC)]n. <b>2013</b> , 575-576, 30-36	1
1228	Crystal structure of diacetato-bis(2-methyl-2-propylamine)zinc(II). <b>2013</b> , 54, 177-181	
1227	Fabrication of new metal phosphonates from tritopic trisphosphonic acid containing methyl groups and auxiliary ligands: syntheses, structures and gas adsorption properties. <b>2013</b> , 15, 1860	34
1226	Stepwise tuning of the substituent groups from mother BTB ligands to two hexaphenylbenzene based ligands for construction of diverse coordination polymers. <b>2013</b> , 15, 8511	8
1225	Temperature-controlled synthesis and luminescent properties of two novel coordination polymers modeled by hexa-carboxylate ligand derived from cyclotriphosphazene. <b>2013</b> , 42, 2588-93	29
1224	Various crystal structures based on 4,4?-(diethynylanthracene-9,10-diyl) dibenzoic acid: from 0D dimer to 3D net framework. <b>2013</b> , 15, 8273	14

1223	Programmed pore architectures in modular quaternary metal-organic frameworks. 2013, 135, 17731-4	148
1222	A new topology constructed from an octamolybdate and metallomacrocycle coordination complex. <b>2013</b> , 15, 249-251	13
1221	Enhancement of photocatalytic property of ZnO for gaseous formaldehyde degradation by modifying morphology and crystal defect. <b>2013</b> , 550, 190-197	46
1220	Design and construction of coordination polymers with mixed-ligand synthetic strategy. <b>2013</b> , 257, 1282-1305	648
1219	Rapid and enhanced activation of microporous coordination polymers by flowing supercritical CO2. <b>2013</b> , 49, 1419-21	53
1218	Solid Acid Catalysts for Coumarin Synthesis by the Pechmann Reaction: MOFs versus Zeolites. <b>2013</b> , 5, 1024-1031	76
1217	Mn(II) metalâBrganic frameworks based on Mn3 clusters: from 2D layer to 3D framework by the âBillaringâlapproach. <b>2013</b> , 15, 1613	57
1216	Increased H2 gravimetric storage capacity in truncated carbon slit pores modeled by Grand Canonical Monte Carlo. <b>2013</b> , 53, 208-215	18
1215	Stable Mg-MetalâDrganic Framework (MOF) and Unstable Zn-MOF Based on Nanosized Tris((4-carboxyl)phenylduryl)amine Ligand. <b>2013</b> , 13, 6-9	63
1214	Two New (3,6)-Connected Frameworks Based on an Unsymmetrical Tritopic Pyridyldicarboxylate Ligand and Co2 Dimer: Structures, Magnetic, and Sorption Properties. <b>2013</b> , 13, 701-707	24
1213	The effect of heating rate on porosity production during the low temperature reduction of graphite oxide. <b>2013</b> , 53, 73-80	50
1212	Graphene and its derivatives for cell biotechnology. <b>2013</b> , 138, 72-86	40
1211	Comparison of the catalytic activity of MOFs and zeolites in Knoevenagel condensation. 2013, 3, 500-507	155
1210	Synthesis and characterization of nitrogen-doped graphene hydrogels by hydrothermal route with urea as reducing-doping agents. <b>2013</b> , 1, 2248-2255	313
1209	Assembly of graphene nanocomposites into honeycomb-structured macroporous films with enhanced hydrophobicity. <b>2013</b> , 37, 1307	16
1208	Polymer composite of poly(vinyl phenol)-reduced graphene oxide reduced by vitamin C in low energy consuming write-onceâtead-many times memory devices. <b>2013</b> , 14, 175-181	50
1207	Oxidation and Reduction of Various Substrates Over a Pd(II) Containing Post-Synthesis Metal Organic Framework. <b>2013</b> , 143, 122-125	6
1206	Interpenetration of Metal Organic Frameworks for Carbon Dioxide Capture and Hydrogen Purification: Good or Bad?. <b>2013</b> , 117, 71-77	34

1205	Syntheses and Structures of Terpyridine-Metal Complexes. <b>2013</b> , 639, 197-202	6
1204	A novel Ag(I) coordination polymers based on 2-(pyridin-4-yl)-1H-imidazole-4,5-dicarboxylic acid: Syntheses, structures, ferroelectric, dielectric and optical properties. <b>2013</b> , 406, 95-99	18
1203	Adsorption of volatile organic compounds by metal-organic frameworks MOF-177. <b>2013</b> , 1, 713-718	77
1202	Solvent exchange and discrimination in crystalline state. Formation and properties of copper(II) complexes containing 2,3-bis(isonicotinoyloxy)naphthalene. <b>2013</b> , 1047, 95-101	3
1201	Synthesis, structure and magnetic investigations of polycarboxylato-copper(II) complexes. <b>2013</b> , 54, 158-163	17
1200	Unusual [CdII3O2(CO2)8] clusters as SBUs for the construction of a new pcu-type metal-organic framework. <b>2013</b> , 38, 11-13	7
1199	Two novel 2-fold interpenetration frameworks constructed by 4,4?-bis(1H-imidazol-1-yl-methyl)biphenyl cobalt(II) coordination polymer and the effect of dicarboxylic acid. <b>2013</b> , 402, 128-132	7
1198	Self-assembly of three cadmium(II) complexes based on 5-methylisophthalic acid and flexible bis(imidazole) ligands with different spacer lengths. <b>2013</b> , 407, 153-159	10
1197	Solvatochromic behavior of chiral mesoporous metal-organic frameworks and their applications for sensing small molecules and separating cationic dyes. <b>2013</b> , 19, 3639-45	189
1196	Metal-organic frameworks and self-assembled supramolecular coordination complexes: comparing and contrasting the design, synthesis, and functionality of metal-organic materials. <b>2013</b> , 113, 734-77	2304
1196 1195		2304
	and contrasting the design, synthesis, and functionality of metal-organic materials. <b>2013</b> , 113, 734-77	
1195	and contrasting the design, synthesis, and functionality of metal-organic materials. <b>2013</b> , 113, 734-77  A Mechanistic Study of Graphene Fluorination. <b>2013</b> , 117, 5407-5415  Conjugated microporous polymers consisting of tetrasubstituted [2.2]Paracyclophane junctions.	16
1195 1194	and contrasting the design, synthesis, and functionality of metal-organic materials. 2013, 113, 734-77  A Mechanistic Study of Graphene Fluorination. 2013, 117, 5407-5415  Conjugated microporous polymers consisting of tetrasubstituted [2.2]Paracyclophane junctions. 2013, 51, 2311-2316  Control over Catenation in Pillared Paddlewheel Metalâ®rganic Framework Materials via	16
1195 1194 1193	and contrasting the design, synthesis, and functionality of metal-organic materials. 2013, 113, 734-77  A Mechanistic Study of Graphene Fluorination. 2013, 117, 5407-5415  Conjugated microporous polymers consisting of tetrasubstituted [2.2]Paracyclophane junctions. 2013, 51, 2311-2316  Control over Catenation in Pillared Paddlewheel MetalâDrganic Framework Materials via Solvent-Assisted Linker Exchange. 2013, 25, 739-744  pH-Dependent Interpenetrated, Polymorphic, Cd2+- and BTB-based Porous Coordination Polymers	16 14 120
1195 1194 1193 1192 1191	and contrasting the design, synthesis, and functionality of metal-organic materials. 2013, 113, 734-77  A Mechanistic Study of Graphene Fluorination. 2013, 117, 5407-5415  Conjugated microporous polymers consisting of tetrasubstituted [2.2]Paracyclophane junctions. 2013, 51, 2311-2316  Control over Catenation in Pillared Paddlewheel Metalâ®rganic Framework Materials via Solvent-Assisted Linker Exchange. 2013, 25, 739-744  pH-Dependent Interpenetrated, Polymorphic, Cd2+- and BTB-based Porous Coordination Polymers with Open Metal Sites. 2013, 13, 981-985  Crystal-to-crystal transformations of a series of isostructural metal-organic frameworks with	16 14 120 59 26
1195 1194 1193 1192 1191	A Mechanistic Study of Graphene Fluorination. 2013, 117, 5407-5415  Conjugated microporous polymers consisting of tetrasubstituted [2.2]Paracyclophane junctions. 2013, 51, 2311-2316  Control over Catenation in Pillared Paddlewheel MetalâDrganic Framework Materials via Solvent-Assisted Linker Exchange. 2013, 25, 739-744  pH-Dependent Interpenetrated, Polymorphic, Cd2+- and BTB-based Porous Coordination Polymers with Open Metal Sites. 2013, 13, 981-985  Crystal-to-crystal transformations of a series of isostructural metal-organic frameworks with different sizes of ligated solvent molecules. 2013, 52, 3891-9	16 14 120 59 26

## (2013-2013)

1187	Expanded porous MOF-505 analogue exhibiting large hydrogen storage capacity and selective carbon dioxide adsorption. <b>2013</b> , 52, 2823-9	82
1186	The effect of substrate size in the Beckmann rearrangement: MOFs vs. zeolites. <b>2013</b> , 204, 94-100	28
1185	Exploring frontiers of high surface area metalâbrganic frameworks. <b>2013</b> , 4, 1781	48
1184	Coordination polymers of flexible poly-carboxylic acids with metal ions. IV. Syntheses, structures, and magnetic properties of polymeric networks of 5-(3,5)-(dicarboxybenzyloxy)isophthalic acid with Cd(II), Cu(II), Co(II) and Mn(II) ions. <b>2013</b> , 15, 2853	27
1183	RbjMk[Fe(CN)6]l (M = Co, Ni) Prussian Blue Analogue Hollow Nanocubes: a New Example of a Multilevel Pore System. <b>2013</b> , 25, 42-47	65
1182	Investigation on Hydrogenation of MetalâØrganic Frameworks HKUST-1, MIL-53, and ZIF-8 by Hydrogen Spillover. <b>2013</b> , 117, 7565-7576	106
1181	Targeted synthesis of a mesoporous triptycene-derived covalent organic framework. <b>2013</b> , 15, 1524-1527	110
1180	Selective adsorption of ethylene over ethane and propylene over propane in the metalâ <b>ō</b> rganic frameworks M2(dobdc) (M = Mg, Mn, Fe, Co, Ni, Zn). <b>2013</b> , 4, 2054	327
1179	One-pot synthesis of a novel supramolecular compound based on three kinds of Keggin polyoxoanions PMo12O403â with different coordination modes. <b>2013</b> , 30, 173-177	7
1178	Copper-Catalyzed Synthesis of ⊞Aryl Ketones by Metalâ©rganic Framework MOF-199 as an Efficient Heterogeneous Catalyst. <b>2013</b> , 5, 1822-1831	32
1177	Solvent-Induced Reversible Crystal-to-Amorphous Transformation Properties of Cobalt(II) 4-Aminomethylpyridine-Sulfate with Chromotropism. <b>2013</b> , 66, 477	7
1176	New materials in solid-phase microextraction. <b>2013</b> , 47, 68-83	178
1175	Shape- and Morphology-Controlled Sustainable Synthesis of Cu, Co, and In Metal Organic Frameworks with High CO2 Capture Capacity. <b>2013</b> , 1, 66-74	42
1174	Ligand-Free Copper-Catalyzed Coupling of Phenols with Nitroarenes by using a MetalâDrganic Framework as a Robust and Recoverable Catalyst. <b>2013</b> , 5, 2374-2381	35
1173	Gas Separation Properties of Metal Organic Framework (MOF-5) Membranes. <b>2013</b> , 52, 1102-1108	143
1172	New metal-organic frameworks from triptycene: structural diversity from bulky bridges. <b>2013</b> , 42, 8026-33	14
1171	MetalâBrganic frameworks as platforms for clean energy. <b>2013</b> , 6, 1656	768
1170	Two novel MOF-74 analogs exhibiting unique luminescent selectivity. <b>2013</b> , 49, 1699-701	125

1169	Superior performance of metal-organic frameworks over zeolites as solid acid catalysts in the Prins reaction: green synthesis of nopol. <b>2013</b> , 6, 865-71	51
1168	Effect of graphene nanosheets reinforcement on the performance of Sn?Ag?Cu lead-free solder. <b>2013</b> , 562, 25-32	113
1167	A novel 3D Co(II) coordination polymer with a considerable 2D channel: Synthesis, topological structure, magnetic and electrochemical properties. <b>2013</b> , 29, 183-186	14
1166	Gas storage in a partially fluorinated highly stable three-dimensional porous metal-organic framework. <b>2013</b> , 52, 7358-66	57
1165	Solid phase extraction of Cd(II) and Pb(II) using a magnetic metal-organic framework, and their determination by FAAS. <b>2013</b> , 180, 589-597	135
1164	Isostructural metal-organic frameworks assembled from functionalized diisophthalate ligands through a ligand-truncation strategy. <b>2013</b> , 19, 5637-43	105
1163	Nano-rod catalysts: Building MOF bottles (MIL-101 family as heterogeneous single-site catalysts) around vanadium oxide ships. <b>2013</b> , 374-375, 46-52	49
1162	Polyethyleneimine incorporated metal-organic frameworks adsorbent for highly selective CO2 capture. <b>2013</b> , 3, 1859	196
1161	An open metal site metalåBrganic framework Cu(BDC) as a promising heterogeneous catalyst for the modified Friedläder reaction. <b>2013</b> , 464-465, 128-135	41
1160	Zinc coordination polymers with rigid dicarboxylates and semirigid 3,5-bis(imidazole-1-yl) pyridine: syntheses, structural topologies, and luminescent properties. <b>2013</b> , 66, 2541-2548	13
1159	Fabrication of grapheneagold nanocomposites by electrochemical co-reduction and their electrocatalytic activity toward 4-nitrophenol oxidation. <b>2013</b> , 691, 83-89	54
1158	Heterometallic Supramolecular Architecture Based on a Trinuclear [Mn(H2O)4(NiL)2] Unit: Crystal Structure and Magnetic Properties. <b>2013</b> , 23, 989-995	1
1157	Nanotechnology for Energy Production. <b>2013</b> , 1-39	
1156	Nanotechnology for Carbon Dioxide Capture. <b>2013</b> , 517-559	
1155	Graphene sheet-starch platform based on the groove recognition for the sensitive and highly selective determination of iodide in seafood samples. <b>2013</b> , 47, 396-401	12
1154	Synthesis of MOF-199 and application to CO 2 adsorption. <b>2013</b> , 4, 035016	17
1153	Development of computational methodologies for metal-organic frameworks and their application in gas separations. <b>2013</b> , 113, 8261-323	394
1152	Effect of two sonochemical procedures on achieving to different morphologies of lead(II) coordination polymer nano-structures. <b>2013</b> , 20, 1428-35	36

## (2013-2013)

1151	Ag3PO4/reduced graphite oxide sheets nanocomposites with highly enhanced visible light photocatalytic activity and stability. <b>2013</b> , 132-133, 45-53	166
1150	Metal-organic framework-199/graphite oxide hybrid composites coated solid-phase microextraction fibers coupled with gas chromatography for determination of organochlorine pesticides from complicated samples. <b>2013</b> , 115, 32-9	136
1149	Electrodeposition of PdAu Alloy Nanoparticles on Ionic Liquid Functionalized Graphene Film for the Voltammetric Determination of Oxalic Acid. <b>2013</b> , 25, 453-459	17
1148	Superprotonic conductivity in a highly oriented crystalline metal-organic framework nanofilm. <b>2013</b> , 135, 7438-41	246
1147	Microporous and mesoporous materials for gas storage and separation: a review. <b>2013</b> , 8, 618-626	31
1146	Porous 3D graphene-based bulk materials with exceptional high surface area and excellent conductivity for supercapacitors. <b>2013</b> , 3, 1408	532
1145	Six New 2D or 3D MetalâDrganic Frameworks Based on Bithiophene-Containing Ligand and Dicarboxylates: Syntheses, Structures, and Properties. <b>2013</b> , 13, 3078-3086	50
1144	Influences of lithium doping and fullerene impregnation on hydrogen storage in metal organic frameworks. <b>2013</b> , 39, 968-974	10
1143	Metal-organic frameworks displaying single crystal-to-single crystal transformation through postsynthetic uptake of metal clusters. <b>2013</b> , 4, 3232	63
1142	A heterometallic microporous MOF exhibiting high hydrogen uptake. <b>2013</b> , 165, 20-26	12
1141	Synthesis, structure and characterization of novel metalâBrganic single crystal: Dibromobis(l-proline)zinc(II). <b>2013</b> , 1033, 121-126	16
1140	Tetracarboxylato-bridged copper(II) complexes with ancillary N-chelating ligands: Syntheses, crystal structures and effect of aromatic compounds on the fluorescence property. <b>2013</b> , 49, 252-258	20
1139	A porous metal-organic framework based on Zn6O2 clusters: chemical stability, gas adsorption properties and solvatochromic behavior. <b>2013</b> , 49, 555-7	106
1138	Solvent-Induced Assembly of Octacyanometalates-Based Coordination Polymers with Unique afm1 Topology and Magnetic Properties. <b>2013</b> , 13, 5211-5219	9
1137	Self-Assembly of Rigid Three-Connecting Mesitylenetribenzoic Acid: Multifarious Supramolecular Synthons and Solvent-Induced Supramolecular Isomerism. <b>2013</b> , 13, 4721-4729	23
1136	Mail-Order Metalâ'Drganic Frameworks (MOFs): Designing Isoreticular MOF-5 Analogues Comprising Commercially Available Organic Molecules. <b>2013</b> , 117, 12159-12167	60
1135	Highly porous metal-organic framework sustained with 12-connected nanoscopic octahedra. <b>2013</b> , 42, 1708-14	54
1134	SUMOF-5: a mesoporous metal-organic framework with the tbo topology built from the dicopper paddle-wheel cluster and a new tritopic linker. <b>2013</b> , 228, 323-329	8

1133	Two polyoxometallate-based supramolecular compounds influenced by the ratio between the polyoxometallate anion and organic cation. <b>2013</b> , 69, 588-93	1
1132	Syntheses and structures of three Mn(II) coordination polymers assembled from a dithiocarboxylic acid and N-donor ligands. <b>2013</b> , 66, 1676-1685	5
1131	Syntheses, crystal structures, and fluorescent properties of two 2-D Cd(II) complexes based on 2-((1H-1,2,4-triazol-1-yl)methyl)-1H-benzimidazole and 1,2,4,5-benzenetetracarboxylate. <b>2013</b> , 66, 800-812	11
1130	Syntheses, Supramolecular Structures and Antibacterial Activities of Five Helical Transition Complexes with 5-Chloro-1-phenyl-1H-pyrazole-3,4-dicarboxylic Acid. <b>2013</b> , 31, 407-414	1
1129	MICROWAVE ABSORBING PROPERTIES OF CO/REDUCED GRAPHENE OXIDE IN KU-BAND. <b>2013</b> , 06, 1350042	1
1128	MetalâBrganic frameworks: a novel SERS substrate. <b>2013</b> , 44, 1506-1511	45
1127	Ferroelectric transition in the inorganic supramolecular complex (Hg6P4)(CuCl3)2. 2013, 8, 2925-31	8
1126	Expanded organic building units for the construction of highly porous metal-organic frameworks. <b>2013</b> , 19, 14886-94	60
1125	The asc Trinodal Platform: Two-Step Assembly of Triangular, Tetrahedral, and Trigonal-Prismatic Molecular Building Blocks. <b>2013</b> , 125, 2974-2977	17
1124	MOLECULAR SIMULATION OF HYDROGEN ADSORPTION IN ALUMINUM ORGANIC FRAMEWORK. <b>2013</b> , 27, 1350095	2
1123	Hydrothermal Synthesis of Two Zinc Coordination Polymers with 1-(1H-Tetrazol-5-ylmethyl)-1H-benzotriazole Ligands. <b>2013</b> , 639, 2317-2323	2
1122	Design and Synthesis of Porous Coordination Polymers Showing Unique Guest Adsorption Behaviors. <b>2013</b> , 86, 1117-1131	27
1121	The isolation of single MMX chains from solution: unravelling the assembly-disassembly process. <b>2013</b> , 19, 15518-29	7
1120	Spontaneous chiral resolution directed by symmetry restriction and 🖽 nteraction. 2013, 3, 2947	14
1119	Catalytic performance of Metal-Organic-Frameworks vs. extra-large pore zeolite UTL in condensation reactions. <b>2013</b> , 1, 11	8
1118	Hydrogen Sorption onto Hypercrosslinked Polymer Decorated with Metal-Organic Framework. <b>2013</b> , 2013, 1-8	2
1117	Preparation of Pd/MOF and Ru/MOF Catalysts and Catalytic Performance for Hydrogenation and Cross-coupling Reactions. <b>2014</b> , 57, 58-64	6
1116	3 Novel Materials in Solid-Phase Microextraction and Related Sample Preparation Approaches. <b>2014</b> , 88-190	

Crystal structure of poly[diaqua(μ́2-3,6-di-imidazol-1-yl-pyridazine)-(μ́3-5-nitrophthalate)dicadmium], C26H22Cd2N8O16. **2014**, 229, 458-460

1114	Large and fast single-crystal resistive humidity sensitivity of metal pnictide halides containing van der Waals host-guest interactions. <b>2014</b> , 9, 2872-9	7
1113	MetalâØrganic Frameworks: Gas Storage. <b>2014</b> , 1-19	1
1112	A Review on Breathing Behaviors of Metal-Organic-Frameworks (MOFs) for Gas Adsorption. <b>2014</b> , 7, 3198-3250	206
1111	Hydrothermal syntheses, structures, and magnetic properties of two new Mn(II) complexes with biphenyl-2,3,3?,5?-tetracarboxylic acid. <b>2014</b> , 1075, 456-461	17
1110	Coordination copolymerization of three carboxylate linkers into a pillared layer framework. <b>2014</b> , 5, 3729	46
1109	Metal Oxide-Coated Three-Dimensional Graphene Prepared by the Use of Metalâ®rganic Frameworks as Precursors. <b>2014</b> , 126, 1428-1433	83
1108	Design, synthesis, and X-ray crystal structure of a fullerene-linked metal-organic framework. <b>2014</b> , 53, 160-3	46
1107	Hydrogen atom trapping in a self-organized one-dimensional dimer. <b>2014</b> , 2, 096104	
1106	Computational screening of porous metal-organic frameworks and zeolites for the removal of SO2 and NOx from flue gases. <b>2014</b> , 60, 2314-2323	89
1105	Hydrogen adsorption in metal-organic frameworks: the role of nuclear quantum effects. <b>2014</b> , 141, 064708	20
1104	Study on the reactions of zinc carboxylate complexes with copper(II) or cobalt(II) ions. <b>2014</b> , 67, 2455-2469	2
1103	Transitionâ[lanthanide Heterometalâ[Drganic Frameworks: Synthesis, Structures, and Properties. <b>2014</b> , 231-263	8
1102	Effective adsorption of 2,4-dichlorophenol on hydrogenated graphene: kinetics and isotherms. <b>2014</b> , 59, 4752-4757	2
1101	Advanced nanoporous materials for micro-gravimetric sensing to trace-level bio/chemical molecules. <b>2014</b> , 14, 19023-56	41
1100	The evolution of surface charge on graphene oxide during the reduction and its application in electroanalysis. <b>2014</b> , 66, 302-311	100
1099	A review on production, storage of hydrogen and its utilization as an energy resource. <b>2014</b> , 20, 1148-1156	430
1098	Graphene via sonication assisted liquid-phase exfoliation. <b>2014</b> , 43, 381-98	837

1097	Simultaneous synthesis and patterning of graphene electrodes by reactive inkjet printing. <b>2014</b> , 66, 172-177	31
1096	Effects of substituent groups on methane adsorption in covalent organic frameworks. <b>2014</b> , 4, 15542	9
1095	Energy storage applications of activated carbons: supercapacitors and hydrogen storage. <b>2014</b> , 7, 1250-1280	987
1094	On the road towards electroactive covalent organic frameworks. <b>2014</b> , 50, 5531-46	212
1093	Metal-organic framework composites. <b>2014</b> , 43, 5468-512	1539
1092	Synthesis, crystal structure and water-induced reversible crystal-to-amorphous transformation property of [Co2(2,4-pydc)2(bpa)(H2O)6](H2O)2. <b>2014</b> , 40, 59-61	14
1091	The template role of caffeine in its one-step encapsulation in MOF NH-MIL-88B(Fe). <b>2014</b> , 2, 1144-1151	45
1090	Photoresponsive porous materials: the design and synthesis of photochromic diarylethene-based linkers and a metal-organic framework. <b>2014</b> , 50, 2653-6	66
1089	A new metal-organic framework with ultra-high surface area. <b>2014</b> , 50, 3450-2	130
1088	Nickel-catalyzed oxidative coupling of alkynes and arylboronic acids using the metalâBrganic framework Ni2(BDC)2(DABCO) as an efficient heterogeneous catalyst. <b>2014</b> , 4, 1276-1285	32
1087	Energy and charge transfer by donorâdcceptor pairs confined in a metalâdrganic framework: a spectroscopic and computational investigation. <b>2014</b> , 2, 3389-3398	79
1086	A peculiar mechanism for the photocatalytic reduction of decabromodiphenyl ether over reduced graphene oxideâTiO2 photocatalyst. <b>2014</b> , 241, 207-215	50
1085	Hydrothermal synthesis, structure, and porosity studies of coordination polymer [Na2(H2O)8Cu(pydc)2] n. <b>2014</b> , 145, 447-455	2
1084	Multiscale study on hydrogen storage based on covalent organic frameworks. <b>2014</b> , 25, 503-513	5
1083	Ligand-free direct C-arylation of heterocycles with aryl halides over a metal-organic framework Cu2(BPDC)2(BPY) as an efficient and robust heterogeneous catalyst. <b>2014</b> , 391, 74-82	29
1082	[M3(B-O)(O2CR)6] and related trigonal prisms: versatile molecular building blocks for crystal engineering of metalâBrganic material platforms. <b>2014</b> , 5, 1269-1282	114
1081	Development of dual layer of ZIF-8/PEBAX-2533 mixed matrix membrane for CO2 capture. <b>2014</b> , 459, 244-255	238
1080	Gas separation properties of ZIF-8/6FDA-durene diamine mixed matrix membrane. <b>2014</b> , 128, 31-38	91

1079	Redox-active porous coordination polymers prepared by trinuclear heterometallic pivalate linking with the redox-active nickel(II) complex: synthesis, structure, magnetic and redox properties, and electrocatalytic activity in organic compound dehalogenation in heterogeneous medium. <b>2014</b> , 53, 4970-9	20
1078	A new lead(II) nanoporous three-dimensional coordination polymer: pore size effect on iodine adsorption affinity. <b>2014</b> , 16, 4955-4958	20
1077	The organic ligands with mixed N-/O-donors used in construction of functional metalâBrganic frameworks. <b>2014</b> , 16, 3247	114
1076	Metal-organic frameworks in chromatography. <b>2014</b> , 1348, 1-16	87
1075	High methane storage capacity in aluminum metal-organic frameworks. <b>2014</b> , 136, 5271-4	349
1074	Reply to the 'Comment on "Volume shrinkage of a metal-organic framework host induced by the dispersive attraction of guest gas molecules"' by FX. Coudert, A. H. Fuchs, and A. V. Neimark, Phys. Chem. Chem. Phys. <b>2014</b> , 16, 4396-8	
1073	Postsynthetic modification of IRMOF-3 with a copper iminopyridine complex as heterogeneous catalyst for the synthesis of 2-aminobenzothiazoles. <b>2014</b> , 28, 198-203	19
1072	Hydrogen Sorption Efficiency of Titanium-Functionalized Mgâ <b>B</b> N Framework. <b>2014</b> , 118, 10859-10866	27
1071	A highly porous NbO type metal-organic framework constructed from an expanded tetracarboxylate. <b>2014</b> , 50, 1552-4	42
1070	A review of catalysts for the electroreduction of carbon dioxide to produce low-carbon fuels. <b>2014</b> , 43, 631-75	1890
		1890 396
	Preparation and characterization of CdS and PhS quantum dots in zeolite V and their applications	
1069	Porous inorganic membranes for CO2 capture: present and prospects. <b>2014</b> , 114, 1413-92  Preparation and characterization of CdS and PbS quantum dots in zeolite Y and their applications for nonlinear optical materials and solar cell. <b>2014</b> , 263-264, 239-256  Topological analysis of metal-organic frameworks with polytopic linkers and/or multiple building.	396
1069	Porous inorganic membranes for CO2 capture: present and prospects. 2014, 114, 1413-92  Preparation and characterization of CdS and PbS quantum dots in zeolite Y and their applications for nonlinear optical materials and solar cell. 2014, 263-264, 239-256  Topological analysis of metal-organic frameworks with polytopic linkers and/or multiple building units and the minimal transitivity principle. 2014, 114, 1343-70	396 46
1069 1068 1067	Porous inorganic membranes for CO2 capture: present and prospects. 2014, 114, 1413-92  Preparation and characterization of CdS and PbS quantum dots in zeolite Y and their applications for nonlinear optical materials and solar cell. 2014, 263-264, 239-256  Topological analysis of metal-organic frameworks with polytopic linkers and/or multiple building units and the minimal transitivity principle. 2014, 114, 1343-70  Molecular Engineering of Functional Inorganic and Hybrid Materials. 2014, 26, 221-238	396 46 894
1069 1068 1067 1066	Porous inorganic membranes for CO2 capture: present and prospects. 2014, 114, 1413-92  Preparation and characterization of CdS and PbS quantum dots in zeolite Y and their applications for nonlinear optical materials and solar cell. 2014, 263-264, 239-256  Topological analysis of metal-organic frameworks with polytopic linkers and/or multiple building units and the minimal transitivity principle. 2014, 114, 1343-70  Molecular Engineering of Functional Inorganic and Hybrid Materials. 2014, 26, 221-238	396 46 894
1069 1068 1067 1066 1065	Porous inorganic membranes for CO2 capture: present and prospects. 2014, 114, 1413-92  Preparation and characterization of CdS and PbS quantum dots in zeolite Y and their applications for nonlinear optical materials and solar cell. 2014, 263-264, 239-256  Topological analysis of metal-organic frameworks with polytopic linkers and/or multiple building units and the minimal transitivity principle. 2014, 114, 1343-70  Molecular Engineering of Functional Inorganic and Hybrid Materials. 2014, 26, 221-238  Microstructural study of the formation mechanism of metalâBrganic framework MOF-5. 2014, 16, 1064-1070	396 46 894 127 38

1061	A 2D metalåbrganic framework based on dizinc coordination units bridged through both flexible and rigid ligands. <b>2014</b> , 1060, 94-101	19
1060	Low-frequency Raman study of the ferroelectric phase transition in a layered CuCl4-based organic-inorganic hybrid. <b>2014</b> , 89,	21
1059	Towards applications of metalâBrganic frameworks in catalysis: Câ⊞ direct activation of benzoxazole with aryl boronic acids using Ni2(BDC)2(DABCO) as an efficient heterogeneous catalyst. <b>2014</b> , 4, 369-377	50
1058	Exceptional gravimetric and volumetric hydrogen storage for densified zeolite templated carbons with high mechanical stability. <b>2014</b> , 7, 427-434	54
1057	An eight-connected porous metalâBrganic framework based on hetero pentanuclear clusters. <b>2014</b> , 16, 47-50	15
1056	Room Temperature Synthesis and Characterization of a Zn (II) based Metal- organic Framework with Mixed Ligands, 1, 4- Benzenedicarboxylic Acid and 1-methyle Imidazole. <b>2014</b> , 5, 1258-1265	8
1055	Graphene-based composite with microwave absorption property prepared by in situ reduction. <b>2014</b> , 35, 461-467	13
1054	Synthesis, Characterization and Photoluminescence of Lanthanide Metal-organic Frameworks, Constructed from Triangular 4,4?,4?-s-triazine-1,3,5-triyl-p-aminobenzoate Ligands. <b>2014</b> , 61, 1115-1120	10
1053	Correlation of Mesh Size of Metalâ©arboxylate Layer with Degree of Interpenetration in Pillared-Layer Frameworks. <b>2014</b> , 14, 5608-5616	19
1052	CHAPTER 5:Nanotubes for Energy Storage. <b>2014</b> , 121-198	
1052	CHAPTER 5:Nanotubes for Energy Storage. <b>2014</b> , 121-198  Preparation and characterization of nanocomposites of poly-p-phenylene benzobisthiazole with graphene nanosheets. <b>2014</b> , 4, 8856	17
	Preparation and characterization of nanocomposites of poly-p-phenylene benzobisthiazole with graphene nanosheets. <b>2014</b> , 4, 8856  Ultimate H2 and CH4 adsorption in slit-like carbon nanopores at 298 K: a molecular dynamics study.	17
1051	Preparation and characterization of nanocomposites of poly-p-phenylene benzobisthiazole with graphene nanosheets. <b>2014</b> , 4, 8856  Ultimate H2 and CH4 adsorption in slit-like carbon nanopores at 298 K: a molecular dynamics study. <b>2014</b> , 4, 22848-22855  The photoluminescence and gas sorption properties of three Cd(II) MOFs based on	
1051	Preparation and characterization of nanocomposites of poly-p-phenylene benzobisthiazole with graphene nanosheets. <b>2014</b> , 4, 8856  Ultimate H2 and CH4 adsorption in slit-like carbon nanopores at 298 K: a molecular dynamics study. <b>2014</b> , 4, 22848-22855  The photoluminescence and gas sorption properties of three Cd(II) MOFs based on	12
1051	Preparation and characterization of nanocomposites of poly-p-phenylene benzobisthiazole with graphene nanosheets. <b>2014</b> , 4, 8856  Ultimate H2 and CH4 adsorption in slit-like carbon nanopores at 298 K: a molecular dynamics study. <b>2014</b> , 4, 22848-22855  The photoluminescence and gas sorption properties of three Cd(II) MOFs based on 1,3,5-benzenetribenzoate with -NH2 or -OH groups. <b>2014</b> , 43, 4668-73	12
1051 1050 1049 1048	Preparation and characterization of nanocomposites of poly-p-phenylene benzobisthiazole with graphene nanosheets. 2014, 4, 8856  Ultimate H2 and CH4 adsorption in slit-like carbon nanopores at 298 K: a molecular dynamics study. 2014, 4, 22848-22855  The photoluminescence and gas sorption properties of three Cd(II) MOFs based on 1,3,5-benzenetribenzoate with -NH2 or -OH groups. 2014, 43, 4668-73  Proton dynamics of two-dimensional oxalate-bridged coordination polymers. 2014, 16, 17295-304  Reduced graphene oxide derived from used cell graphite and its green fabrication as an	12 41 32
1051 1050 1049 1048	Preparation and characterization of nanocomposites of poly-p-phenylene benzobisthiazole with graphene nanosheets. 2014, 4, 8856  Ultimate H2 and CH4 adsorption in slit-like carbon nanopores at 298 K: a molecular dynamics study. 2014, 4, 22848-22855  The photoluminescence and gas sorption properties of three Cd(II) MOFs based on 1,3,5-benzenetribenzoate with -NH2 or -OH groups. 2014, 43, 4668-73  Proton dynamics of two-dimensional oxalate-bridged coordination polymers. 2014, 16, 17295-304  Reduced graphene oxide derived from used cell graphite and its green fabrication as an eco-friendly supercapacitor. 2014, 4, 60039-60051  Four new metalâBrganic frameworks based on a rigid linear ligand: synthesis, optical properties and	12 41 32 15

1043	Syntheses, structures, and photoluminescent properties of a series of metalåBrganic frameworks constructed by 5,5?-bis(1H-imidazol-1-yl)-2,2?-bithiophene and various carboxylate ligands. <b>2014</b> , 16, 900-909	21
1042	Homochiral metal-organic frameworks and their application in chromatography enantioseparations. <b>2014</b> , 1363, 11-26	67
1041	Isoreticular MOFs based on a rhombic dodecahedral MOP as a tertiary building unit. <b>2014</b> , 16, 6391-6397	10
1040	New porous coordination polymers based on expanded pyridyl-dicarboxylate ligands and a paddle-wheel cluster. <b>2014</b> , 16, 6325-6330	24
1039	Six new coordination polymers based on a tritopic pyridyldicarboxylate ligand: structural, magnetic and sorption properties. <b>2014</b> , 16, 7790-7801	9
1038	A facile one-step hydrothermal synthesis of a B-doped graphene/rod-shaped TiO2 nanocomposite. <b>2014</b> , 4, 37992	11
1037	Tuning the dimension of POM-based inorganicaBrganic hybrids from 3D self-penetrating framework to 1D poly-pendant chain via changing POM clusters and introducing secondary spacers. <b>2014</b> , 16, 2045-2055	30
1036	Novel alkali and alkaline earth metal coordination polymers based on 1,4-naphthalenedicarboxylic acid: synthesis, structural characterization and properties. <b>2014</b> , 16, 1985	33
1035	A copper based metal-organic framework as single source for the synthesis of electrode materials for high-performance supercapacitors and glucose sensing applications. <b>2014</b> , 39, 19609-19620	73
1034	A dynamic study of the structural change in the binary network in response to guest inclusion. <b>2014</b> , 16, 8778-82	22
1033	Homogeneous decoration of zeolitic imidazolate framework-8 (ZIF-8) with coreâlhell structures on carbon nanotubes. <b>2014</b> , 4, 49614-49619	36
1032	A NbO type microporous metalâBrganic framework constructed from a naphthalene derived ligand for CH4 and C2H2 storage at room temperature. <b>2014</b> , 4, 49457-49461	23
1031	Polypropyleneagraphene ala nanocomposite that can be converted into a meta-material at desired frequencies. <b>2014</b> , 4, 44888-44895	25
1030	A guest-dependent thermochromic feature in a metalâBrganic framework and its thin film on different supports. <b>2014</b> , 2, 13698-13704	25
1029	Functional Networks of Organic and Coordination Polymers: Catalysis of Fructose Conversion. <b>2014</b> , 26, 6257-6264	51
1028	Controllable synthesis of isoreticular pillared-layer MOFs: gas adsorption, iodine sorption and sensing small molecules. <b>2014</b> , 2, 14827-14834	79
1027	Exceptional CO2 adsorbing materials under different conditions. <b>2014</b> , 14, 1134-48	22
1026	Synthesis and Characterization of Two Pb(II) Complexes of 2,2?-dihydroxy, Dimethoxy-1,1?-binaphthyl-3,3?-dicarboxylic Acid. <b>2014</b> , 593, 187-200	2

21025 ZIF-8 micromembranes for gas separation prepared on laser-perforated brass supports. **2014**, 2, 11177-11184 18

1024	A novel Cu12(pz)12 loop-based coordination polymer templated by double-Keggin anions. <b>2014</b> , 38, 4963-4969	11
1023	MetalâBrganic frameworks with improved moisture stability based on a phosphonate monoester: effect of auxiliary N-donor ligands on framework dimensionality. <b>2014</b> , 16, 6635-6644	35
1022	Propargylamine synthesis via sequential methylation and Câ⊞ functionalization of N -methylanilines and terminal alkynes under metalâBrganic framework Cu 2 (BDC) 2 (DABCO) catalysis. <b>2014</b> , 319, 258-264	36
1021	Multifunctional metal-organic frameworks constructed from meta-benzenedicarboxylate units. <b>2014</b> , 43, 5618-56	431
1020	Construction of two interpenetrating coordination networks based on 4,4?-bis(1H-imidazol-1-yl-methyl)biphenyl and effect of carboxylic acids. <b>2014</b> , 67, 588-596	12
1019	Design of Superhydrophobic Porous Coordination Polymers through the Introduction of External Surface Corrugation by the Use of an Aromatic Hydrocarbon Building Unit. <b>2014</b> , 126, 8364-8369	32
1018	Syntheses, structures and guest-adsorption properties of Ag(I) coordination polymers with 1,4-dicyanobenzene. <b>2014</b> , 423, 340-347	6
1017	Synthesis of two triarylboron-functionalized metal-organic frameworks: in situ decarboxylic reaction, structure, photoluminescence, and gas adsorption properties. <b>2014</b> , 53, 11206-12	27
1016	Nanocomposite of europium organic framework and quantum dots for highly sensitive chemosensing of trinitrotoluene. <b>2014</b> , 242, 88-93	26
1015	Cascade reactions catalyzed by metal organic frameworks. <b>2014</b> , 7, 2392-410	137
1014	Melaleuca bark based porous carbons for hydrogen storage. <b>2014</b> , 39, 11661-11667	37
1013	Design of superhydrophobic porous coordination polymers through the introduction of external surface corrugation by the use of an aromatic hydrocarbon building unit. <b>2014</b> , 53, 8225-30	96
1012	Perspective of microporous metalâBrganic frameworks for CO2 capture and separation. <b>2014</b> , 7, 2868	616
1011	Methane storage in metal-organic frameworks. <b>2014</b> , 43, 5657-78	1246
1010	Tuning the reactivity of Ru nanoparticles by defect engineering of the reduced graphene oxide support. <b>2014</b> , 4, 22230-22240	20
1009	A facile synthesis of multi metal-doped rectangular ZnO nanocrystals using a nanocrystalline metal-organic framework template. <b>2014</b> , 6, 10995-1001	10
1008	Isoreticular Investigation into the Formation of Four New Zinc Alkylbisphosphonate Families. <b>2014</b> , 14, 3612-3622	7

1007	Construction of Zn(II) microporous metalâBrganic frameworks based on 1,1?-ethynebenzene-3,3?,5,5?-tetracarboxylate. <b>2014</b> , 47, 102-107	6
1006	Can Metalâ'Drganic Frameworks Attain New DOE Targets for On-Board Methane Storage by Increasing Methane Heat of Adsorption?. <b>2014</b> , 118, 19833-19841	30
1005	Monomolecular sheets of propeller-shaped triethyl 4,4',4''-[benzene-1,3,5-triyltris(ethyne-2,1-diyl)]tribenzoate deuterochloroform monosolvate. <b>2014</b> , 70, 937-40	
1004	Study of fuchsine adsorption on magnetic chitosan/graphene oxide. <b>2014</b> , 4, 24679	18
1003	A systematic study on the stability of porous coordination polymers against ammonia. <b>2014</b> , 20, 15611-7	53
1002	Photocatalytic metal-organic framework from CdS quantum dot incubated luminescent metallohydrogel. <b>2014</b> , 136, 14845-51	231
1001	Assembly of Six Polyoxometalate-Based Hybrid Compounds from a Simple Supramolecule to a Complicated Pseudorotaxane Framework via Tuning the pH of the Reaction Systems. <b>2014</b> , 14, 4450-4460	68
1000	Effect of functionalized groups on gas-adsorption properties: syntheses of functionalized microporous metal-organic frameworks and their high gas-storage capacity. <b>2014</b> , 20, 1341-8	42
999	Propargylamine synthesis via direct oxidative CC coupling reaction between N,N-dimethylanilines and terminal alkynes under metalâBrganic framework catalysis. <b>2014</b> , 395, 300-306	32
998	Discrete metal-carboxylate self-assembled cages: Design, synthesis and applications. <b>2014</b> , 280, 1-27	137
997	A topological twist on materials science. <b>2014</b> , 39, 265-279	31
996	Syntheses, X-ray structures, catalytic activity and magnetic properties of two new coordination polymers of Co(II) and Ni(II) based on benzenedicarboxylate and linear N,N?-donor Schiff base linkers. <b>2014</b> , 1, 414-425	34
995	Exploiting Weak Noncovalent Cation Interaction for Designing a Molecular Container for Storage of Methane Molecules with Lithiated Carbene Superbases. <b>2014</b> , 118, 6680-6689	11
994	Modified Carbon Materials for O2 Reduction Reaction Electrocatalysts in Acid PEM Fuel Cells. <b>2014</b> , 119-156	3
993	Exploring the structural diversities and magnetic properties of copper(II) and manganese(II) complexes based on 5-methoxyisophthalate and flexible bis(imidazole) ligands. <b>2014</b> , 16, 870-882	63
992	The first 3D POMOF based on Emetatungstate and mixed-ligand. <b>2014</b> , 44, 15-19	11
991	Supercapacitors of nanocrystalline metal-organic frameworks. <b>2014</b> , 8, 7451-7	540
990	Layer-by-layer deposition and photovoltaic property of Ru-based metalâBrganic frameworks. <b>2014</b> , 4, 12037	51

989	Influence of temperature and voltage on electrochemical reduction of graphene oxide. <b>2014</b> , 37, 629-634	7
988	One-pot, one-step, catalytic synthesis of 2,5-diformylfuran from fructose. <b>2014</b> , 88, 1091-1096	13
987	Metal oxide-coated three-dimensional graphene prepared by the use of metal-organic frameworks as precursors. <b>2014</b> , 53, 1404-9	255
986	Construction and Characterization of Structure Models of Crystalline Porous Polymers. <b>2014</b> , 14, 2431-2440	62
985	Synthesis and characterization of conductive copper-based metal-organic framework/graphene-like composites. <b>2014</b> , 147, 744-750	39
984	Fabrication of MOFs/PEBA mixed matrix membranes and their application in bio-butanol production. <b>2014</b> , 133, 40-47	58
983	Crystal Structures and Spectroscopic Properties of MetalâDrganic Frameworks Based on Rigid Ligands with Flexible Functional Groups. <b>2014</b> , 14, 491-499	57
982	Stability and hydrogen adsorption of metalâBrganic frameworks prepared via different catalyst doping methods. <b>2014</b> , 318, 128-142	26
981	Evaluation of Fe3O4@SiO2âMOF-177 as an advantageous adsorbent for magnetic solid-phase extraction of phenols in environmental water samples. <b>2014</b> , 6, 7842-7847	44
980	Synthesis, Crystal Structure, and Luminescence of Zn/Cd Coordination Polymers with a New Fuctionalized Terpyridyl Carboxylate Ligand. <b>2014</b> , 14, 1629-1641	78
979	Microwave-assisted hydrothermal synthesis of Au NPsâ©raphene composites for H2O2 detection. <b>2014</b> , 731, 36-42	20
978	Guest exchange through single crystal-single crystal transformations in a flexible hydrogen-bonded framework. <b>2014</b> , 136, 14200-6	74
977	Preparation of polylactide/graphene composites from liquid-phase exfoliated graphite sheets. <b>2014</b> , 35, 396-403	53
976	Encapsulation of Various Guests by an Anionic In-MetalâDrganic Framework Containing Tritopic BTB Ligand: Crystal Structure of Reichardtâ日 Dye Captured in an In-MetalâDrganic Framework. <b>2014</b> , 14, 5026-5033	20
975	Porous zirconium metal-organic framework constructed from 2D -BD interpenetration based on a 3,6-connected kgd net. <b>2014</b> , 53, 7086-8	103
974	Solid phase microextraction (SPME) combined with TGA as a technique for guest analysis in crystal engineering. <b>2014</b> , 16, 7313-7319	3
973	Adsorption Refrigeration Performance of Shaped MIL-101-Water Working Pair. <b>2014</b> , 22, 570-575	19
972	Synthesis and characterization of graphene: influence of synthesis variables. <b>2014</b> , 16, 2962-70	36

971	Rapid Synthesis of Cobalt Metal Organic Framework. <b>2014</b> , 24, 786-790	21
970	Dinuclear copper(II) complexes bridged by imidazole-4,5-dicarboxylate. <b>2014</b> , 43, 35-38	17
969	Microporous structures having phenylene fin: Significance of substituent groups for rotational linkers in coordination polymers. <b>2014</b> , 189, 83-90	7
968	Photoelectrocatalytic reduction of CO2 into chemicals using Pt-modified reduced graphene oxide combined with Pt-modified TiO2 nanotubes. <b>2014</b> , 48, 7076-84	117
967	Tuning the structure and function of metal-organic frameworks via linker design. <b>2014</b> , 43, 5561-93	1441
966	Anion-Controlled Dielectric Behavior of Homochiral Tryptophan-Based MetalâDrganic Frameworks. <b>2014</b> , 14, 1572-1579	46
965	Size- and shape-controlled synthesis of hexagonal bipyramidal crystals and hollow self-assembled Al-MOF spheres. <b>2014</b> , 7, 529-35	30
964	A triazine functionalized porous organic polymer: excellent CO2 storage material and support for designing Pd nanocatalyst for Câlī cross-coupling reactions. <b>2014</b> , 2, 11642	120
963	Syntheses, Structures, and Second-Order Nonlinear Optical Properties of Chiral Zinc(II) Coordination Polymers Based on (R)-4-(4-(1-Carboxyethoxy)phenoxy)-3-fluorobenzoic Acid and Effect of the Second Ligand with Imidazole Group. <b>2014</b> , 14, 3309-3318	27
962	Synthesis, crystal structures and luminescent properties of zinc(II) metalâBrganic frameworks constructed from terpyridyl derivative ligand. <b>2014</b> , 216, 13-22	10
961	Adsorption of carbon dioxide, methane and nitrogen on an ultramicroporous copper metal-organic framework. <b>2014</b> , 430, 78-84	56
960	In situ synthesis of zeolitic imidazolate frameworks/carbon nanotube composites with enhanced COâladsorption. <b>2014</b> , 43, 7028-36	87
959	Influence of ligand environments on the structures and luminescence properties of homoleptic cadmium(II) pyridyl functionalized dithiocarbamates. <b>2014</b> , 16, 6765	31
958	Two new 3-D Cd(II) metalâBrganic frameworks based on flexible cyclohexane-1,2,4,5-tetracarboxylic acid ligand. <b>2014</b> , 421, 38-44	5
957	Design, Synthesis, and X-Ray Crystal Structure of a Fullerene-Linked MetalâØrganic Framework. <b>2014</b> , 126, 164-167	7
956	MOF-177/graphene composite as a selective sensor for nitro aromatic compounds. <b>2015</b> , 1794, 1-7	
955	Large area preparation of multilayered graphene films by chemical vapour deposition with high electrocatalytic activity toward hydrogen peroxide. <b>2015</b> , 30, 121-126	7
954	Materials for Hydrogen Storage. <b>2015</b> , 1-19	1

953	Synthesis and Application of a Novel Functionalized Magnetic MetalâDrganic Framework Sorbent for Determination of Heavy Metal Ions in Fish Samples. <b>2015</b> , 88, 871-879	13
952	Stable Heterometallic Cull-Ball-2,5-Thiophenedicarboxylate Framework with High Capacity for Light Hydrocarbons. <b>2015</b> , 641, 1307-1310	2
951	Azide Chemistry â[An Inorganic Perspective, Part II[â][[3+2]-Cycloaddition Reactions of Metal Azides and Related Systems. <b>2015</b> , 641, 1599-1678	58
950	â⊞eterogenitEinnerhalb von Ordnungâ⊡n Metall-organischen GerEten. <b>2015</b> , 127, 3480-3494	67
949	Understanding Small-Molecule Interactions in Metal-Organic Frameworks: Coupling Experiment with Theory. <b>2015</b> , 27, 5785-96	30
948	High-throughput and comprehensive prediction of H2 adsorption in metal-organic frameworks under various conditions. <b>2015</b> , 61, 2951-2957	24
947	Preparation and Characterization of Graphene. <b>2015</b> , 26, 02002	2
946	Hydrothermal Assembly of Two New 3D Zinc(II) pcu Nets: Coordination Chemistry, Crystal Structures, and Fluorescence Properties. <b>2015</b> , 641, 699-703	8
945	The Effects of Alkaline-Earth Counterions on the Architectures, Band-Gap Energies, and Proton Transfer of Triazole-Based Coordination Polymers. <b>2015</b> , 2015, 2085-2091	7
944	Gas Sorption Properties of Isostructural Co-MOFs Containing Dipyridylporphyrin Linkers with Different Substituents at the 10,20-meso-Positions. <b>2015</b> , 2015, 2989-2995	6
943	Syntheses and Crystal Structures of Three Metal-Organic Frameworks Constructed from a C3-Symmetrical Tricarboxylic Acid. <b>2015</b> , 641, 1571-1574	
942	An Overview of Detection and Neutralization of Chemical Warfare Agents Using Metal Organic Frameworks. <b>2015</b> , 06,	1
941	Reinforcement of Polyethylene Terephthalate via Addition of Carbon-Based Materials. 2015, 41-64	2
940	Graphene Oxide Synthesis from Agro Waste. <b>2015</b> , 5, 826-834	108
939	Graphene Hybrid Materials in Gas Sensing Applications. <b>2015</b> , 15, 30504-24	89
938	Crystal structure of poly[½-2,6-dimethyl-pyridine-3,5-dicarboxylate- ២០,Oâ៊េDâ៊េDâ៊េកិចិត្រិបិតិពិធីប្រិតិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិធីប្រិតិពិធីប្រិតិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិពិធីប្រិតិប្រិតិប្រិតិប្រិតិបិធីបិបិធីបិធីប្រិតិបិធីប្រិតិបិធីប្រិតិបិធីប្រិចិប្រិតិបិធីបិធីប្រិតិបិធីប្រិតិបិធីប្រិតិបិធីប្រិតិបិធីប្រិតិបិធីប្រិតិបិធីប្រិតិបិធីប្រិតិបិធីប្រិតិបិធីប្រិតិបិធីប្រិតិបិធីបិសិសិតបិធីប្រិតិបិធីបិសិតបិសិតបិខិធីបិសិតបិខិសិតបិខិធីបិខិធីបិខិសិតបិខិធិបិខិធីបិខិខិធីបិខិធិបិខិធីបិខិខិធីបិខិធិបិខិធីបិខិធិបិខិធីបិខិខិធីបិខិខិខិធីបិខិខិខិខិធីបិខិខិខិធីបិខិខិខិខិខិខិខិខិខិខិខិខិខិខិខិខិខិខិខ	2
937	Structural modification in bimetallic Ru(III)â©o(II) metalâ®rganic frameworks. <b>2015</b> , 17, 1005-1009	5
936	A family of uranyl-aromatic dicarboxylate (pht-, ipa-, tpa-) framework hybrid materials: photoluminescence, surface photovoltage and dye adsorption. <b>2015</b> , 44, 11562-71	25

# (2015-2015)

935	Synthesis of reduced graphene oxide-montmorillonite nanocomposite and its application in hexavalent chromium removal from aqueous solutions. <b>2015</b> , 5, 47408-47417	40
934	Zeolitic imidazolate framework membranes for gas separation: A review of synthesis methods and gas separation performance. <b>2015</b> , 28, 1-15	102
933	Manufacturing of metal-organic framework monoliths and their application in CO 2 adsorption. <b>2015</b> , 214, 149-155	74
932	Sponge-Like Behaviour in Isoreticular Cu(Gly-His-X) Peptide-Based Porous Materials. <b>2015</b> , 21, 16027-34	25
931	Diverse Rotational Flexibility of Substituted Dicarboxylate Ligands in Functional Porous Coordination Polymers. <b>2015</b> , 119, 28789-28799	26
930	Hierarchical Metal-Organic Framework Hybrids: Perturbation-Assisted Nanofusion Synthesis. <b>2015</b> , 48, 3044-52	84
929	Simultaneous reduction and nitrogen doping of graphite oxide by using electron beam irradiation. <b>2015</b> , 5, 104502-104508	17
928	Remarkable Lattice Shrinkage in Highly Oriented Crystalline Three-Dimensional Metal-Organic Framework Thin Films. <b>2015</b> , 54, 11593-5	26
927	Steering Metallofullerene Electron Spin in Porous Metal-Organic Framework. <b>2015</b> , 137, 15055-60	47
926	Electronic and magnetic properties of DUT-8(Ni). <b>2015</b> , 17, 17122-9	24
925	Study of Di- and Polyamines as Activators in the Hot Potash Process for CO2 Capture. <b>2015</b> , 68, 1042	O
924	Understanding the Enhanced Catalytic Performance of Ultrafine Transition Metal Nanoparticlesâ©raphene Composites. <b>2015</b> , 03, 1540002	2
923	A polydopamine layer as the nucleation center of MOF deposition on "inert" polymer surfaces to fabricate hierarchically structured porous films. <b>2015</b> , 51, 2706-9	54
922	Annulation of phenols with methylbutenol over MOFs: The role of catalyst structure and acid strength in producing 2,2-dimethylbenzopyran derivatives. <b>2015</b> , 202, 297-302	9
921	Porous solids arising from synergistic and competing modes of assembly: combining coordination chemistry and covalent bond formation. <b>2015</b> , 54, 3983-7	28
920	Syntheses, Characterizations, Luminescent Properties, and Controlling Interpenetration of Five MetalâDrganic Frameworks Based on Bis(4-(pyridine-4-yl)phenyl)amine. <b>2015</b> , 15, 1303-1310	29
919	Introduction of functionality, selection of topology, and enhancement of gas adsorption in multivariate metal-organic framework-177. <b>2015</b> , 137, 2641-50	285
918	One-pot synthesis of hydrazono-sulfonamide adducts using Cu(BTC) MOF catalyst and their remarkable AIEE properties: unprecedented copper(II)-catalyzed generation of ketenimine. <b>2015</b> , 5, 20003-20	00170

917	Mimic of the green fluorescent protein Ebarrel: photophysics and dynamics of confined chromophores defined by a rigid porous scaffold. <b>2015</b> , 137, 2223-6	68
916	Water adsorption in metalâBrganic frameworks with open-metal sites. <b>2015</b> , 61, 677-687	34
915	In situ cobalt-cobalt oxide/N-doped carbon hybrids as superior bifunctional electrocatalysts for hydrogen and oxygen evolution. <b>2015</b> , 137, 2688-94	1328
914	A new mesoporous coordination polymer: synthesis, structure, and gas adsorption studies. <b>2015</b> , 17, 2087-2090	8
913	Polymer composites and blends for battery separators: State of the art, challenges and future trends. <b>2015</b> , 281, 378-398	185
912	Adsorption of nitric oxide in metal-organic frameworks: Low temperature IR and EPR spectroscopic evaluation of the role of open metal sites. <b>2015</b> , 216, 97-110	24
911	Determination of mercury(II) ions in seafood samples after extraction and preconcentration by a novel functionalized magnetic metal-organic framework nanocomposite. <b>2015</b> , 38, 1179-86	26
910	Robust metalâBrganic framework with [Mn3] clusters: Synthesis, structure and magnetic property. <b>2015</b> , 53, 76-79	3
909	High Surface Iron/Cobalt-Containing Nitrogen-Doped Carbon Aerogels as Non-Precious Advanced Electrocatalysts for Oxygen Reduction. <b>2015</b> , 2, 584-591	56
908	Determination of heavy metal ions in vegetable samples using a magnetic metal-organic framework nanocomposite sorbent. <b>2015</b> , 32, 725-36	8
907	Solid phase extraction of heavy metal ions from agricultural samples with the aid of a novel functionalized magnetic metalâBrganic framework. <b>2015</b> , 5, 19884-19892	93
906	Simple preparation of crystal Co3(BTC)2[12H2O and its catalytic activity in CO oxidation reaction. <b>2015</b> , 30, 71-75	14
905	A robust microporous metal-organic framework as a highly selective and sensitive, instantaneous and colorimetric sensor for Eu‡+ ions. <b>2015</b> , 44, 1845-9	32
904	Synthesis, characterization and crystal structure determination of Mn (II) ion based 1D polymer constructed from 2, 2? bipyridyl and azide group, its thermal stability, magnetic properties and Hirshfeld surface analysis. <b>2015</b> , 225, 249-255	12
903	Facile synthesis of amino-functionalized titanium metal-organic frameworks and their superior visible-light photocatalytic activity for Cr(VI) reduction. <b>2015</b> , 286, 187-94	478
902	A new 3D Cd(II) metalâBrganic framework with discrete (H2O)6 clusters based on flexible cyclohexane-1,2,4,5-tetracarboxylic acid ligand. <b>2015</b> , 53, 11-14	19
901	Lanthanide Metal-Organic Frameworks. <b>2015</b> ,	20
900	"Heterogeneity within order" in metal-organic frameworks. <b>2015</b> , 54, 3417-30	390

# (2015-2015)

899	Stable metal-organic frameworks containing single-molecule traps for enzyme encapsulation. <b>2015</b> , 6, 5979	422
898	Predesign and systematic synthesis of 11 highly porous coordination polymers with unprecedented topology. <b>2015</b> , 54, 1645-9	17
897	Membrane gas separation technologies for biogas upgrading. <b>2015</b> , 5, 24399-24448	228
896	Highly enhanced and weakened adsorption properties of two MOFs by water vapor for separation of CO2/CH4 and CO2/N2 binary mixtures. <b>2015</b> , 270, 385-392	77
895	Study of the temperature and solvent content effects on the structure of CuâBTC metal organic framework for hydrogen storage. <b>2015</b> , 5, 24758-24768	51
894	Bifunctionalized Metal Organic Frameworks, UiO-66-NO2-N (N = -NH2, -(OH)2, -(COOH)2), for Enhanced Adsorption and Selectivity of CO2 and N2. <b>2015</b> , 60, 2152-2161	49
893	Enhanced flux of polydimethylsiloxane membrane for ethanol permselective pervaporation via incorporation of MIL-53 particles. <b>2015</b> , 492, 322-330	77
892	A non-regular layer arrangement of a pillared-layer coordination polymer: avoiding interpenetration via symmetry breaking at nodes. <b>2015</b> , 51, 13611-4	9
891	Quasi Core/Shell Lead Sulfide/Graphene Quantum Dots for Bulk Heterojunction Solar Cells. <b>2015</b> , 119, 18886-18895	45
890	Facile preparation of poly(p-phenylene benzobisoxazole)/graphene composite films via one-pot in situ polymerization. <b>2015</b> , 71, 8-14	28
889	Isolation of a structural intermediate during switching of degree of interpenetration in a metal-organic framework. <b>2015</b> , 6, 4986-4992	45
888	Bioinspired engineering of honeycomb structure âl Using nature to inspire human innovation. <b>2015</b> , 74, 332-400	315
887	A porous metalâBrganic framework formed by a V-shaped ligand and Zn(II) ion with highly selective sensing for nitroaromatic explosives. <b>2015</b> , 3, 16598-16603	133
886	LnIII ion dependent magnetism in heterometallic Cuâlin complexes based on an azido group and 1,2,3-triazole-4,5-dicarboxylate as co-ligands. <b>2015</b> , 5, 62319-62324	7
885	Unravelling the photo-excited chlorophyll-a assisted deoxygenation of graphene oxide: formation of a nanohybrid for oxygen reduction. <b>2015</b> , 5, 65487-65495	6
884	Exploration of metal-organic framework MOF-177 coated fibers for headspace solid-phase microextraction of polychlorinated biphenyls and polycyclic aromatic hydrocarbons. <b>2015</b> , 144, 369-74	71
883	The effect of cluster size on the optical band gap energy of Zn-based metal-organic frameworks. <b>2015</b> , 44, 13464-8	4
882	Functional group tolerance in BTB-based metalâBrganic frameworks (BTB â🏻 benzene-1,3,5-tribenzoate). <b>2015</b> , 216, 42-50	5

881	Thickness control of graphene deposited over polycrystalline nickel. <b>2015</b> , 39, 4414-4423	13
880	High Surface Area Tunnels in Hexagonal WOâ□ <b>2015</b> , 15, 4834-8	118
879	Facile synthesis of ultrahigh-surface-area hollow carbon nanospheres for enhanced adsorption and energy storage. <b>2015</b> , 6, 7221	473
878	Double-walled topology networks from a novel fluoride-bridged heptanuclear metal cluster. <b>2015</b> , 6, 4784-4789	33
877	Understanding nano effects in catalysis. <b>2015</b> , 2, 183-201	195
876	Concomitant spin-canted antiferromagnetic ordering and proton conduction in homometallic and homoleptic coordination polymers. <b>2015</b> , 44, 3949-53	7
875	Ultrastable Polymolybdate-Based Metal-Organic Frameworks as Highly Active Electrocatalysts for Hydrogen Generation from Water. <b>2015</b> , 137, 7169-77	469
874	External-Template-Assisted Formation of Octacyanometalate-Based MVâMnII (M = W, Mo) Bimetallic Coordination Polymers with Magnetic Properties. <b>2015</b> , 2015, 2110-2119	7
873	Hydrogen adsorption by perforated graphene. <b>2015</b> , 40, 6594-6599	50
872	Syntheses, structures and luminescent properties of two new two-fold interpenetrating 2D coordination polymers based on 4?-(4-carboxyphenyl)-4,2?:6?,4?-terpyridine. <b>2015</b> , 56, 1-4	12
871	Water-induced reversible SCSC or solid-state structural transformation in coordination polymers. <b>2015</b> , 17, 8776-8785	26
870	Double-layer structure, sorption and magnetism properties of metalåBrganic frameworks with trigonal planar ligand. <b>2015</b> , 55, 65-68	
869	A water-stable lanthanide-organic framework as a recyclable luminescent probe for detecting pollutant phosphorus anions. <b>2015</b> , 51, 10280-3	213
868	Sunlight assisted photodecolorization of malachite green catalyzed by MIL-101/graphene oxide composites. <b>2015</b> , 88, 169-177	10
867	Controlled Synthesis of Phase-Pure Zeolitic Imidazolate Framework Co-ZIF-9. <b>2015</b> , 2015, 1625-1630	24
866	Tuning the topology structures of polymolybdate-based hybrids from interpenetrated framework to interdigitated architecture via changing polymolybdate clusters. <b>2015</b> , 39, 3528-3535	11
865	A novel strategy for producing highly dispersed Pd particles on ZIF-8 through the occupation and unoccupation of carboxyl groups and its application in selective diene hydrogenation. <b>2015</b> , 327, 54-57	17
864	Fluorescence detection of aromatic amines and photocatalytic degradation of rhodamine B under UV light irradiation by luminescent metalâBrganic frameworks. <b>2015</b> , 39, 4437-4444	46

# (2016-2015)

863	Electron Donating Chlorophyll-a on Graphene: A Way toward Tuning Fermi Velocity in an Extended Molecular Framework of Graphene/Chlorophyll-a Nanohybrid. <b>2015</b> , 119, 6939-6946	8
862	Systematic ligand modulation enhances the moisture stability and gas sorption characteristics of quaternary metal-organic frameworks. <b>2015</b> , 137, 3901-9	118
861	Guest-Induced Emergent Properties in Metal-Organic Frameworks. <b>2015</b> , 6, 1182-95	128
860	Synthesis and applications of novel graphitic carbon nitride/metal-organic frameworks mesoporous photocatalyst for dyes removal. <b>2015</b> , 174-175, 445-454	465
859	Strategies to enhance CO2 capture and separation based on engineering absorbent materials. <b>2015</b> , 3, 12118-12132	87
858	Metal organic frameworks for sensing applications. <b>2015</b> , 73, 39-53	319
857	Umbellate distortions of the uranyl coordination environment result in a stable and porous polycatenated framework that can effectively remove cesium from aqueous solutions. <b>2015</b> , 137, 6144-7	318
856	Nanovalved Adsorbents for CH4 Storage. <b>2016</b> , 16, 3309-13	13
855	The role of metalâBrganic frameworks in a carbon-neutral energy cycle. <b>2016</b> , 1,	284
854	Engineering the proton conductivity of metalâBrganic hybrid materials by varying the coordination mode of the ligand. <b>2016</b> , 18, 3300-3305	11
853	A saccharide-based crystalline sponge for hydrophilic guests. <b>2016</b> , 52, 7013-5	37
852	Classical density functional theory for gas separation in nanoporous materials and its application to CH4/H2 separation. <b>2016</b> , 149, 14-21	4
851	A fluorescent sensor for highly selective sensing of nitro explosives and Hg(II) ions based on a 3D porous layer metalâBrganic framework. <b>2016</b> , 18, 4765-4771	27
850	A new POMOF consisting of [VW 12 ] 4âltlusters and metal-organic nanotubes: Synthesis, structure, electrocatalytic and luminescent properties. <b>2016</b> , 69, 57-61	9
849	Mechanism of CO2 adsorption on Mg/DOBDC with elevated CO2 loading. <b>2016</b> , 181, 340-346	20
848	Rational construction of functional molybdenum (tungsten)-copper-sulfur coordination oligomers and polymers from preformed cluster precursors. <b>2016</b> , 45, 4995-5019	94
847	Toward Topology Prediction in Zr-Based Microporous Coordination Polymers: The Role of Linker Geometry and Flexibility. <b>2016</b> , 16, 4148-4153	53
846	Crystal structure of catena-poly[diaqua-🛭 -4,4?-biphenyl-4,4?-diyldipyridine-🖺 N:N?-bis(5-carboxy-2,6-dimethylpyridine-3-carboxyla dihydrate, C40H40N4O12Ni. <b>2016</b> , 231, 157-159	to₃D)nick

845	Crystal structure of poly[dibromido-(@a@,4?-bis-(pyrid-4-yl)biphenyl-@N:N?)lead(II)], C22H16N2PbBr2. <b>2016</b> , 231, 191-192	5
844	A Porous Zirconium-Based Metal-Organic Framework with the Potential for the Separation of Butene Isomers. <b>2016</b> , 22, 14988-14997	46
843	Highly Dispersed Polyoxometalate-Doped Porous Co O Water Oxidation Photocatalysts Derived from POM@MOF Crystalline Materials. <b>2016</b> , 22, 15513-15520	67
842	Nanostructured hybrid materials based on reduced graphene oxide for solar energy conversion. <b>2016</b> ,	3
841	Metal-Organic Frameworks and Related Materials: Miles to Go. <b>2016</b> , 33-109	1
840	Functionalized Graphene Nanosheet as a Membrane for Water Desalination Using Applied Electric Fields: Insights from Molecular Dynamics Simulations. <b>2016</b> , 120, 23883-23891	59
839	Improvement of the atomic oxygen resistance of carbon fiber-reinforced cyanate ester composites modified by POSS-graphene-TiO2. <b>2016</b> , 133, 211-218	17
838	Syntheses, characterizations of copper compounds containing a series of S-, N-containing aromatic heterocyclic 2,2?:6?,2?-terpyridine derivatives. <b>2016</b> , 69, 3638-3649	4
837	Partitioning MOF-5 into Confined and Hydrophobic Compartments for Carbon Capture under Humid Conditions. <b>2016</b> , 138, 10100-3	159
836	ZIF-derived nitrogen-doped carbon/3D graphene frameworks for all-solid-state supercapacitors. <b>2016</b> , 6, 76575-76581	14
835	Environmentally Friendly Supercapacitors. <b>2016</b> , 351-492	6
834	In Situ Reduction of Graphene Oxide Nanosheets in Poly(vinyl alcohol) Hydrogel by #Ray Irradiation and Its Influence on Mechanical and Tribological Properties. <b>2016</b> , 120, 19442-19453	39
833	Orthogonal Synthesis of Covalent Polydendrimer Frameworks by Fusing Classical and Onion-Peel Phosphorus-Based Dendritic Units. <b>2016</b> , 49, 5796-5805	10
832	Combination and hybridisation of treatments in dye wastewater treatment: A review. <b>2016</b> , 4, 3618-3631	71
831	Composite zeolite/carbonized polyaniline electrodes for pâllitrophenol sensing. <b>2016</b> , 778, 137-147	13
830	Study of Ferrocene Dicarboxylic Acid on Substrates of Varying Chemical Activity. <b>2016</b> , 120, 21955-21961	11
829	Structures and Inclusion Properties of Hydrogen-Bonded Host Frameworks Formed by 4,4?-(9-Fluorenylidene)diphenol and Diamines. <b>2016</b> , 16, 5869-5876	2
828	Snapshots of encapsulated porphyrins and heme enzymes in metal-organic materials: A prevailing paradigm of heme mimicry. <b>2016</b> , 326, 135-163	18

# (2016-2016)

827	Heat transfer and tribological performance of graphene nanolubricant in an internal combustion engine. <b>2016</b> , 103, 504-515	65
826	Synthetic methods and potential applications of transition metal dichalcogenide/graphene nanocomposites. <b>2016</b> , 326, 86-110	34
825	Sonoelectrochemical Synthesis of Nano Zinc (II) Complexes with 9-Anthracenecarboxylic Acid: Effect of Current Density and Study of their Photophysical Properties. <b>2016</b> , 26, 2053-2061	2
824	Amide-CO2 Interaction Induced Gate-Opening Behavior for CO2 Adsorption in 2-Fold Interpenetrating Framework. <b>2016</b> , 1, 2923-2929	11
823	Synthesis of nanoporous carbohydrate metal-organic framework and encapsulation of acetaldehyde. <b>2016</b> , 451, 72-78	27
822	Catalysis of CO2 Electroreduction. <b>2016</b> , 155-228	1
821	High Methane Storage Working Capacity in Metal-Organic Frameworks with Acrylate Links. <b>2016</b> , 138, 10244-51	201
820	A computational study of bulk porous two-dimensional polymers related to graphyne. <b>2016</b> , 18, 21305-14	1
819	Anionic dyes removal from aqueous solution using TMU-16 and TMU-16-NH 2 as isoreticular nanoporous metal organic frameworks. <b>2016</b> , 66, 164-171	33
818	A series of transition metalaBrganic frameworks: crystal structures, luminescence properties, and sensitizing for luminescent Ln(III) ions in aqueous solution. <b>2016</b> , 6, 69007-69015	9
817	Dyeing crystals since 2000. <b>2016</b> , 18, 8988-8998	28
816	Controlling the magnetic properties of dysprosium metallofullerene within metal-organic frameworks. <b>2016</b> , 45, 19226-19229	23
815	Cs(I) and Sr(II) Sorption onto Graphene Oxide. <b>2016</b> , 34, 594-602	26
814	Easy access to 3-indolyl 1,1,2,2-ethanetetracarboxylates from malonates and indoles catalyzed by Pd(OAc)2. <b>2016</b> , 72, 8061-8065	1
813	Synthesis and structural characterization of separate graphene oxide and reduced graphene oxide nanosheets. <b>2016</b> , 3, 105036	27
812	Unprecedented adsorptive removal of Cr2O72âland methyl orange by using a low surface area organosilica. <b>2016</b> , 4, 17866-17874	33
811	Fabrication of a MIL-53(Al) Nanocomposite Membrane and Potential Application in Desalination of Dye Solutions. <b>2016</b> , 55, 12099-12110	45
810	An Introduction to the Mechanical Bond. <b>2016</b> , 1-54	2

809	Multiscale Computational Study on the Adsorption and Separation of CO /CH and CO /H on Li -Doped Mixed-Ligand Metal-Organic Framework Zn (NDC) (diPyNI). <b>2016</b> , 17, 4124-4133	16
808	Application of poly (amide-b-ethylene oxide)/zeolitic imidazolate framework nanocomposite membrane in gas separation. <b>2016</b> , 25, 977-990	6
807	Covalent immobilization of metal-organic frameworks onto the surface of nylona new approach to the functionalization and coloration of textiles. <b>2016</b> , 6, 22796	26
806	Mapping of metal-organic frameworks publications: A bibliometric analysis. <b>2016</b> , 73, 174-182	44
805	Crystal structure of poly [᠒-acetato-ß-O,O?:O?)diaqua(ß-isophthalato-ßO,O?:O???)cerium(III)] monohydrate (C10H13O9Ce). <b>2016</b> , 231, 413-414	
804	Crystal structure of catena-poly[dichlorido-(᠒-4-(pyridin-4-yl)-isophthalate-᠒O, O?)cadmium(II)] monohydrate, C13H11NO5Cl2Cd. <b>2016</b> , 231, 1013-1014	
803	Crystal structure of poly[(5-carboxy-2,6-dimethylpyridinium-3,5-dicarboxylato-BC C36H33ErN4O16. <b>2016</b> , 231, 759-761	,O?:O??)erb
802	Graphene-based Chemical Sensors. <b>2016</b> , 221-243	
801	Opening of Bottleneck Pores for the Improvement of Nitrogen Doped Carbon Electrocatalysts. <b>2016</b> , 6, 1502389	155
800	Graphene based nanofluids and nanolubricants âlReview of recent developments. <b>2016</b> , 63, 346-362	168
799	Spatial aromatic fences of metal-organic frameworks for manipulating the electron spin of a fulleropyrrolidine nitroxide radical. <b>2016</b> , 45, 11272-6	3
798	Synthesis of graphene oxide/rare-earth complex hybrid luminescent materials via Estacking and their pH-dependent luminescence. <b>2016</b> , 687, 95-103	32
797	Porous Coordination Polymers Based on {Mn6} Single-Molecule Magnets. <b>2016</b> , 55, 5880-5	19
796	Performance evaluation of a novel CO2 absorbent: Dimethyl carbonate. <b>2016</b> , 44, 140-151	15
795	Hydrogen storage capacity enhancement of MIL-53(Cr) by Pd loaded activated carbon doping. <b>2016</b> , 63, 463-472	18
794	Design and performance of Ag nanoparticle-modified graphene/SnAgCu lead-free solders. <b>2016</b> , 667, 87-96	36
793	Effect of External Electric Fields on the Multifunctional Applications of Graphene. 2016, 253-272	
79 <sup>2</sup>	Graphene woven fabric-reinforced polyimide films with enhanced and anisotropic thermal conductivity. <b>2016</b> , 87, 290-296	81

# (2016-2016)

791	Improved microstructure and mechanical properties for Sn58Bi0.7Zn solder joint by addition of graphene nanosheets. <b>2016</b> , 671, 127-136	40
790	Little Thermodynamic Penalty for the Synthesis of Ultraporous Metal Organic Frameworks. <b>2016</b> , 17, 468-70	13
789	Synthesis of 1,2-Dicarbonyl-3-enes by Hydroacylation of 1-Alkynes with Glyoxal Derivatives Using Metal-Organic Framework Cu/MOF-74 as Heterogeneous Catalyst. <b>2016</b> , 81, 361-369	6
788	Hollow mesoporous silica sphere-embedded composite separator for high-performance lithium-ion battery. <b>2016</b> , 20, 2847-2855	16
787	A facile strategy to fabricate carboxyl-rich carbon spheres with copper-based MOFs through coordination bond. <b>2016</b> , 23, 1537-1545	6
786	One-pot self-assembly and photoreduction synthesis of silver nanoparticle-decorated reduced graphene oxide/MIL-125(Ti) photocatalyst with improved visible light photocatalytic activity. <b>2016</b> , 30, 289-296	117
7 <sup>8</sup> 5	Adsorptive removal of acid orange 7 from aqueous solution with metalâBrganic framework material, iron (III) trimesate. <b>2016</b> , 57, 3218-3226	13
784	Shape selective properties of the Al-fumarate metal-organic framework in the adsorption and separation of n-alkanes, iso-alkanes, cyclo-alkanes and aromatic hydrocarbons. <b>2016</b> , 18, 3294-301	29
783	A series of s-block (Ca, Sr and Ba) metalâBrganic frameworks: synthesis and structureâBroperty correlation. <b>2016</b> , 18, 1046-1053	21
782	A porous metal-organic framework with a unique hendecahedron-shaped cage: structure and controlled drug release. <b>2016</b> , 45, 3694-7	17
781	Efficient and chromatography-free methodology for the modular synthesis of oligo-(1 H -pyrazol-4-yl)-arenes with controllable size, shape and steric bulk. <b>2016</b> , 57, 895-898	6
780	â <b>P</b> inwheelâlsubunit-directed polyoxometalate-based hybrid compound [Cu(bimb)2]2[EMo8O26] with both helixes and chiral layers. <b>2016</b> , 40, 2944-2948	9
779	Synthesis, structure and characterization of a layered coordination polymer based on Zn(II) and 6-(methylmercapto)purine. <b>2016</b> , 6, 260-268	8
778	Application of Consistency Criteria To Calculate BET Areas of Micro- And Mesoporous Metal-Organic Frameworks. <b>2016</b> , 138, 215-24	145
777	1,5-Benzodiazepine synthesis via cyclocondensation of 1,2-diamines with ketones using iron-based metalâBrganic framework MOF-235 as an efficient heterogeneous catalyst. <b>2016</b> , 333, 94-101	34
776	A porous framework based on tetrakis(4-pyridyloxymethyl)methane fine-tuned by metal ions: synthesis, crystal structures and adsorption properties. <b>2016</b> , 40, 1430-1435	1
775	Rapid synthesis of hybrids and hollow PdO nanostructures by controlled in situ dissolution of a ZnO nanorod template: insights into the formation mechanism and thermal stability. <b>2016</b> , 8, 1462-9	3
774	A [Cu 4 I] cluster based metal-organic framework to detect F âlions. <b>2016</b> , 63, 69-73	17

773	De Novo Tailoring Pore Morphologies and Sizes for Different Substrates in a Urea-Containing MOFs Catalytic Platform. <b>2016</b> , 28, 2000-2010	54
772	Polynuclear copper(II) complexes bridged by polycarboxylates of aromatic and N-heterocyclic compounds. <b>2016</b> , 111, 45-52	12
771	Recent advances for cyclodextrin-based materials in electrochemical sensing. <b>2016</b> , 80, 232-241	71
770	Ionic Liquid-Carbon Nanomaterial Hybrids for Electrochemical Sensor Applications: a Review. <b>2016</b> , 193, 321-343	128
769	Structures and spectroscopic properties of Ni(II) and Mn(II) complexes based on 5-(3?, 5?-dicarboxylphenyl) picolinic acid ligand. <b>2016</b> , 1111, 126-131	7
768	Syntheses, structures and magnetic properties of a series of lanthanide complexes based on p-methoxybenzoic acid. <b>2016</b> , 66, 59-63	3
767	Two-Component Polymeric Materials of Fullerenes and the Transition Metal Complexes: A Bridge between Metal-Organic Frameworks and Conducting Polymers. <b>2016</b> , 116, 3812-82	88
766	Unique (3,9)-connected porous coordination polymers constructed by tripodal ligands with bent arms. <b>2016</b> , 18, 4115-4120	14
765	Molecular Interactions of a Cu-Based MetalâDrganic Framework with a Confined Imidazolium-Based Ionic Liquid: A Combined Density Functional Theory and Experimental Vibrational Spectroscopy Study. <b>2016</b> , 120, 3295-3304	105
764	High-Quality Metal-Organic Framework Ultrathin Films for Electronically Active Interfaces. <b>2016</b> , 138, 2576-84	49
763	Hydrogen Storage in the Expanded Pore MetalâØrganic Frameworks M2(dobpdc) (M = Mg, Mn, Fe, Co, Ni, Zn). <b>2016</b> , 28, 1128-1138	140
762	Adaptation of guest molecules: A simple system that amplifies the gentle perturbation of host lattices from nickel(II) to cobalt(II). <b>2016</b> , 445, 96-102	2
761	Growing Carbon Nanotubes from Both Sides of Graphene. <b>2016</b> , 8, 7356-62	32
760	Four coordination polymers derived from a one-pot reaction and their controlled synthesis. <b>2016</b> , 45, 6418-23	6
759	Synthesis of indolizines through aldehydeâ\(\text{Bmine}\)ine couplings using metal-organic framework Cu-MOF-74 as an efficient heterogeneous catalyst. <b>2016</b> , 337, 167-176	48
758	Synthesis, structures, luminescence and magnetism of nine lanthanide complexes with three-dimensional frameworks constructed from 2-(pyridyl-N-oxide)methylphosphonic acid and oxalic acid. <b>2016</b> , 18, 2437-2445	13
757	A review on contemporary MetalâDrganic Framework materials. <b>2016</b> , 446, 61-74	221
756	Crystalline coordination framework endowed with dynamic gate-opening behaviour by being downsized to a thin film. <b>2016</b> , 8, 377-83	167

755	Coupling fullerene into porous aromatic frameworks for gas selective sorption. <b>2016</b> , 7, 3751-3756	33
754	A magnetic nanocomposite prepared from chelator-modified magnetite (Fe3O4) and HKUST-1 (MOF-199) for separation and preconcentration of mercury(II). <b>2016</b> , 183, 1391-1399	54
753	A Cd(II)-based metal-organic framework as a luminance sensor to nitrobenzene and Tb(III) ion. <b>2016</b> , 45, 6983-9	41
75 <sup>2</sup>	Cube-shaped Porous Carbon Derived from MOF-5 as Advanced Material for Sodium-Ion Batteries. <b>2016</b> , 196, 413-421	92
751	One-pot Synthesis of Metal-Organic Frameworks with Encapsulated Target Molecules and Their Applications for Controlled Drug Delivery. <b>2016</b> , 138, 962-8	809
750	Metal-organic framework derived hollow polyhedron metal oxide posited graphene oxide for energy storage applications. <b>2016</b> , 52, 946-9	40
749	Heteropoly acid encapsulated into zeolite imidazolate framework (ZIF-67) cage as an efficient heterogeneous catalyst for Friedelâ©rafts acylation. <b>2016</b> , 233, 303-310	71
748	Carbon dioxide gas detection by open metal site metal organic frameworks and surface functionalized metal organic frameworks. <b>2016</b> , 225, 363-368	34
747	Cu2(pzdc)2L [L = dipyridyl-based ligands] porous coordination polymers: Hysteretic adsorption and diffusion kinetics of CO2 and CH4. <b>2016</b> , 283, 806-815	11
746	Iron-catalyzed domino sequences: One-pot oxidative synthesis of quinazolinones using metalâBrganic framework Fe3O(BPDC)3 as an efficient heterogeneous catalyst. <b>2016</b> , 284, 778-785	19
745	Hydrogen storage by adsorption in porous materials: Is it possible?. <b>2016</b> , 496, 69-76	25
744	Molecular simulation study of metal organic frameworks for methane capture from low-concentration coal mine methane gas. <b>2016</b> , 23, 107-122	12
743	Mg-MOF-74 nanostructures: facile synthesis and characterization with aid of 2,6-pyridinedicarboxylic acid ammonium. <b>2016</b> , 27, 1449-1456	24
742	Coordination polymers and metalâBrganic frameworks based on poly(pyrazole)-containing ligands. <b>2016</b> , 307, 1-31	182
741	What are the practical limits for the specific surface area and capacitance of bulk sp2 carbon materials?. <b>2016</b> , 59, 225-230	13
740	MetalâBrganic frameworks containing N-heterocyclic carbenes and their precursors. <b>2016</b> , 307, 188-210	82
739	Relaxation behavior of nanographite-reinforced silicon elastomer nanocomposites. <b>2016</b> , 28, 3-13	7
738	WO3-based photocatalysts: morphology control, activity enhancement and multifunctional applications. <b>2017</b> , 4, 539-557	219

737	An Electrochemical Sensor Based on Graphene-Polypyrrole Nanocomposite for the Specific Detection of Pb (II). <b>2017</b> , 12, 1750008	17
736	Pore modulation of metalåBrganic frameworks towards enhanced hydrothermal stability and acetylene uptake via incorporation of different functional brackets. <b>2017</b> , 5, 4861-4867	55
735	Highly conductive and robust composite anion exchange membranes by incorporating quaternized MIL-101(Cr). <b>2017</b> , 62, 266-276	19
734	One-pot in situ polymerization of graphene oxide nanosheets and poly(p-phenylenebenzobisoxazole) with enhanced mechanical and thermal properties. <b>2017</b> , 141, 16-23	18
733	In-situ ethylenediamine-assisted synthesis of a magnetic iron-based metal-organic framework MIL-53(Fe) for visible light photocatalysis. <b>2017</b> , 494, 32-37	61
732	Screening metal-organic frameworks for separation of pentane isomers. <b>2017</b> , 19, 8380-8387	14
731	Preparation of cerium doped Cu/MIL-53(Al) catalyst and its catalytic activity in CO oxidation reaction. <b>2017</b> , 32, 23-28	2
730	Structure directing role of amines and water molecules in the self-assembly of polyoxomolybdates. <b>2017</b> , 19, 2021-2035	4
729	Introduction to Coordination Polymers. <b>2017</b> , 1-16	
728	A porous Ca-MOF with nano-sized {Ca11} as building unit: Structure, drug loading and release properties. <b>2017</b> , 78, 43-47	16
727	Effect of Cations on the Structure and Electrocatalytic Response of Polyoxometalate-Based Coordination Polymers. <b>2017</b> , 17, 1600-1609	46
726	A triptycene-based porous hydrogen-bonded organic framework for guest incorporation with tailored fitting. <b>2017</b> , 53, 3677-3680	42
725	The applications of metal-organic-frameworks in controlled release of drugs. 2017, 7, 1-22	19
724	Controllable assembly of three copper-organic frameworks: Structure transformation and gas adsorption properties. <b>2017</b> , 126, 83-91	10
723	The applications of zeolitic imidazolate framework-8 in electrical energy storage devices: a review. <b>2017</b> , 28, 7532-7543	35
722	Kinetic effects of methane on binary mixture separation on methyltriethoxysilane templated silica membranes. <b>2017</b> , 182, 151-159	7
721	Thermal stabilities and crystal structures of two supramolecular microporous frameworks based on carboxylate-dipyridyl mix-ligands. <b>2017</b> , 43, 55-62	3
720	Composite CD-MOF nanocrystals-containing microspheres for sustained drug delivery. <b>2017</b> , 9, 7454-7463	148

719	Spectroscopic and kinetic insights of Pt-dispersion over microwave-synthesized GO-supported Pt-TiO 2 for CO oxidation. <b>2017</b> , 432, 88-98	11
718	Recent advances in the synthesis and applications of metal organic frameworks doped with ionic liquids for CO 2 adsorption. <b>2017</b> , 351, 189-204	76
717	Zeolitic-imidazole framework thin film-based flexible resistive switching memory. <b>2017</b> , 7, 21045-21049	23
716	Topology Conversions of Non-Interpenetrated MetalâDrganic Frameworks to Doubly Interpenetrated MetalâDrganic Frameworks. <b>2017</b> , 29, 3899-3907	15
715	Performance evaluation of CO2 capture with diethyl succinate. <b>2017</b> , 200, 119-131	13
714	Bicyclo[2.2.2]octane-1,4-dicarboxylic acid: towards transparent metal-organic frameworks. <b>2017</b> , 46, 7397-7402	8
713	Alkylation of benzene over Fe-based metal organic frameworks (MOFs) at low temperature condition. <b>2017</b> , 249, 118-127	24
712	Adsorption and diffusion of lithium in a graphene/blue-phosphorus heterostructure and the effect of an external electric field. <b>2016</b> , 19, 267-275	27
711	Control of Interpenetration and Gas-Sorption Properties of Three Mn(II)-tris((4-carboxyl)phenylduryl)amine Frameworks by Tuning Solvent and Temperature. <b>2017</b> , 17, 290-294	24
710	Metal-Organic Frameworks for Carbon Dioxide Capture and Methane Storage. <b>2017</b> , 7, 1601296	<b>2</b> 60
710 709	Metal-Organic Frameworks for Carbon Dioxide Capture and Methane Storage. <b>2017</b> , 7, 1601296  Gas adsorption in Mg-porphyrin-based porous organic frameworks: A computational simulation by first-principles derived force field. <b>2017</b> , 38, 2100-2107	260
<i>,</i>	Gas adsorption in Mg-porphyrin-based porous organic frameworks: A computational simulation by	
709	Gas adsorption in Mg-porphyrin-based porous organic frameworks: A computational simulation by first-principles derived force field. <b>2017</b> , 38, 2100-2107  A 3d-4f Complex Constructed by the Assembly of a Cationic Template, [Cu(en)2]2+, and a 3D	3
709 708	Gas adsorption in Mg-porphyrin-based porous organic frameworks: A computational simulation by first-principles derived force field. <b>2017</b> , 38, 2100-2107  A 3d-4f Complex Constructed by the Assembly of a Cationic Template, [Cu(en)2]2+, and a 3D Anionic Coordination Polymer, [Sm2(C2O4)3(C5O5)(H2O)2]2â[12017, 643, 657-663  Multiscale study of the structure and hydrogen storage capacity of an aluminum metal-organic	3
709 708 707	Gas adsorption in Mg-porphyrin-based porous organic frameworks: A computational simulation by first-principles derived force field. <b>2017</b> , 38, 2100-2107  A 3d-4f Complex Constructed by the Assembly of a Cationic Template, [Cu(en)2]2+, and a 3D Anionic Coordination Polymer, [Sm2(C2O4)3(C5O5)(H2O)2]2â[12017, 643, 657-663  Multiscale study of the structure and hydrogen storage capacity of an aluminum metal-organic framework. <b>2017</b> , 42, 15271-15282  A new route to synthesize polyaniline-grafted carboxyl-functionalized graphene composite	3 2 19
709 708 707 706	Gas adsorption in Mg-porphyrin-based porous organic frameworks: A computational simulation by first-principles derived force field. 2017, 38, 2100-2107  A 3d-4f Complex Constructed by the Assembly of a Cationic Template, [Cu(en)2]2+, and a 3D Anionic Coordination Polymer, [Sm2(C2O4)3(C5O5)(H2O)2]2â[2017, 643, 657-663  Multiscale study of the structure and hydrogen storage capacity of an aluminum metal-organic framework. 2017, 42, 15271-15282  A new route to synthesize polyaniline-grafted carboxyl-functionalized graphene composite materials with excellent electrochemical performance. 2017, 26, 423-430  Construction of molecule-selective mixed matrix membranes with confined mass transfer	3 2 19
709 708 707 706	Gas adsorption in Mg-porphyrin-based porous organic frameworks: A computational simulation by first-principles derived force field. 2017, 38, 2100-2107  A 3d-4f Complex Constructed by the Assembly of a Cationic Template, [Cu(en)2]2+, and a 3D Anionic Coordination Polymer, [Sm2(C2O4)3(C5O5)(H2O)2]2â[12017, 643, 657-663  Multiscale study of the structure and hydrogen storage capacity of an aluminum metal-organic framework. 2017, 42, 15271-15282  A new route to synthesize polyaniline-grafted carboxyl-functionalized graphene composite materials with excellent electrochemical performance. 2017, 26, 423-430  Construction of molecule-selective mixed matrix membranes with confined mass transfer structure. 2017, 25, 1563-1580  Highly effective oxygen reduction reaction electrocatalysis: Nitrogen-doped hierarchically mesoporous carbon derived from interpenetrated nonporous metal-organic frameworks. 2017,	3 2 19 9

701	Effect of differently substituted methoxybenzoates on the supramolecular assemblies of three [Cu(N-hyden)2](o-/m-/p-methoxybenzoate)2 complexes: Synthesis, spectroscopic characterization and single crystal structure determination. <b>2017</b> , 133, 213-221	4
700	Synthesis and characterization of sulfophenyl-functionalized reduced graphene oxide sheets. <b>2017</b> , 7, 27224-27234	215
699	2 p -4 f MOFs based on naphthalene-1,4,5,8-tetracarboxylate with magnetocaloric effect and slow magnetic relaxation properties. <b>2017</b> , 132, 123-129	6
698	Doping of metal-organic frameworks towards resistive sensing. <b>2017</b> , 7, 2439	34
697	MetalâBrganic framework MOF-199-catalyzed direct and one-pot synthesis of thiols, sulfides and disulfides from aryl halides in wet polyethylene glycols (PEG 400). <b>2017</b> , 38, 572-583	3
696	Metal-Organic-Frameworks as Contrast Agents in Magnetic Resonance Imaging. <b>2017</b> , 4, 225-239	25
695	Nanostructured Materials for Next-Generation Energy Storage and Conversion. 2017,	4
694	Croconato-bridged copper(II) complexes: synthesis, structure and magnetic characterization. <b>2017</b> , 41, 3846-3856	3
693	Synthesis of the homochiral metalâBrganic framework DUT-129 based on a chiral dicarboxylate linker with 6 stereocenters. <b>2017</b> , 19, 2494-2499	13
692	Built-in TTFâIICNQ charge-transfer salts in Estacked pillared layer frameworks. <b>2017</b> , 19, 2300-2304	14
691	Influence of releasing graphene oxide into a clayey sand: physical and mechanical properties. <b>2017</b> , 7, 18060-18067	20
690	Mesoporous silica particles-embedded high performance separator for lithium-ion batteries. <b>2017</b> , 28, 6512-6519	3
689	Superior, rapid and reversible sensing activity of graphene-SnO hybrid film for low concentration of ammonia at room temperature. <b>2017</b> , 244, 243-251	37
688	A novel methoxy-decorated metalâBrganic framework exhibiting high acetylene and carbon dioxide storage capacities. <b>2017</b> , 19, 1464-1469	30
687	Metal-organic-frameworks for biomedical applications in drug delivery, and as MRI contrast agents. <b>2017</b> , 105, 1184-1194	64
686	Group 13th metal-organic frameworks and their role in heterogeneous catalysis. <b>2017</b> , 335, 1-27	69
685	Metal organic frameworks with 1,3-bis(1-imidazolyl)-5-(imidazol-1- ylmethyl)benzene and 3,3?-disulfobiphenyl-4,4?-dicarboxylate ligands: Synthesis, structure and selectively sensing property. <b>2017</b> , 244, 114-123	30
684	An In-Depth Structural Study of the Carbon Dioxide Adsorption Process in the Porous Metal-Organic Frameworks CPO-27-M. <b>2017</b> , 10, 1710-1719	24

683	Beyond pristine MOFs: carbon dioxide capture by metalâBrganic frameworks (MOFs)-derived porous carbon materials. <b>2017</b> , 7, 1266-1270	30
682	Selective nitrogen capture by porous hybrid materials containing accessible transition metal ion sites. <b>2017</b> , 16, 526-531	135
681	Insight into the Unique Fluorescence Quenching Property of Metal-Organic Frameworks upon DNA Binding. <b>2017</b> , 89, 11366-11371	57
680	Recent advances in Prussian blue and Prussian blue analogues: synthesis and thermal treatments. <b>2017</b> , 352, 328-345	152
679	Sugar Cane-Converted Graphene-like Material for the Superhigh Adsorption of Organic Pollutants from Water via Coassembly Mechanisms. <b>2017</b> , 51, 12644-12652	40
678	A Combined Theoretical Calculation and Hirshfeld Surface Analysis of Cooperative Non-covalent Interactions in the Crystal Packing in [Cu(L1)2(EDA)]. <b>2017</b> , 643, 1245-1252	9
677	The studies on gas adsorption properties of MIL-53 series MOFs materials. <b>2017</b> , 7, 085009	16
676	Sparse fulleryne structures enhance potential hydrogen storage and mobility. <b>2017</b> , 5, 21223-21233	5
675	Recognition of harmful fused aromatic hydrocarbons via a metal-organic framework with hydrophobic pores. <b>2017</b> , 86, 200-203	4
674	Recent developments in graphene-based/nanometal composite filter membranes. <b>2017</b> , 7, 47886-47897	17
673	A highly crystalline oriented metal-organic framework thin film with an inorganic pillar. <b>2017</b> , 53, 10112-1011	59
672	Valuing Metal-Organic Frameworks for Postcombustion Carbon Capture: A Benchmark Study for Evaluating Physical Adsorbents. <b>2017</b> , 29, 1702953	70
671	A Dense IO Hybrid Superhydrophobic Network, Pb(H-BTMB), Exhibits Selectivity toward CO Gas Sorption. <b>2017</b> , 56, 11184-11189	12
670	Composite materials combining multiple luminescent MOFs and superparamagnetic microparticles for ratiometric water detection. <b>2017</b> , 5, 10133-10142	42
669	Multi-Photon Absorption in Metal-Organic Frameworks. <b>2017</b> , 56, 14743-14748	50
668	Multiphotonenabsorption in Metall-organischen Gerßtverbindungen. <b>2017</b> , 129, 14938-14943	9
667	Improved microstructure, thermal and tensile properties of Zn and graphine oxide nano sheets (GONSs) doped Snâll wt%Agâll.5 wt%Cu for electronic assemblies. <b>2017</b> , 28, 19181-19192	0
666	A zirconium metal-organic framework with an exceptionally high volumetric surface area. <b>2017</b> , 46, 14270-14	27:64

665	A Poly(ethylenglycol) Functionalized ZIF-8 Membrane Prepared by Coordination-Based Post-Synthetic Strategy for the Enhanced Adsorption of Phenolic Endocrine Disruptors from Water. <b>2017</b> , 7, 8912	17
664	Size Controllable and Surface Tunable Zeolitic Imidazolate Framework-8-Poly(acrylic acid sodium salt) Nanocomposites for pH Responsive Drug Release and Enhanced in Vivo Cancer Treatment. <b>2017</b> , 9, 32990-33000	54
663	Efficiently mapping structure-property relationships of gas adsorption in porous materials: application to Xe adsorption. <b>2017</b> , 201, 221-232	5
662	Highly reversible lithium storage in cobalt 2,5-dioxido-1,4-benzenedicarboxylate metal-organic frameworks boosted by pseudocapacitance. <b>2017</b> , 506, 365-372	24
661	Preparation of spherical metal-organic frameworks encapsulating ag nanoparticles and study on its antibacterial activity. <b>2017</b> , 80, 698-707	38
660	Part II: Quantum mechanical prediction of heats of adsorption for C2-C4 hydrocarbons in MOF-74-Mg/Zn periodic structures. <b>2017</b> , 682, 168-174	3
659	Electrocatalysts Derived from Metal-Organic Frameworks for Oxygen Reduction and Evolution Reactions in Aqueous Media. <b>2017</b> , 13, 1701143	125
658	Frontiers of water oxidation: the quest for true catalysts. <b>2017</b> , 46, 6124-6147	168
657	Molecular Dynamics Phenomena of Water in the Metalorganic Framework MIL-100(Al), as Revealed by Pulsed Field Gradient NMR and Atomistic Simulation. <b>2017</b> , 121, 18065-18074	22
656	Fulleretic Materials: Buckyball- and Buckybowl-Based Crystalline Frameworks. <b>2017</b> , 29, 7054-7061	47
655	Zn@ZIF-67 as Catalysts for the Knoevenagel Condensation of Aldehyde Derivatives with Malononitrile. <b>2017</b> , 147, 2410-2420	24
654	Synthesis of graphene oxide/Ag3PO4 composite with enhanced visible-light photocatalytic activity. <b>2017</b> , 28, 16696-16703	5
653	Adsorption of organic contaminants by graphene nanosheets: A review. <b>2017</b> , 126, 385-398	251
652	Self-assembly of polyoxometalate-based hybrid aggregates: from a monomer to dimers by changing the pH value of reaction systems. <b>2017</b> , 41, 10148-10154	5
651	Cobalt terephthalate MOF-templated synthesis of porous nano-crystalline Co3O4 by the new indirect solid state thermolysis as cathode material of asymmetric supercapacitor. <b>2017</b> , 94, 158-166	39
650	Dielectric relaxation dynamics and AC conductivity scaling of metal-organic framework (MOF-5) based polymer electrolyte nanocomposites incorporated with ionic liquid. <b>2017</b> , 50, 425302	9
649	Graphene Applications in Biosensors and Diagnostics. <b>2017</b> , 297-326	1
648	Engineering reduced graphene oxides with enhanced electrochemical properties through multiple-step reductions. <b>2017</b> , 258, 735-743	28

647	Hierarchically structured graphene-carbon nanotube-cobalt hybrid electrocatalyst for seawater battery. <b>2017</b> , 372, 31-37	19
646	Template synthesis of hierarchical porous metalâBrganic frameworks with tunable porosity. <b>2017</b> , 7, 52245-52251	48
645	Studies on graphene reinforced Cu base composites prepared by two step thermal processing method. <b>2017</b> , 4, 8045-8051	3
644	Facile Synthesis of Highly Porous Carbon from Rice Husk. <b>2017</b> , 5, 7111-7117	42
643	Crystal structure of catena-poly[dichlorido-(¼-4-(1H-pyrazol-3-yl)-pyridine-¼N,N?)]cadmium(II), C48H42Cd3Cl16N18. <b>2017</b> , 232, 717-718	
642	A zinc(II) benzenetricarboxylate metal organic framework with unusual adsorption properties, and its application to the preconcentration of pesticides. <b>2017</b> , 184, 3681-3687	37
641	Preparation and electrochemical properties of nanocable-like Nb2O5/surface-modified carbon nanotubes composites for anode materials in lithium ion batteries. <b>2017</b> , 246, 1088-1096	84
640	CO2 sorption behavior of imidazole, benzimidazole and benzoic acid based coordination polymers. <b>2017</b> , 332, 100-121	46
639	Microperoxidase-11@PCN-333 (Al)/three-dimensional macroporous carbon electrode for sensing hydrogen peroxide. <b>2017</b> , 239, 890-897	57
638	Adsorption of H2 on aluminum-based metal-organic frameworks: A computational study. <b>2017</b> , 126, 176-181	15
637	Unprecedented salt-promoted direct arylation of acidic sp2 CH bonds under heterogeneous Ni-MOF-74 catalysis: Synthesis of bioactive azole derivatives. <b>2017</b> , 426, 141-149	30
636	A low-crystalline ruthenium nano-layer supported on praseodymium oxide as an active catalyst for ammonia synthesis. <b>2017</b> , 8, 674-679	102
635	Research on preparation and performance of supercritical graphene composite electrodepositing layer. <b>2017</b> , 181, 83-89	
634	Crystal structure of poly[aqua-(B-4-(pyridin-4-yl)isophthalato-4O,O?:O??:O???)-(2-5-carboxy-2-(pyridin-4-yl)benzoato-2O:O?)yttriun C26H17N2O9Y. <b>2017</b> , 232, 977-978	n(III)],
633	In Situ Study on Oxygen Etching of Surface Buffer Layer on SiC(0001) Terraces. 2017, 15, 13-18	3
632	Modeling of Adsorption Thermodynamics of Linear and Branched Alkanes in the Aluminum Fumarate Metal Organic Framework. <b>2017</b> , 121, 20287-20295	1
631	Optical and emission properties of dye molecules captured in the mesoscale channels of micron-sized metal-organic framework crystals. <b>2017</b> ,	
630	Crystal structure of poly[2-acetato-3-0,0?:0?)diaqua(3-isophthalato-40,0?:0??:0???)yttrium(III)] monohydrate,	

629	Terahertz scattering and water absorption for porosimetry. <b>2017</b> , 25, 27370-27385	10
628	Landscape of Research Areas for Zeolites and Metal-Organic Frameworks Using Computational Classification Based on Citation Networks. <b>2017</b> , 10,	13
627	Synthesis, Crystal Structure, Gas Absorption, and Separation Properties of a Novel Complex Based on Pr and a Three-Connected Ligand. <b>2017</b> , 7, 370	3
626	Unit Synthesis Approach for Creating High Dimensionally Structured Complex Metal Oxides as Catalysts for Selective Oxidations. <b>2018</b> , 8, 2935-2943	21
625	Crystallographic snapshots of hoståguest interactions in drugs@metalåBrganic frameworks: towards mimicking molecular recognition processes. <b>2018</b> , 5, 683-690	43
624	Microwave-Assisted, Ni-Induced Fabrication of Hollow ZIF-8 Nanoframes for the Knoevenagel Reaction. <b>2018</b> , 18, 3841-3850	18
623	Bifunctional electrocatalysts of MOF-derived CoâN/C on bamboo-like MnO nanowires for high-performance liquid- and solid-state ZnâBir batteries. <b>2018</b> , 6, 9716-9722	128
622	Importance of Topology in Materials Science. <b>2018</b> , 3-33	1
621	New advanced approach of ultra-fast synthesis of ultrahigh-BET-surface area crystalline metal-organic-frameworks MOFs. <b>2018</b> , 224, 71-74	5
620	Effect of oxygen-containing functional groups in epoxy/reduced graphene oxide composite coatings on corrosion protection and antimicrobial properties. <b>2018</b> , 448, 351-361	55
619	Investigating the effect of graphene nanoplatelets on the thermal conductivity of KAl(SO4)2 $\square$ 12H2O. <b>2018</b> , 5, 045513	2
618	Hollow polymer nanocapsules: synthesis, properties, and applications. <b>2018</b> , 9, 2059-2081	45
617	Preparations, properties and applications of graphene in functional devices: A concise review. <b>2018</b> , 44, 11940-11955	116
616	A porous, electrically conductive hexa-zirconium(iv) metal-organic framework. <b>2018</b> , 9, 4477-4482	118
615	Optimizing information content in MOF sensor arrays for analyzing methane-air mixtures. <b>2018</b> , 267, 483-493	22
614	Nanocomposites formed by in situ growth of NiDOBDC nanoparticles on graphene oxide sheets for enhanced CO2 and H2 storage. <b>2018</b> , 265, 35-42	22
613	Anisotropic Paramagnetic Properties of Metallofullerene Confined in a MetalâDrganic Framework. <b>2018</b> , 122, 4635-4640	12
612	MetalâBrganic framework technologies for water remediation: towards a sustainable ecosystem. <b>2018</b> , 6, 4912-4947	279

611	A new 3D POMOF with two channels consisting of WellsâDawson arsenotungstate and {Cl4Cu10(pz)11} complexes: synthesis, crystal structure, and properties. <b>2018</b> , 42, 4596-4602	8
610	Facile synthesis of a cationic-doped [CaAlO](4e) composite via a rapid citrate sol-gel method. <b>2018</b> , 47, 3819-3830	37
609	Three-dimensional nanopores on monolayer graphene for hydrogen storage. <b>2018</b> , 209, 134-145	5
608	Density Functional Theory-Based Adsorption Isotherms for Pure and Flue Gas Mixtures on Mg-MOF-74. Application in CO2 Capture Swing Adsorption Processes. <b>2018</b> , 122, 3945-3957	26
607	Green synthesis of water-soluble graphene nanosheets under solvent-free condition and in-situ anchored with MnO2 as supercapacitor. <b>2018</b> , 29, 6692-6701	3
606	Current Scenario of Adsorbent Materials Used in Ethylene Scavenging Systems to Extend Fruit and Vegetable Postharvest Life. <b>2018</b> , 11, 511-525	37
605	Facile preparation of porous carbon nanomaterials for robust supercapacitors. <b>2018</b> , 33, 1142-1154	3
604	Porous substrates as platforms for the nanostructuring of molecular magnets. <b>2018</b> , 20, 1011-1030	10
603	Emergence of Surface- and Interface-Induced Structures and Properties in MetalâDrganic Framework Thin Films. <b>2018</b> , 2018, 1697-1706	21
602	Facile Metal Coordination of Active Site Imprinted Nitrogen Doped Carbons for the Conservative Preparation of Non-Noble Metal Oxygen Reduction Electrocatalysts. <b>2018</b> , 8, 1701771	42
601	Investigation of mechanochemical green synthesis of exfoliated graphite nano-platelets on conductivity and its nonlinear properties based on zinc oxide. <b>2018</b> , 29, 4345-4350	1
600	An implanted paramagnetic metallofullerene probe within a metal-organic framework. <b>2018</b> , 10, 3291-3298	17
599	A graphene oxide nanosheet-modified Ti nanocomposite electrode with enhanced electrochemical property and stability for nitrate reduction. <b>2018</b> , 348, 171-179	36
598	TopoFF: MOF structure prediction using specifically optimized blueprints. <b>2018</b> , 211, 79-101	20
597	Potential of metalâBrganic frameworks for adsorptive separation of industrially and environmentally relevant liquid mixtures. <b>2018</b> , 367, 82-126	73
596	Methane Storage in Metal-Organic Frameworks: Insights into the Storage Performance and the Intrinsic Property Relationships for Enhanced Adsorbed Natural Gas Storage. <b>2018</b> , 207-246	1
595	Current Status of Porous MetalâDrganic Frameworks for Methane Storage. <b>2018</b> , 163-198	2
594	Hybridization of cellulose nanofiber with amine-polymers and its ability on sick house syndrome gas decomposition. <b>2018</b> , 92, 106-111	8

593	Applications of metalâbrganic frameworks for green energy and environment: New advances in adsorptive gas separation, storage and removal. <b>2018</b> , 3, 191-228	99
592	A review on corrosion protection with single-layer, multilayer, and composites of graphene. <b>2018</b> , 36, 155-225	19
591	Two-Dimensional Layered Materials as Catalyst Supports. <b>2018</b> , 4, 28-40	39
590	Synthesis of CoAl-layered double hydroxide/graphene oxide nanohybrid and its reinforcing effect in phenolic foams. <b>2018</b> , 30, 688-698	15
589	Secondary-amine-functionalized isoreticular metalâBrganic frameworks for controllable and selective dye capture. <b>2018</b> , 2, 129-135	24
588	Porous metalâBrganic frameworks for fuel storage. <b>2018</b> , 373, 167-198	169
587	Gas adsorption properties of hybrid graphene-MOF materials. <b>2018</b> , 514, 801-813	99
586	Microwave-induced synthesis of a bimetallic charge-transfer metal organic framework: a promising host for the chemical fixation of CO2. <b>2018</b> , 8, 591-600	61
585	Text Mining Metal-Organic Framework Papers. <b>2018</b> , 58, 244-251	26
584	Catalyst-free deposition of few layer graphene on c-plane sapphire substrates by drop casting technique. <b>2018</b> , 29, 4413-4421	4
584 583		6
	technique. <b>2018</b> , 29, 4413-4421	·
583	technique. <b>2018</b> , 29, 4413-4421  Regular Figures, Minimal Transitivity, and Reticular Chemistry. <b>2018</b> , 58, 962-970	6
583 582	Regular Figures, Minimal Transitivity, and Reticular Chemistry. <b>2018</b> , 58, 962-970  Electronic Noses: From Advanced Materials to Sensors Aided with Data Processing. <b>2018</b> , 4, 1800488	6 83
583 582 581	Regular Figures, Minimal Transitivity, and Reticular Chemistry. 2018, 58, 962-970  Electronic Noses: From Advanced Materials to Sensors Aided with Data Processing. 2018, 4, 1800488  . 2018,	6 83 3
583 582 581 580	Regular Figures, Minimal Transitivity, and Reticular Chemistry. 2018, 58, 962-970  Electronic Noses: From Advanced Materials to Sensors Aided with Data Processing. 2018, 4, 1800488  . 2018,  Renaissance of the Methane Adsorbents. 2018, 58, 985-994  TiO2-based heterojunction photocatalysts for photocatalytic reduction of CO2 into solar fuels.	6 83 3
583 582 581 580	Regular Figures, Minimal Transitivity, and Reticular Chemistry. 2018, 58, 962-970  Electronic Noses: From Advanced Materials to Sensors Aided with Data Processing. 2018, 4, 1800488  . 2018,  Renaissance of the Methane Adsorbents. 2018, 58, 985-994  TiO2-based heterojunction photocatalysts for photocatalytic reduction of CO2 into solar fuels. 2018, 6, 22411-22436  Thiophene insertion for continuous modulation of the photoelectronic properties of triphenylamine-based metalâBrganic frameworks for photocatalytic sulfonylationâByclisation of	6 83 3 6

575	. 2018,	32
574	Reticular Chemistry of Multifunctional Metal-Organic Framework Materials. <b>2018</b> , 58, 949-961	16
573	Crystal structure of poly[B-hydroxy-(B-(5-(2-carboxylatophenoxy)isophthalato-BO1:O2:O3:O4:O5,O6)-(D-1,4-di(1H-imidazol-1-yl)b hemihydrate, C25H22Co2N4O8.5. <b>2018</b> , 233, 859-861	utane- <b>2</b> N:
572	Solid-Phase Microextraction Coatings Based on Tailored Materials: MetalâDrganic Frameworks and Molecularly Imprinted Polymers. <b>2018</b> , 315-347	1
571	12-phosphotungstic Acid Supported on BEA Zeolite Composite with Carbonized Polyaniline for Electroanalytical Sensing of Phenols in Environmental Samples. <b>2018</b> , 165, H1013-H1020	10
570	Soft-templating Synthesis of Mesoporous MetalâDrganic Frameworks with Enhanced Toluene Adsorption Capacity. <b>2018</b> , 3, 12888-12893	12
569	Facile Mechanosynthesis of the Archetypal Zn-Based Metal-Organic Frameworks. <b>2018</b> , 57, 13437-13442	25
568	Guest Exchange through Facilitated Transport in a Seemingly Impenetrable Hydrogen-Bonded Framework. <b>2018</b> , 140, 12915-12921	21
567	MetalâDrganic Framework (MOF)-Derived Effective Solid Catalysts for Valorization of Lignocellulosic Biomass. <b>2018</b> , 6, 13628-13643	216
566	Temperature-Stable Compelled Composite Superhydrophobic Porous Coordination Polymers Achieved via an Unattainable de Novo Synthetic Method. <b>2018</b> , 140, 13786-13792	27
565	Influence of reduced graphene oxide on structural, optical, thermal and dielectric properties of SnO2 nanoparticles. <b>2018</b> , 29, 3415-3426	10
564	Development of novel highly conductive 3D printable hybrid polymer-graphene composites. <b>2018</b> , 17, 554-561	24
563	Magnetic Au-Ag-⊪Feâ©â¶rGO Nanocomposites as an Efficient Catalyst for the Reduction of 4-Nitrophenol. <b>2018</b> , 8,	5
562	Heterogeneous Amorphous CuâMOF-74 Catalyst for C-N Coupling Reaction. <b>2018</b> , 3, 10694-10700	7
561	Enabling Homochirality and Hydrothermal Stability in ZnO-Based Porous Crystals. <b>2018</b> , 140, 13566-13569	24
560	MOFâlation exchange resin composites and their use for water decontamination. <b>2018</b> , 5, 2784-2791	9
559	Theoretical and experimental investigations of Xe NMR chemical shift isotherms in metal-organic frameworks. <b>2018</b> , 20, 25039-25043	7
558	Biobased Functional Carbon Materials: Production, Characterization, and Applications-A Review. <b>2018</b> , 11,	39

Balancing Mechanical Stability and Ultrahigh Porosity in Crystalline Framework Materials. 2018, 57, 13780-13783-6 557 Mechanische Stabilit versus ultrahohe Porosit in kristallinen Netzwerkmaterialien: ein 556 22 Balanceakt!. 2018, 130, 13976-13979 1,3,5-Triphenylbenzene: a versatile photoluminescent chemo-sensor platform and supramolecular 555 5 building block.. 2018, 8, 17535-17550 High energy laser assisted synthesis of non-crystalline ultrahigh surface area-porous 2D-Zn ++ 554 -coordinated polymeric dodeca-chloro-corenene flakes aMOFs for CH 4 /CO 2 capture. 2018, 93, 97-104 A porous Zn-based metal-organic framework with an expanded tricarboxylic acid ligand for 553 5 effective CO2 capture and CO2/CH4 separation. 2018, 94, 39-42 Conductive Graphene-Melamine Sponge Prepared via Microwave Irradiation. 2018, 10, 24776-24783 552 42 Investigation of a new co-polyimide, 6FDA-bisP and its ZIF-8 mixed matrix membranes for CO2/CH4 551 40 separation. 2018, 207, 523-534 Graphene Aerogels Enhanced Phase Change Materials prepared by one-pot method with high 550 83 thermal conductivity and large latent energy storage. **2018**, 185, 487-493 Impact of Disordered Guest-Framework Interactions on the Crystallography of Metal-Organic 38 549 Frameworks. 2018, 140, 8958-8964 A H-shaped heterometallic Sn4Au4 system with guest-tuneable multicolour and selective 548 luminescence sensing properties. 2018, 20, 5935-5939 Copper-Based Electrodes/Catalysts for CO2 Electroreduction. 2018, 466-476 547 Efficient Capture of Organic Dyes and Crystallographic Snapshots by a Highly Crystalline 546 30 Amino-Acid-Derived Metal-Organic Framework. 2018, 24, 17712-17718 Dispersion of Graphene in Aqueous Solution. 2018, 92, 1558-1562 545 4 Critical role of FOXO3a in carcinogenesis. 2018, 17, 104 165 544 The Influence of Different Types of Graphene on the Lithium Titanate Anode Materials of a Lithium 543 11 Ion Battery. 2018, 47, 5410-5416 Assisted Tip Sonication Approach for Graphene Synthesis in Aqueous Dispersion. 2018, 6, 542 Tuning of Luminescent and Magnetic Properties via Metal Doping of Zn-BTC Systems. 2018, 8, 162 541 7 High-Pressure Methane Adsorption in Porous Lennard-Jones Crystals. 2018, 9, 4275-4281 6 540

539	Review of nanomaterials-assisted ion exchange membranes for electromembrane desalination. <b>2018</b> , 1,	53
538	Photophysical properties of cationic dyes captured in the mesoscale channels of micron-sized metal-organic framework crystals. <b>2018</b> , 8, 9838	15
537	Recent Development of Zeolitic Imidazolate Frameworks (ZIFs) Derived Porous Carbon Based Materials as Electrocatalysts. <b>2018</b> , 8, 1801257	157
536	High-Performance and Lightweight Thermal Management Devices by 3D Printing and Assembly of Continuous Carbon Nanotube Sheets. <b>2018</b> , 10, 27171-27177	17
535	Recent progress in nanostructured magnetic framework composites (MFCs): Synthesis and applications. <b>2018</b> , 91, 653-677	37
534	Ultrafast Facile One Pot Synthesis of Meso-Tetraphenyl-Porphinatoâtu(II) Metalâtorganic Frameworks (MOFs) for CO2 Capture. <b>2018</b> , 28, 2865-2870	8
533	Nanoskalige anorganische Energiematerialien aus molekularen Vorstufen bei tiefer Temperatur. <b>2018</b> , 130, 11298-11308	15
532	Nano-Sized Inorganic Energy-Materials by the Low-Temperature Molecular Precursor Approach. <b>2018</b> , 57, 11130-11139	50
531	Green Synthesis and Photogenerated Charge Carriers Transfer in SnO2 QDs Decorated rGO Nanosheets for Highly Efficient Visible Light Photocatalysis. <b>2018</b> , 28, 1664-1670	6
530	Synthesis chemistry of metal-organic frameworks for CO2 capture and conversion for sustainable energy future. <b>2018</b> , 92, 570-607	66
529	New Progress of Microporous MetalâDrganic Frameworks in CO2 Capture and Separation. 2018, 112-179	1
528	Metal-organic frameworks, NH-MIL-88(Fe), as carriers for ophthalmic delivery of brimonidine. <b>2018</b> , 79, 344-353	30
527	Solvothermal Reduction of Graphite Oxide Using Alcohols. <b>2018</b> , 21,	13
526	Passing it up the ranks: hierarchical ion-size dependent supramolecular response in 1D coordination polymers. <b>2018</b> , 20, 5127-5131	2
525	Lightweight and nitrogen-doped graphene nanoribbons with tunable hierarchical structure for high performance electromagnetic wave absorption. <b>2018</b> , 44, 20259-20266	16
524	Evaluation of the BET Theory for the Characterization of Meso and Microporous MOFs. <b>2018</b> , 2, 1800173	114
523	Assembly of Two Metal-Organic Frameworks Based on Distinct Cobalt Dimeric Building Blocks Induced by Ligand Modification: Gas Adsorption and Magnetic Properties. <b>2018</b> , 57, 10401-10409	22
522	High strength and ductility of graphene-like carbon nanosheet/copper composites fabricated directly from commercial oleic acid coated copper powders. <b>2018</b> , 10, 16990-16995	20

521	Coordination polymers based on µ2[1]:[1] and µ2[1]:[2] bridging mode of pyridyl carboxylate: ionic liquid-induced hydrothermal synthesis, structural and thermogravimetric analysis. <b>2018</b> , 15, 2315-2324	2
520	Light harvesting and charge management by NiS modified metal-organic frameworks and rGO in the process of photocatalysis. <b>2018</b> , 529, 44-52	48
519	Preparation of 2D material dispersions and their applications. <b>2018</b> , 47, 6224-6266	291
518	Functionalized graphene. <b>2018</b> , 545-584	3
517	Solvent-induced structural transformation and magnetic modulation in 1D copper(II) polymers based on a semi-rigid ligand containing 4-amino-1,2,4-triazole. <b>2018</b> , 20, 3955-3959	11
516	Structured Growth of Metal-Organic Framework MIL-53(Al) from Solid Aluminum Carbide Precursor. <b>2018</b> , 140, 9148-9153	28
515	Fluorescence properties of the amyloid indicator dye thioflavin T in constrained environments. <b>2019</b> , 160, 64-70	7
514	Pt-Re/rGO bimetallic catalyst for highly selective hydrogenation of cinnamaldehyde to cinnamylalcohol. <b>2019</b> , 27, 369-378	10
513	Synthesis of graphene oxide/polyacrylamide composite membranes for organic dyes/water separation in water purification. <b>2019</b> , 54, 252-264	46
512	Multivariate Metal-Organic Frameworks for the Simultaneous Capture of Organic and Inorganic Contaminants from Water. <b>2019</b> , 141, 13601-13609	66
511	2D Crystal-Based Fibers: Status and Challenges. <b>2019</b> , 15, e1902691	26
510	Substituents Effects of Organic Linkers on Rotational Energy Barriers in Metal-Organic Frameworks. <b>2019</b> , 4, 8584-8592	10
509	In situ formed oxy/hydroxide antennas accelerating the water dissociation kinetics on a Co@N-doped carbon core-shell assembly for hydrogen production in alkaline solution. <b>2019</b> , 48, 11927-11933	4
508	Rational Synthesis of Mixed-Metal Microporous Metalâ©rganic Frameworks with Controlled Composition Using Mechanochemistry. <b>2019</b> , 31, 5494-5501	49
507	The Effect of Ion Irradiation Induced Defects on Mechanical Properties of Graphene/Copper Layered Nanocomposites. <b>2019</b> , 9, 733	8
506	Heparin-Mediated Growth of Self-Organized ZnO Quasi-Microspheres with Twinned Donut-Like Hierarchical Structures. <b>2019</b> , 4, 7805-7810	1
505	An insight into clustering of halogenated anesthetics molecules in metal-organic frameworks: Evidence of adsorbate self-association in micropores. <b>2019</b> , 554, 463-467	1
504	Two Novel Lanthanide Metal-Organic Frameworks Constructed by Tetracarboxylate Ligands: Synthesis, Structures; and Luminescent Properties. <b>2019</b> , 645, 940-943	2

503	Biopolymer@Metal-Organic Framework Hybrid Materials: A Critical Survey. <b>2019</b> , 106, 100579	29
502	Co-encapsulation of enzyme and tricyanofuran hydrazone into alginate microcapsules incorporated onto cotton fabric as a biosensor for colorimetric recognition of urea. <b>2019</b> , 142, 199-206	41
501	Effect of defects on mechanical properties of graphene/copper/h-BN layered composites. 2019, 6, 095061	1
500	Study of Ultrasonic Dispersion of Graphene Nanoplatelets. <b>2019</b> , 12,	15
499	A novel MnO2/rGO composite prepared by electrodeposition as a non-noble metal electrocatalyst for ORR. <b>2019</b> , 49, 767-777	14
498	Synthesis and Characterization of Zn-Carboxylate MetalâDrganic Frameworks Containing Triazatruxene Ligands. <b>2019</b> , 72, 786	3
497	In situ formed [M(CN)9] (M = W, Mo) as a building block for the construction of two nona-cyanometalate-bridged heterometallic coordination polymers. <b>2019</b> , 21, 4363-4372	Ο
496	Development of a Biosensor Based on Graphene for Detection of Physiological Signals. <b>2019</b> , 2019, 1131-113	34
495	Investigation of Ionic Liquid interaction with ZnBDC-Metal Organic Framework through Scanning EXAFS and Inelastic Neutron Scattering. <b>2019</b> , 9, 14741	7
494	Superior photocatalytic dye degradation under visible light by reduced graphene oxide laminated TiO2-B nanowire composite. <b>2019</b> , 7, 103358	22
493	Graphene Functionalization Strategies. 2019,	2
492	Thermal Engineering of Metal-Organic Frameworks for Adsorption Applications: A Molecular Simulation Perspective. <b>2019</b> , 11, 38697-38707	23
491	Mixed matrix membranes incorporated with sonication-assisted ZIF-8 nanofillers for hazardous wastewater treatment. <b>2019</b> , 26, 35913-35923	5
490	Self-Assembled Thin Films of Graphene Materials for Sensors. <b>2019</b> , 569-602	
489	Chlorophyll and Graphene: A New Paradigm of Biomimetic Symphony. <b>2019</b> , 295-322	
488	. 2019,	2
487	New Synthetic Route for the Growth of FeOOH/NH-Mil-101 Films on Copper Foil for High Surface Area Electrodes. <b>2019</b> , 4, 18495-18501	5
486	MetalâDrganic Frameworks for Photocatalytic Environmental Remediation. <b>2019</b> , 309-341	3

485	Graphene Nano Sheet Fabrication Using Light. <b>2019</b> , 7, 1094-1099	1
484	Recent progress in two-dimensional nanomaterials: Synthesis, engineering, and applications. <b>2019</b> , 18, 100133	33
483	Direct Syntheses of Nanocages and Frameworks Based on Anderson-Type Polyoxometalates via One-Pot Reactions. <b>2019</b> , 58, 11988-11992	8
482	Impact of H2O and CO2 on methane storage in metalâBrganic frameworks. <b>2019</b> , 25, 1633-1642	6
481	Charge-transfer interactions between fullerenes and a mesoporous tetrathiafulvalene-based metal-organic framework. <b>2019</b> , 10, 1883-1893	18
480	Mining predicted crystal structure landscapes with high throughput crystallisation: old molecules, new insights. <b>2019</b> , 10, 9988-9997	36
479	Geometry Mismatch and Reticular Chemistry: Strategies To Assemble Metal-Organic Frameworks with Non-default Topologies. <b>2019</b> , 141, 16517-16538	57
478	Metal-organic frameworks as materials for applications in sensors. <b>2019</b> , 29, 361-368	22
477	Gas Sorption Properties of a New Three-Dimensional In-ABDC MOF With a Diamond Net. <b>2019</b> , 6,	3
476	Investigation of Methane Adsorption in Strained IRMOF-1. <b>2019</b> , 123, 24592-24597	4
475	Influence of the synthesis method on electrical storage capacity of graphene-related materials. <b>2019</b> , 35, 361-367	2
474	APTES Modified GO-PEI-Er3+/Yb3+: NaYF4 Upconverting Nanoparticles Hybrid Film-Based Optical pH Sensor and NIR Photoelectric Response. <b>2019</b> , 19, 3609-3615	5
473	Empirical modeling of material composition and size in MOFs prepared with ligand mixtures. <b>2019</b> , 48, 2881-2885	0
472	Flexible cellulose nanofibril/pristine graphene nanocomposite films with high electrical conductivity. <b>2019</b> , 119, 119-126	20
47 <sup>1</sup>	Recent advances and opportunities in the treatment of hydrocarbons and oils: Metal-organic frameworks-based approaches. <b>2019</b> , 49, 587-654	9
470	Graphite to Graphene: Green Synthesis Using Opuntia ficus-indica. <b>2019</b> , 48, 1553-1561	5
469	MOF-derived nanoporous multifunctional fillers enhancing the performances of polymer electrolytes for solid-state lithium batteries. <b>2019</b> , 7, 2653-2659	95
468	. 2019,	239

467 Porous Coordination Polymers. **2019**, 181-223

466	Review on Carbon/Polyaniline Hybrids: Design and Synthesis for Supercapacitor. <b>2019</b> , 24,	62
465	Molecular simulations on CO2 adsorption and adsorptive separation in fullerene impregnated MOF-177, MOF-180 and MOF-200. <b>2019</b> , 168, 58-64	20
464	Method of ultrasound-assisted liquid-phase exfoliation to prepare graphene. <b>2019</b> , 58, 104630	38
463	Phosphotungstic acid grafted zeolite imidazolate framework as an effective heterogeneous nanocatalyst for the one-pot solvent-free synthesis of 3,4-dihydropyrimidinones. <b>2019</b> , 33, e4959	14
462	MetalâDrganic Frameworks as Porous Templates for Enhanced Cobalt Oxide Electrocatalyst Performance. <b>2019</b> , 2, 3306-3313	2
461	Photochromic Lanthanide(III) Materials with Ion Sensing Based on Pyridinium Tetrazolate Zwitterion. <b>2019</b> , 4, 7492-7497	7
460	Surfactants as promising media in the field of metal-organic frameworks. <b>2019</b> , 391, 30-43	201
459	H2S adsorption on NaY zeolite. <b>2019</b> , 284, 247-257	27
458	Methane Storage on Metal-Organic Frameworks. <b>2019</b> , 227-253	3
457	Microporous Organic Polymer Nanocomposites for Adsorption Applications. <b>2019</b> , 25-47	1
456	Theoretical study of heterofullerene-linked metalâBrganic framework with lithium doping for CO2 capture and separation from CO2/CH4 and CO2/H2 mixtures. <b>2019</b> , 284, 385-392	10
455	100 MeV O7+ ion irradiation induced electrochemical enhancement in NiBTC metal-organic framework based composite polymer electrolytes incorporated with ionic liquid. <b>2019</b> , 6, 085305	2
454	Nanoporous Materials for Gas Storage. <b>2019</b> ,	9
453	figstrom-Scale, Atomically Thin 2D Materials for Corrosion Mitigation and Passivation. <b>2019</b> , 9, 133	15
452	Postfunctionalized Metalloligand-Based Catenated Coordination Polymers: Syntheses, Structures, and Effect of Labile Sites on Catalysis. <b>2019</b> , 19, 2723-2735	4
451	MetalâBrganic frameworks with multicomponents in order. <b>2019</b> , 388, 107-125	46
450	Advantaging Synergy Photocatalysis with Graphene-Related Carbon as a Counterpart Player of Titania. <b>2019</b> , 19, 1393-1406	7

449	Preparation and Characteristics of Ethylene Bis(Stearamide)-Based Graphene-Modified Asphalt. <b>2019</b> , 12,	10
448	Trace Benzene Separation from Vinyl Acetate: A Multiscale Simulation Study. <b>2019</b> , 58, 6662-6669	1
447	Detection of Physiological Signals Based on Graphene Using a Simple and Low-Cost Method. <b>2019</b> , 19,	7
446	Hydrogen and Methane Storage in MOFs. <b>2019</b> , 339-363	
445	Determination and Design of Porosity. <b>2019</b> , 29-56	1
444	Al2O3/WB2 composite ceramic tool material reinforced with graphene oxide self-assembly coated silicon nitride. <b>2019</b> , 81, 173-182	4
443	Production of Materials from Sustainable Biomass Resources. 2019,	2
442	Carbonaceous Catalysts from Biomass. <b>2019</b> , 185-231	1
441	Changing the Hydrophobic MOF Pores through Encapsulating Fullerene C60 and Metallofullerene Sc3C2@C80. <b>2019</b> , 123, 6265-6269	11
440	Analysis of Chemical Structure of Reduced Graphite Oxide Synthesized in Different Reduction Atmospheres. <b>2019</b> , 4, 1745-1752	1
439	Multivariate crystalline porous materials: Synthesis, property and potential application. <b>2019</b> , 385, 174-190	42
438	Metal-organic Framework Sponges. <b>2019</b> , 59-121	
437	Metal-Organic Gels Derived from Iron(III) and Pyridine Ligands: Morphology, Self-Healing and Catalysis for Ethylene Selective Dimerization. <b>2019</b> , 14, 1582-1589	7
436	Numerical study of the electrochemical exfoliation of graphite. <b>2019</b> , 1, 1	6
435	Study of a saturation point to establish the doping density limit of silicon with graphene oxide. <b>2019</b> , 96, 116-121	3
434	Boron-neutron Capture on Activated Carbon for Hydrogen Storage. <b>2019</b> , 9, 2971	8
433	Cage Based Crystalline Covalent Organic Frameworks. <b>2019</b> , 141, 3843-3848	45
432	Metal-organic framework based membranes for gas separation. <b>2019</b> , 203-226	2

431	A Recyclable Heterogeneous Palladium Catalyst Anchored to Modified Metal-Organic Framework for Hydrogenation of Styrene Oxide. <b>2019</b> , 55, 1946-1950	1
430	Direct Growth on Si(100) of Isolated Octahedral Mil-101(Fe) Crystals for the Separation of Aromatic Vapors. <b>2019</b> , 123, 28836-28845	8
429	Pressure-induced metallicity and piezoreductive transition of metal-centres in conductive 2-dimensional metal-organic frameworks. <b>2019</b> , 21, 25773-25778	7
428	Recent advances in two-dimensional materials and their nanocomposites in sustainable energy conversion applications. <b>2019</b> , 11, 21622-21678	109
427	Solvation of Pristine Graphene Using Amino Acids: A Molecular Simulation and Experimental Analysis. <b>2019</b> , 123, 30234-30244	6
426	Fluorescence Method for the Detection of Protein Kinase Activity by Using a Zirconium-Based Metal-Organic Framework as an Affinity Probe <b>2019</b> , 2, 6021-6028	4
425	Interaction and thermal studies on graphene oxide in NC/DEGDN/GO nanocomposites <b>2019</b> , 9, 35158-35164	5
424	Construction of novel Ag/HKUST-1/g-CN towards enhanced photocatalytic activity for the degradation of pollutants under visible light <b>2019</b> , 9, 41591-41602	8
423	Preparation and hydrogen storage of Pd/MIL-101 nanocomposites. <b>2019</b> , 772, 186-192	37
422	Effect of temperature on the friction and wear properties of graphene nano-platelets as lubricant additive on Al-25Si alloy. <b>2019</b> , 6, 046513	8
421	MetalâDrganic Frameworks in Dye-Sensitized Solar Cells. <b>2019</b> , 175-219	5
420	Coastal Wetlands: A Synthesis. <b>2019</b> , 1-75	5
419	Guest-Triggered Aggregation-Induced Emission in Silver Chalcogenolate Cluster Metal-Organic Frameworks. <b>2019</b> , 6, 1801304	85
418	MetalâBrganic frameworks in Germany: From synthesis to function. <b>2019</b> , 380, 378-418	65
417	First-Principles Study of the Reaction between Fluorinated Graphene and Ethylenediamine. <b>2019</b> , 24,	
416	Post-synthetic platinum complex modification of a triazine based metal organic frameworks for enhanced photocatalytic H2 evolution. <b>2019</b> , 271, 260-265	8
415	Mechanically fabricated MetalâBrganic framework/resin composite nanoparticles for efficient basic catalysis. <b>2019</b> , 33, e4788	4
414	NiCo2O4@Ni(BDC) Nano-Porous MetalâDrganic Framework as a Novel Catalyst for the Synthesis of Spiro[indene[1,2-d]pyrimidine-ones and Investigation of Their Antimicrobial Activities. <b>2019</b> , 4, 729-736	18

413	Porous Coordination Polymers. <b>2019</b> , 1-44	2
412	Studying the reduction of graphene oxide with magnetic measurements. <b>2019</b> , 142, 373-378	22
411	Direct synthesis of highly crystalline single-phase hexagonal tungsten oxide nanorods by spray pyrolysis. <b>2019</b> , 30, 6-12	23
410	GrapheneâMetal Modified Electrochemical Sensors. <b>2019</b> , 89-111	О
409	Copper complex with N-,O- architecture grafted graphene oxide nanosheet as a heterogeneous catalyst for Suzuki cross coupling reaction. <b>2019</b> , 95, 643-651	14
408	Advanced Electrocatalytic Performance of Ni-Based Materials for Oxygen Evolution Reaction. <b>2019</b> , 7, 341-349	27
407	Unique T-Shaped Ligand as a New Platform for MetalâDrganic Frameworks. <b>2019</b> , 19, 430-436	10
406	Amide-functionalized metalâBrganic frameworks: Syntheses, structures and improved gas storage and separation properties. <b>2019</b> , 378, 2-16	163
405	An investigation of paddle wheel Cu2(🛛-O2CCH3)4 for gas molecule adsorptions. <b>2020</b> , 118, e1612956	2
404	State of the Art and Prospects in Metal-Organic Framework (MOF)-Based and MOF-Derived Nanocatalysis. <b>2020</b> , 120, 1438-1511	727
404		727 7
	Nanocatalysis. <b>2020</b> , 120, 1438-1511	
403	Nanocatalysis. <b>2020</b> , 120, 1438-1511  Manufacturing Nanoporous Materials for Energy-Efficient Separations. <b>2020</b> , 33-81	
403	Nanocatalysis. 2020, 120, 1438-1511  Manufacturing Nanoporous Materials for Energy-Efficient Separations. 2020, 33-81  Porous Materials for Catalysis. 2020, 115-137	7
403 402 401	Nanocatalysis. 2020, 120, 1438-1511  Manufacturing Nanoporous Materials for Energy-Efficient Separations. 2020, 33-81  Porous Materials for Catalysis. 2020, 115-137  New insights into the mechanism of graphene oxide and radionuclide interaction. 2020, 158, 291-302  Synthesis and effect of metalâBrganic frame works on CO2 adsorption capacity at various	7 7 17
403 402 401 400	Manufacturing Nanoporous Materials for Energy-Efficient Separations. 2020, 33-81  Porous Materials for Catalysis. 2020, 115-137  New insights into the mechanism of graphene oxide and radionuclide interaction. 2020, 158, 291-302  Synthesis and effect of metalâBrganic frame works on CO2 adsorption capacity at various pressures: A contemplating review. 2020, 31, 367-388  A Review of the Graphene Synthesis Routes and its Applications in Electrochemical Energy Storage.	7 7 17
403 402 401 400 399	Manufacturing Nanoporous Materials for Energy-Efficient Separations. 2020, 33-81  Porous Materials for Catalysis. 2020, 115-137  New insights into the mechanism of graphene oxide and radionuclide interaction. 2020, 158, 291-302  Synthesis and effect of metalâBrganic frame works on CO2 adsorption capacity at various pressures: A contemplating review. 2020, 31, 367-388  A Review of the Graphene Synthesis Routes and its Applications in Electrochemical Energy Storage. 2020, 45, 339-377  Polyoxoanion and secondary ligand spacer control of silver aggregates in Ag-imidazole-polyoxotungstate hybrids: From {Ag2} and {Ag4} clusters to infinite {Agâ} chains.	7 7 17 14 28

395	Does repeat synthesis in materials chemistry obey a power law?. <b>2020</b> , 117, 877-882	23
394	Metal-organic frameworks for stimuli-responsive drug delivery. <b>2020</b> , 230, 119619	183
393	Microporous Metal-Organic Framework Materials for Gas Separation. <b>2020</b> , 6, 337-363	234
392	Simultaneous Unlocking Optoelectronic and Interfacial Properties of C for Ultrasensitive Immunosensing by Coupling to Metal-Organic Framework. <b>2020</b> , 92, 983-990	33
391	Superprotonic conductivity of Ti-based MOFs with Brflisted acidâ <b>B</b> ase pairs. <b>2020</b> , 502, 119317	7
390	Mg-MOF-74/Polyvinyl acetate (PVAc) mixed matrix membranes for CO2 separation. <b>2020</b> , 238, 116411	32
389	Virtual Screening of Materials for Carbon Capture. <b>2020</b> , 117-151	2
388	Ti4(embonate)6 Based Cage-Cluster Construction in a Stable MetalâDrganic Framework for Gas Sorption and Separation. <b>2020</b> , 20, 29-32	15
387	Stable zinc metal-organic framework materials constructed by fluorenone carboxylate ligand: Multifunction detection and photocatalysis property. <b>2020</b> , 282, 121125	12
386	Synthesis of Metal-Organic Framework Cr-MIL-101 by a 4-Nitroimidazole-Assistant Route. <b>2020</b> , 15, 2050146	
385	Reduction Self-Assembly of Three-Dimensional Graphene Hydrogels: Implication as Adsorbents. <b>2020</b> , 3, 10823-10834	1
384		
<i>J</i> ° <del>4</del>	Nanoconfinement effects on structural anomalies in imidazolium ionic liquids. <b>2020</b> , 12, 23480-23487	11
383	Nanoconfinement effects on structural anomalies in imidazolium ionic liquids. 2020, 12, 23480-23487  Structure and electrochemical performance of electrospun-ordered porous carbon/graphene composite nanofibers. 2020, 11, 1280-1290	11
	Structure and electrochemical performance of electrospun-ordered porous carbon/graphene	
383	Structure and electrochemical performance of electrospun-ordered porous carbon/graphene composite nanofibers. <b>2020</b> , 11, 1280-1290  Trimetal-based N-doped carbon nanotubes arrays on Ni foams as self-supported electrodes for	1
383	Structure and electrochemical performance of electrospun-ordered porous carbon/graphene composite nanofibers. <b>2020</b> , 11, 1280-1290  Trimetal-based N-doped carbon nanotubes arrays on Ni foams as self-supported electrodes for hydrogen/oxygen evolution reactions and water splitting. <b>2020</b> , 480, 228866	1 22
383 382 381	Structure and electrochemical performance of electrospun-ordered porous carbon/graphene composite nanofibers. 2020, 11, 1280-1290  Trimetal-based N-doped carbon nanotubes arrays on Ni foams as self-supported electrodes for hydrogen/oxygen evolution reactions and water splitting. 2020, 480, 228866  Growth of faceted pores in a multi-component crystal by applying mechanical stress. 2020, 22, 5280-5288  Size-selective encapsulation of metallofullerenes by [12]Cycloparaphenylene and dissociation using	22

377	Catalytic Degradation of Nerve Agents. <b>2020</b> , 10, 881	12
376	Equi-size nesting of Platonic and Archimedean metal-organic polyhedra into a twin capsid. <b>2020</b> , 11, 4103	9
375	Carbon Anode in Carbon History. <b>2020</b> , 25,	2
374	Application of Metal-Organic Frameworks and Covalent Organic Frameworks as (Photo)Active Material in Hybrid Photovoltaic Technologies. <b>2020</b> , 13, 5602	8
373	Isoreticular Design of Two Novel Metal Organic Frameworks and Their Single-Crystal-to-Single-Crystal Solvent Exchange Properties. <b>2020</b> , 20, 7822-7832	2
372	Rational design and synthesis of ultramicroporous metal-organic frameworks for gas separation. <b>2020</b> , 423, 213485	61
371	Study on the adsorption properties of metalâBrganic frameworks (PCN-228âДPCN-230). <b>2020</b> , 1-7	0
370	Rapid glucose detection using graphene oxide modified foam nickel electrode with optimized basic solution. <b>2020</b> , 23, 1506-1517	
369	Variation of the Curie Temperature in Porous Materials. <b>2020</b> , 46, 680-682	1
368	Polyethylene: grapheneâ magnetic tunable metacomposite. <b>2020</b> , 31, 18344-18359	1
367	A Zinc(II) Coordination Polymer Based on a Chain of {Zn2O7} Bitetrahedra Bridged by 3-Methoxybenzoates. <b>2020</b> , 5, 9820-9824	1
366	Tunable Fulleretic Sodalite MOFs: Highly Efficient and Controllable Entrapment of C60 Fullerene via Mechanochemistry. <b>2020</b> , 32, 10628-10640	12
365	Heat of Adsorption: A Comparative Study between the Experimental Determination and Theoretical Models Using the System CH4-MOFs. <b>2020</b> , 65, 3130-3145	4
364	Deposition of MOFs on Polydopamine-Modified Electrospun Polyvinyl Alcohol/Silica Nanofibers Mats for Chloramphenicol Adsorption in Water. <b>2020</b> , 15, 2050046	9
363	Advanced Properties and Applications of AIEgens-Inspired Smart Materials. 2020, 59, 10721-10736	18
362	Nanoscale coordination polymers: Preparation, function and application. <b>2020</b> , 33-72	6
361	High C2 hydrocarbons capture and selective C2/C1 separation in A Tb(III)-organic framework. <b>2020</b> , 287, 121345	7
360	Dipicolinamide and isophthalamide based fluorescent chemosensors: recognition and detection of assorted analytes. <b>2020</b> , 49, 9544-9555	12

## (2020-2020)

359	Measuring Open Porosity of Porous Materials Using THz-TDS and an Index-Matching Medium. <b>2020</b> , 20,	5
358	Functional metalâBrganic frameworks constructed from triphenylamine-based polycarboxylate ligands. <b>2020</b> , 420, 213354	39
357	Recent advances in the shaping of metalâBrganic frameworks. <b>2020</b> , 7, 2840-2866	36
356	Graphene Oxide Nanofiltration Membranes Containing Silver Nanoparticles: Tuning Separation Efficiency via Nanoparticle Size. <b>2020</b> , 10,	18
355	Chemical properties and applications. <b>2020</b> , 251-371	
354	High efficiency heat transfer and antifriction characteristics of SMWCNTs nanofluids. <b>2020</b> , 105, 107792	2
353	Secondary building units of MOFs. <b>2020</b> , 11-44	2
352	Postsynthetic modification of MOFs for biomedical applications. <b>2020</b> , 245-276	1
351	A dual emission metal-organic framework for rapid ratiometric fluorescence detection of CO in seawater <b>2020</b> , 10, 24764-24771	1
350	Process-level modelling and optimization to evaluate metalâBrganic frameworks for post-combustion capture of CO2. <b>2020</b> , 5, 1205-1218	17
349	Carbonization temperature effects on adsorption performance of metal-organic framework derived nanoporous carbon for removal of methylene blue from wastewater; experimental and spectrometry study. <b>2020</b> , 108, 107999	17
348	Theoretical study of two-dimensional bis(iminothiolato)metal monolayers as promising electrocatalysts for carbon dioxide reduction. <b>2020</b> , 44, 12299-12306	7
347	One-Step Encapsulation of Bimetallic Pdâllo Nanoparticles Within UiO-66 for Selective Conversion of Furfural to Cyclopentanone. <b>2020</b> , 150, 2158-2166	8
346	Surface-Modified Graphite Nanoplatelets To Enhance Cement Sheath Durability. <b>2020</b> , 35, 452-464	3
345	Rational modulating electronegativity of substituents in amorphous metal-organic frameworks for water oxidation catalysis. <b>2020</b> , 45, 9723-9732	10
344	Polycarbonate Microchip Containing CuBTC-Monopol Monolith for Solid-Phase Extraction of Dyes. <b>2020</b> , 2020, 8548927	2
343	. 2020,	2
342	Facile construction of superhydrophobic hybrids of metal-organic framework grown on nanosheet for high-performance extraction of benzene homologues. <b>2020</b> , 211, 120706	7

341	MOF Materials for the Capture of Highly Toxic H2S and SO2. <b>2020</b> , 39, 883-915	60
340	Insights into the Gas Adsorption Mechanisms in Metal-Organic Frameworks from Classical Molecular Simulations. <b>2020</b> , 378, 14	7
339	A Robust Aluminum Metal-Organic Framework with Temperature-Induced Breathing Effect. <b>2020</b> , 2, 220-226	5
338	Facile graft copolymer template synthesis of mesoporous polymeric metal-organic frameworks to produce mesoporous TiO2: Promising platforms for photovoltaic and photocatalytic applications. <b>2020</b> , 84, 384-392	13
337	Analysis of Research Status of CO2 Conversion Technology Based on Bibliometrics. <b>2020</b> , 10, 370	11
336	Methane Adsorption Properties of Mn-Modified Graphene: A First-Principles Study. <b>2020</b> , 3, 2000035	7
335	Graphene-supported metal single-atom catalysts: a concise review. <b>2020</b> , 63, 903-920	38
334	Three new cobalt(II) coordination polymers based on 1,3-bis(4-pyridyl)propane: Syntheses, structures and magnetic properties. <b>2020</b> , 116, 107912	O
333	Absorption of atomic and molecular species in carbon cellular structures (Review article). 2020, 46, 219-231	3
332	Search for the shortest intermetallic TlTl contacts: Synthesis and characterization of Thallium(I) coordination polymers with several mono- and bis-cyanoximes. <b>2020</b> , 508, 119597	O
331	Metal-organic frameworks for photocatalytic degradation of pollutants. <b>2020</b> , 91-126	3
330	Three-dimensional Co/Ni bimetallic organic frameworks for high-efficient catalytic ozonation of atrazine: Mechanism, effect parameters, and degradation pathways analysis. <b>2020</b> , 253, 126767	25
329	MetalâBrganic frameworks and their catalytic applications. <b>2020</b> , 24, 461-473	31
328	Three isostructural Zn/Ni nitro-containing metal-organic frameworks for supercapacitor. <b>2020</b> , 288, 121375	10
327	Design and synthesis of photoluminescent active interpenetrating metal-organic frameworks using N-2-aryl-1,2,3-triazole ligands. <b>2020</b> , 49, 5429-5433	4
326	Atomic Vacancy Defect, Frenkel Defect and Transition Metals (Sc, V, Zr) Doping in Ti4N3 MXene Nanosheet: A First-Principles Investigation. <b>2020</b> , 10, 2450	4
325	Metal-Organic Framework-Based Engineered Materials-Fundamentals and Applications. 2020, 25,	32
324	Metal-organic layers as reusable solid fluorination reagents and heterogeneous catalysts for aromatic fluorination. <b>2021</b> , 14, 473-478	9

323	Reticular exploration of uranium-based metalâBrganic frameworks with hexacarboxylate building units. <b>2021</b> , 14, 376-380	14
322	Metal-Organic Framework-Encapsulated CoCu Nanoparticles for the Selective Transfer Hydrogenation of Nitrobenzaldehydes: Engineering Active Armor by the Half-Way Injection Method. <b>2021</b> , 27, 1080-1087	4
321	Adsorptive removal of hazardous organics from water and fuel with functionalized metal-organic frameworks: Contribution of functional groups. <b>2021</b> , 403, 123655	57
320	Ammonia synthesis over lanthanoid oxideâBupported ruthenium catalysts. <b>2021</b> , 376, 36-40	6
319	MetalâBrganic frameworks based on multicarboxylate linkers. <b>2021</b> , 426, 213542	55
318	Photocatalytic nitrogen fixation: Oxygen vacancy modified novel micro-nanosheet structure BiOCO with band gap engineering. <b>2021</b> , 583, 499-509	37
317	The state of the field: from inception to commercialization of metal-organic frameworks. <b>2021</b> , 225, 9-69	22
316	BN-Doped Metal-Organic Frameworks: Tailoring 2D and 3D Porous Architectures through Molecular Editing of Borazines. <b>2021</b> , 27, 4124-4133	2
315	Identifying the Bottleneck for Heat Transport in MetalâDrganic Frameworks. <b>2021</b> , 4, 2000211	4
314	Reticular chemistry at the atomic, molecular, and framework scales. <b>2021</b> , 14, 335-337	4
313	Net, Excess, and Absolute Adsorption of N2, CH4, and CO2 on MetalâDrganic Frameworks of ZIF-8, MIL-101(Cr), and UiO-66 at 282âB61 K and up to 12 MPa. <b>2021</b> , 66, 404-414	3
312	Topological materials and topologically engineered materials: properties, synthesis, and applications for energy conversion and storage. <b>2021</b> , 9, 1297-1313	4
311	Rheological behaviors of cement pastes with multi-layer graphene. <b>2021</b> , 269, 121327	4
310	A sequential template strategy toward hierarchical hetero-metal phosphide hollow nanoboxes for electrocatalytic oxygen evolution. <b>2021</b> , 9, 3482-3491	7
	electrocatalytic oxygen evolution. 2021, 9, 3462-3491	
309	Chemistry and applications of s-block metaläßrganic frameworks. <b>2021</b> , 9, 3828-3854	16
		16 0
309	Chemistry and applications of s-block metalâBrganic frameworks. <b>2021</b> , 9, 3828-3854	

Nanoscavengers for the Waste Water Remediation. **2021**, 73-89

304	Entrapped Molecular Photocatalyst and Photosensitizer in Metalâ®rganic Framework Nanoreactors for Enhanced Solar CO2 Reduction. <b>2021</b> , 11, 871-882	26
303	Metal-Organic Frameworks Derived From Multitopic Ligands: Structural Aspects. <b>2021</b> , 1021-1054	
302	Microwave-Assisted Synthesis of Ge/GeO-Reduced Graphene Oxide Nanocomposite with Enhanced Discharge Capacity for Lithium-Ion Batteries. <b>2021</b> , 11,	8
301	Versatile Nanoscale Metal-Organic Frameworks (nMOFs): An Emerging 3D Nanoplatform for Drug Delivery and Therapeutic Applications. <b>2021</b> , 17, e2005064	23
<b>3</b> 00	Efficient metal-free supercapacitor based on graphene oxide derived from waste rice. <b>2021</b> , 4, 100075	5
299	A family of lanthanide metal-organic frameworks based on a redox-active tetrathiafulvalene-dicarboxylate ligand showing slow relaxation of magnetisation and electronic conductivity. <b>2021</b> , 50, 14714-14723	1
298	Stimuli-responsive metal-organic framework nanoparticles for controlled drug delivery and medical applications. <b>2021</b> , 50, 4541-4563	52
297	Solvent-free one pot synthesis of 1,2-dihydroquinolines from anilines and acetone catalysed by MOF-199. <b>2021</b> , 3, 100097	3
296	Advances in cellulose-metal organic framework composites: preparation and applications.	13
295	TECHNOLOGY AND APPLICATIONS OF GRAPHENE OXIDE MEMBRANES. <b>2021</b> , 28, 2140004	2
294	Graphene oxideâderium oxide hybrids for enhancement of mechanical properties and corrosion resistance of epoxy coatings. <b>2021</b> , 56, 10108-10123	12
293	Tuning the Conductivity of Hexa-Zirconium(IV) MetalâDrganic Frameworks by Encapsulating Heterofullerenes. <b>2021</b> , 33, 1182-1189	7
292	Recent Advances in the Engineering of Single-Atom Catalysts Through Metal-Organic Frameworks. <b>2021</b> , 379, 11	5
291	Effective Encapsulation of C60 by MetalâDrganic Frameworks with Polyamide Macrocyclic Linkers. <b>2021</b> , 133, 10909-10914	2
290	Fluorocarbon-Functionalized Superhydrophobic Metal-Organic Framework: Enhanced CO Uptake via Photoinduced Postsynthetic Modification. <b>2021</b> , 60, 3823-3833	5
289	A reticular chemistry guide for the design of periodic solids. <b>2021</b> , 6, 466-487	36
288	Aptamer-functionalized metal-organic frameworks (MOFs) for biosensing. <b>2021</b> , 176, 112947	42

## (2021-2021)

287	Adsorption and separation of hexane isomers in metal-organic frameworks (MOFs): A computational study. <b>2021</b> , 1197, 113164	2
286	Defective Hierarchical Pore Engineering of a Zn-Ni MOF by Labile Coordination Bonding Modulation. <b>2021</b> , 60, 5122-5130	5
285	Effective Encapsulation of C by Metal-Organic Frameworks with Polyamide Macrocyclic Linkers. <b>2021</b> , 60, 10814-10819	6
284	Post-cutting surface evaluation of the Cu foil substrate grown with single-layer graphene. <b>2021</b> , 1092, 012046	
283	Porous monoliths of 3D graphene for electric double-layer supercapacitors. <b>2021</b> , 3, 193-224	6
282	Hierarchical bismuth vanadate/reduced graphene oxide composite photocatalyst for hydrogen evolution and bisphenol A degradation. <b>2021</b> , 22, 100963	12
281	Enhanced functional properties of CeO2 modified graphene/epoxy nanocomposite coating through interface engineering. <b>2021</b> , 409, 126819	5
280	The Structures of MetalâDrganic Frameworks. <b>2021</b> , 283-309	
279	Hydroxylation methods for mesoporous silica and their impact on surface functionalisation. <b>2021</b> , 317, 110989	5
278	The Structures of MetalâDrganic Frameworks. <b>2021</b> , 342-389	
278 277	The Structures of MetalâDrganic Frameworks. <b>2021</b> , 342-389  The Structures of MetalâDrganic Frameworks. <b>2021</b> , 309-389	
		18
277	The Structures of MetalâØrganic Frameworks. <b>2021</b> , 309-389	18 5
<sup>2</sup> 77	The Structures of MetalâDrganic Frameworks. 2021, 309-389  Porosity Engineering of MOF-Based Materials for Electrochemical Energy Storage. 2021, 11, 2100154	
<sup>2</sup> 77 <sup>2</sup> 76 <sup>2</sup> 75	The Structures of MetalâDrganic Frameworks. 2021, 309-389  Porosity Engineering of MOF-Based Materials for Electrochemical Energy Storage. 2021, 11, 2100154  Montmorillonite-Based Two-Dimensional Nanocomposites: Preparation and Applications. 2021, 26,  Research progress of surface-modified graphene-based materials for tribological applications. 2021	5
277 276 275	The Structures of MetalâDrganic Frameworks. 2021, 309-389  Porosity Engineering of MOF-Based Materials for Electrochemical Energy Storage. 2021, 11, 2100154  Montmorillonite-Based Two-Dimensional Nanocomposites: Preparation and Applications. 2021, 26,  Research progress of surface-modified graphene-based materials for tribological applications. 2021, 8, 042002  MetalâDrganic Frameworks as Heterogeneous Electrocatalysts for Water Splitting and CO2	5
277 276 275 274 273	The Structures of MetalâDrganic Frameworks. 2021, 309-389  Porosity Engineering of MOF-Based Materials for Electrochemical Energy Storage. 2021, 11, 2100154  Montmorillonite-Based Two-Dimensional Nanocomposites: Preparation and Applications. 2021, 26,  Research progress of surface-modified graphene-based materials for tribological applications. 2021, 8, 042002  MetalâDrganic Frameworks as Heterogeneous Electrocatalysts for Water Splitting and CO2 Fixation. 2021, 21, 3123-3142	5 1 12

269	Hollow POM@MOF-derived Porous NiMo @Co O for Biothiol Colorimetric Detection. 2021, 27, 9141-9151	4
268	Molecular Surgery at Microporous MOF for Mesopore Generation and Renovation. <b>2021</b> , 133, 14722-14729	2
267	Coordination Behavior of [Cp?Zr(µ-As)] towards Lewis Acids. <b>2021</b> , 26,	
266	Molecular Surgery at Microporous MOF for Mesopore Generation and Renovation. <b>2021</b> , 60, 14601-14608	11
265	Effect of Substrate Types on the Structure of Vertical Graphene Prepared by Plasma-Enhanced Chemical Vapor Deposition. <b>2021</b> , 11,	1
264	Molding fabrication of copper azide/porous graphene with high electrostatic safety by self-assembly of graphene oxide. <b>2021</b> , 32,	O
263	E Transfer (E=P, As) to Ni Complexes. <b>2021</b> , 27, 11649-11655	1
262	Mechanochemistry as a Reconstruction Tool of Decomposed Metal-Organic Frameworks. <b>2021</b> , 60, 11825-118	32 <del>9</del>
261	Fabrication of rGO/NiS/AuNCs ternary nanocomposite modified electrode for electrochemical sensing of Cr(VI) at utra-trace level. <b>2021</b> , 24, 101096	1
260	Porous metalâBrganic frameworks for methane storage and capture: status and challenges. <b>2021</b> , 36, 468-496	6
259	Strain and defect engineering of graphene for hydrogen storage via atomistic modelling. <b>2021</b> , 46, 22599-226	518)
258	Efficient electroreduction of CO2 by single-atom catalysts two-dimensional metal hexahydroxybenzene frameworks: A theoretical study. <b>2021</b> , 550, 149389	5
257	Recent Advances in Design and Fabrication of Nanocomposites for Electromagnetic Wave Shielding and Absorbing. <b>2021</b> , 14,	8
256	A Nanoporous Supramolecular Metal-Organic Framework Based on a Nucleotide: Interplay of the Interplay of the Interactions Directing Assembly and Geometric Matching of Aromatic Tails. <b>2021</b> , 26,	1
255	Frustrated flexibility in metal-organic frameworks. <b>2021</b> , 12, 4097	10
254	Visible-light photocatalysis over MIL-53(Fe) for VOC removal and viral inactivation in air. <b>2022</b> , 27, 210209-0	O
253	All-Carbon Negative Differential Resistance Nanodevice Using a Single Flake of Nanoporous Graphene. <b>2021</b> , 3, 3418-3427	6
252	Optimizing Hydrogen Storage in MOFs through Engineering of Crystal Morphology and Control of Crystal Size. <b>2021</b> , 143, 10727-10734	22

251	Viscosity and Rheological Properties of Graphene Nanopowders Nanofluids. 2021, 23,	6
250	Molding preparation and research on performance of low-electrostatic-sensitivity, high-output carbon-based copper azide based on metalâBrganic framework/graphene oxide. <b>2021</b> , 56, 15268-15277	3
249	Lateral size effect of reduced graphene oxide on properties of copper matrix composites. <b>2021</b> , 820, 141579	2
248	Developing Ideal Metalorganic Hydrides for Hydrogen Storage: From Theoretical Prediction to Rational Fabrication. <b>2021</b> , 3, 1417-1425	4
247	Interface construction for charge transportation of ZnO/graphene multilayer films. 2021, 14, 2150027	
246	First-Principles Study on Methane Adsorption Performance of Ti-Modified Porous Graphene. 2100168	2
245	ZnO/Ag/graphene transparent conductive oxide film with ultrathin Ag layer. 2021, 39, 052208	O
244	C2s/C1 hydrocarbon separation: The major step towards natural gas purification by metal-organic frameworks (MOFs). <b>2021</b> , 442, 213998	14
243	Hydrophobicity: a key factor en route to applications of metalâBrganic frameworks. 2021,	4
242	Designer Nanomaterials through Programmable Assembly.	3
241	Synthesis, structural, and DFT studies of mixed ligand copper(II) malonates. 2021, 133, 1	
241 240	Synthesis, structural, and DFT studies of mixed ligand copper(II) malonates. <b>2021</b> , 133, 1  Synthesis and characterization of iron oxide/MIL-101 composite via microwave solvothermal treatment. <b>2021</b> , 716, 121952	
·	Synthesis and characterization of iron oxide/MIL-101 composite via microwave solvothermal	3
240	Synthesis and characterization of iron oxide/MIL-101 composite via microwave solvothermal treatment. <b>2021</b> , 716, 121952	3
240	Synthesis and characterization of iron oxide/MIL-101 composite via microwave solvothermal treatment. 2021, 716, 121952  Designer Nanomaterials through Programmable Assembly. 2021,  Cold plasma-Metal Organic Framework (MOF)-177 breathable system for atmospheric remediation.	
240 239 238	Synthesis and characterization of iron oxide/MIL-101 composite via microwave solvothermal treatment. 2021, 716, 121952  Designer Nanomaterials through Programmable Assembly. 2021,  Cold plasma-Metal Organic Framework (MOF)-177 breathable system for atmospheric remediation. 2021, 51, 101642  Passive day and night heating for zero energy buildings with solar-based adsorption thermal	3
240 239 238 237	Synthesis and characterization of iron oxide/MIL-101 composite via microwave solvothermal treatment. 2021, 716, 121952  Designer Nanomaterials through Programmable Assembly. 2021,  Cold plasma-Metal Organic Framework (MOF)-177 breathable system for atmospheric remediation. 2021, 51, 101642  Passive day and night heating for zero energy buildings with solar-based adsorption thermal battery. 2021, 2, 100578	3

233	Nano-MOF-5 (Zn) Derived Porous Carbon as Support Electrocatalyst for Hydrogen Evolution Reaction. <b>2021</b> , 13, 4342	4
232	Strain-Controlled Spin Transition in Heterostructured Metal-Organic Framework Thin Film. <b>2021</b> , 143, 16128-16135	2
231	Metal-Organic Frameworks: from ambient green synthesis to applications.	6
230	Chiral metalâBrganic frameworks based on asymmetric synthetic strategies and applications. <b>2021</b> , 445, 214083	9
229	Metal-organic frameworks in cooling and water desalination: Synthesis and application. <b>2021</b> , 149, 111362	10
228	Metal organic framework based fluorescence sensor for detection of antibiotics. <b>2021</b> , 116, 1002-1028	7
227	Review on the utilisation of sensing materials for intrinsic optical NH3 gas sensors. <b>2021</b> , 280, 116860	2
226	Fabrication of multi-nanocavity and multi-reflection interface in rGO for enhanced EMI absorption and reduced EMI reflection. <b>2021</b> , 562, 150034	2
225	Rhombic dodecahedron hetero-structure Zn/CoâBe@C as cathode material for aluminum batteries with excellent electrochemical performance. <b>2021</b> , 511, 230455	2
224	Preparation of mixed matrix membranes made up of polysulfone and MIL-53(Al) nanoparticles as promising membranes for separation of aqueous dye solutions. <b>2021</b> , 274, 119033	12
223	Novel MOF-derived hollow CoFe alloy coupled with N-doped Ketjen Black as boosted bifunctional oxygen catalysts for Znaair batteries. <b>2022</b> , 427, 131614	7
222	Metal organic framework (MOF)-based micro/nanoscaled materials for heavy metal ions removal: The cutting-edge study on designs, synthesis, and applications. <b>2021</b> , 427, 213554	79
221	Tuning the electrochemical and catalytic ORR performance of C60 by its encapsulation in ZIF-8: a solid-state analogue of dilute fullerene solution.	O
220	Metal-Organic Frameworks: Synthetic Methods and Potential Applications. <b>2021</b> , 14,	24
219	Black phosphorene/blue phosphorene van der Waals heterostructure: a potential anode material for lithium-ion batteries. <b>2021</b> , 23, 17392-17401	1
218	Synthesis of metalâBrganic frameworks (MOFs) MIL-100(Fe) functionalized with thioglycolic acid and ethylenediamine for removal of eosin B dye from aqueous solution. <b>2021</b> , 3, 1	3
217	Fabrication and Functionalization Strategies of MOFs and Their Derived Materials âMOF Architectureâ (12020, 63-100)	3
216	Microporous Materials in Antibacterial Applications. <b>2017</b> , 171-188	3

## (2016-2009)

215	Supramolecular Chemistry of 4,4?-Bipyridine-N,N?-dioxide in Transition Metal Complexes: A Rich Diversity of Co-ordinate, Hydrogen-Bond and Aromatic Stacking Interactions. <b>2009</b> , 135-161	9
214	Porous Coordination Polymers Towards Gas Technology. <b>2009</b> , 51-86	15
213	Controllable Assembly, Structures, and Properties of Lanthanideâllransition Metalâlamino Acid Clusters. <b>2009</b> , 161-206	6
212	Cyclophane-Based Estacked Polymers. <b>2014</b> , 151-184	1
211	Prussian Blue and Other MetalâØrganic Framework-based Nanozymes. <b>2020</b> , 141-170	4
210	Fabrication of MOF-177 for electrochemical detection of toxic (hbox $\{Pb\}^{2+}$ ) and (hbox $\{Cd\}^{2+}$ ) ions. <b>2020</b> , 43, 1	9
209	Why Design Matters: From Decorated Metal Oxide Clusters to Functional Metal-Organic Frameworks. <b>2020</b> , 378, 19	6
208	Surface polarity estimation of metal-organic frameworks using liquid-phase mixture adsorption. <b>2017</b> , 251, 129-134	4
207	An amino-decorated porous metal-organic framework for efficient C2 hydrocarbon/CH4 separation and high iodine adsorption. <b>2020</b> , 305, 110306	8
206	Recent progress and remaining challenges in post-combustion CO2 capture using metal-organic frameworks (MOFs). <b>2020</b> , 80, 100849	114
205	Ab Initio Adsorption Isotherms for Molecules with Lateral Interactions: CO2 in MetalâDrganic Frameworks. <b>2017</b> , 121, 12789-12799	24
204	CHAPTER 7:Metal-Organic Frameworks as Chemical Sensors. <b>2015</b> , 192-245	2
203	Chapter 7:MetalâDrganic Frameworks (MOFs) as Potential Hybrid Ferroelectric Materials. <b>2019</b> , 197-244	2
202	Recent progress in graphene based polymer nanocomposites. <b>2020</b> , 6, 1833476	29
201	Bis(EN,N'-di-3-pyridyl-2,6-pyridine-2,6-dicarboxamide-N:N')bis[dibrom-ido-mercury(II)] N,N-dimethyl-formamide disolvate. <b>2008</b> , 64, m1263	3
200	Modeling Sorbate Equilibria and Transport in Porous Coordination Polymers. <b>2015</b> , 207-250	1
199	Research Progress on Application of Graphene and Its Composite Material. <b>2015</b> , 05, 62-71	2
198	Research Progress in Preparation Technology of Graphene. <b>2016</b> , 06, 346-360	1

197	The treatment of femoral neck fracture using VEGF-loaded nanographene coated internal fixation screws. <b>2017</b> , 12, e0187447	2
196	Graphene-Like Layers from Unconventional Carbon Sources: New Perspectives on Hybrid Materials and Exystem Synergisms. <b>2017</b> , 18, 263	2
195	A Novel Electrochemical Sensor Based on Electropolymerized Ion Imprinted PoPD/ERGO Composite for Trace Cd(II) Determination in Water. <b>2020</b> , 20,	11
194	Progress in Preparation of Graphene. <b>2011</b> , 26, 561-570	14
193	Epitaxial Growth of Graphene and Their Applications in Devices. <b>2011</b> , 26, 1009-1019	15
192	Studies on Synthesis and Properties of Porous Coordination Polymers. <b>2008</b> , 51, 13-19	4
191	Synthesis of Expanded Graphite-Titanium Oxide Composite and its Photocatalytic Performance. <b>2010</b> , 47, 210-215	3
190	Microwave Synthesis of a Porous Metal-Organic Framework, Zinc Terephthalate MOF-5. <b>2006</b> , 27, 1523-1524	72
189	Solvent Effect on the Nature of the Metallamacrocycles Formed: Formation of Octanuclear and Dodecanuclear Manganese Metalladiazamacrocycles. <b>2007</b> , 28, 2009-2014	5
188	Binding energy of H2to MOF-5: A Model Study. <b>2011</b> , 32, 4199-4204	2
187	A Series of 3D Lanthanide Complexes Containing (La(III), Sm(III) and Gd(III)) Metal-organic Frameworks: Synthesis, Structure, Characterization and Their Luminescent Properties. <b>2012</b> , 33, 3777-3787	3
186	Sorption behavior of slightly reduced, three-dimensionally macroporous graphene oxides for physical loading of oils and organic solvents. <b>2016</b> , 18, 24-29	1
185	Capability of CO2on Metal-Organic Frameworks-Based Porous Adsorbents and Their Challenges to Pressure Swing Adsorption Applications. <b>2013</b> , 19, 370-378	4
184	Conductive two-dimensional M3(C6S3O3)2 monolayers as effective electrocatalysts for the oxygen reduction reaction.	5
183	Advances in Functionalized Carriers Based on Graphene's Unique Biological Interface Effect. <b>2021</b> , 79, 1244	О
182	Quasielastic neutron scattering study on proton dynamics assisted by water and ammonia molecules confined in MIL-53. <b>2021</b> , 8, 054501	1
181	Fullerene-impregnated IRMOFs for balanced gravimetric and volumetric H2 densities: A combined DFT and GCMC simulations study. <b>2021</b> , 46, 40294-40294	0
180	Ultrasound-assisted synthesis of CoFe2O4/Ce-UiO-66 nanocomposite for photocatalytic aerobic oxidation of aliphatic alcohols. <b>2021</b> , 22, 100582	8

179	Interpenetration - strategies and nomenclature. <b>2005</b> , 211-225	
178	Nets with higher connectivity than four. <b>2005</b> , 165-190	
177	Poly[potassium	1
176	The Design of Tris(o-phenylenedioxy)cyclo-trisphosphazene (TPP) Derivatives and Analogs toward Multifunctional Zeolite Use. <b>2009</b> , 229-237	
175	Poly[aqua-bis(Ebenzene-1,2-dicarboxyl-ato)ethano-ltetra-lithium]. <b>2009</b> , 65, m246	
174	Synthesis of Through-space Conjugated Polymers. <b>2012</b> , 70, 480-491	O
173	Production of Atomic Photochemical Hydrogen and Photoinjection of Hydrogen in Solids. <b>2013</b> , 241-282	
172	Dielectric properties of graphene/poly(vinyl alcohol)/poly (vinylidene fluoride) nanocomposites films. <b>2016</b> , 65, 188101	2
171	Synthesis of Graphene by Low Pressure Chemical Vapor Deposition (LPCVD) Method. <b>2017</b> , 119-123	1
170	Characterization of H2 Adsorption Sites: Where Are the Hydrogens Stored in the Materials?. <b>2017</b> , 257-290	
169	Adsorption of Organic Dyes by Mesoporous MOFs in Water. <b>2017</b> , 67-86	
168	Enhancing the efficiency of polymerase chain reaction using graphene nano-flakes. 1-13	
167	A Review of Potential Applications of Graphene Composites in Anode Materials for Lithium Ion Batteries. <b>2018</b> , 08, 188-201	
166	Benzimidazole synthesis via oxidative condensation of 1,2-diaminoarenes with primary amines using MOF-235 as an effective heterogeneous catalyst. <b>2018</b> , 54(8), 88	
165	A DFT study on the structures, energy, and optical properties of copper (titanium or zirconium) doped graphenes. <b>2018</b> ,	
164	From Nanomaterials and Nanotechnologies to the Alternative Energy. <b>2018</b> , 19, 442-486	O
163	Graphene-Based Nanomaterials for Hydrogen Storage. <b>2019</b> , 229-245	
162	Preparation and thermophysical properties of graphene nanoplatelets-octadecane phase change composite materials. <b>2019</b> , 68, 100502	2

161 Bh giữmuc Đ nhiem vi sinh vat gỹ benh c‡trong thit heo v^cd yeu to anh hồng Đn th khốg Escherichia coli cua toi (Allium sativum L.). **2019**, 55(Công nghe Sinh hoc), 185

160	Metal-Organic Frameworks (MOFs). <b>2021</b> , 105-146	
159	Femtosecond laser induced in-situ crystallization of Tb-based luminescent metal organic framework. <b>2021</b> , 29, 39304-39311	
158	Mixed component metal-organic frameworks: Heterogeneity and complexity at the service of application performances. <b>2022</b> , 451, 214273	10
157	Application of MOFs and Their Derived Materials in Batteries. 2020, 121-176	
156	MetalâDrganic Frameworks and Their Hybrid Composites for Adsorption of Volatile Organic Compounds. <b>2020</b> , 313-355	1
155	Advances in materials and structures of supercapacitors. 1	2
154	Applications of copper based metal organic frameworks. <b>2021</b> , 50, 1906-1906	1
153	Hydrogen Storage in Pure and Boron-Substituted Nanoporous Carbons-Numerical and Experimental Perspective. <b>2021</b> , 11,	
152	Inclusion of cyclodextrins in a metallosupramolecular framework via structural transformations.	O
151	Prediction of functionalized graphene as potential catalysts for overall water splitting. 2022, 578, 151989	1
150	Structure co-ordination of solitary amino acids as ligands in metal-organic frameworks (MOFs): A comprehensive review. <b>2021</b> , 1251, 131931	1
149	The chemistry and applications of flexible porous coordination polymers. 2021, 3, 100067	11
148	In-situ forming Sub-2 nm hydrous iron oxide particles in MOFs for deep-treatment and high anti-interference in arsenic removal. <b>2021</b> , 431, 133813	O
147	Insights into the Role of Graphene/Graphene-hybrid Nanocomposites in Antiviral Therapy. <b>2021</b> , 8, 549	0
146	Effect of reconstructed vacancy defects on the crumpling behavior of graphene sheets. <b>2021</b> , 6, 100057	2
145	A Critical Review on Photoreduction Using MetalâDrganic Frameworks: Kinetics, pH and Mechanistic Studies and Anthropogenic/Natural Sources of Cr(VI). 1	О
144	Synthesis, structure and photocatalytic property of the 1D oxalate-bridged coordination polymer of manganese(II). <b>2021</b> , 1251, 131961	1

143	Two-dimensional transition metal dichalcogenides and their heterostructures: Role of process parameters in top-down and bottom-up synthesis approaches. <b>2021</b> , 139, 106313	2
142	Fabrication of zirconia/reduced graphene oxide/hydroxyapatite scaffold by rapid prototyping method and its mechanical and biocompatibility properties. <b>2021</b> ,	1
141	Robust smart schemes for modeling carbon dioxide uptake in metal âlbrganic frameworks. <b>2021</b> , 311, 122545	Ο
140	ZIF-95 as a filler for enhanced gas separation performance of polysulfone membrane <b>2021</b> , 11, 34319-34328	2
139	Recovery of MOF-5 from Extreme High-Pressure Conditions Facilitated by a Modern Pressure Transmitting Medium.	Ο
138	Graphene and its application in thermoplastic polymers as nano-filler- A review. <b>2022</b> , 240, 124486	6
137	Structure, magnetism, and electronic properties of MXene bilayer Fe2NO2Hx(x = 1.5, 1)/Ti2CO2 stacked heterojunction. <b>2022</b> , 790, 139319	Ο
136	Hydrogen Storage in Pure and Boron-Substituted Nanoporous Carbonsâ\umerical and Experimental Perspective. <b>2021</b> , 11, 2173	O
135	Dye contaminated wastewater treatment through metalâbrganic framework (MOF) based materials.	3
134	Thermal properties of the three-dimensional graphene/paraffin nanocomposite phase change materials. <b>2022</b> , 341, 01005	1
133	Modified MetalâDrganic Frameworks for Electrochemical Applications. 2100200	4
132	Supramolecular Reinforcement of a Large-Pore 2D Covalent Organic Framework 2022,	2
131	Fabrication of BiVO4/ reduced graphene oxide photocatlyst for hexavalent chromium reduction under visible region. <b>2022</b> , 50, 400-405	
130	Reticular Chemistry for Highly Porous Metal-Organic Frameworks: The Chemistry and Applications <b>2022</b> ,	17
129	Electrical and Low Frequency Noise Characterization of Graphene Chemical Sensor Devices Having Different Geometries <b>2022</b> , 22,	1
128	Functionalization of Gold Nanoparticles with Ru-Porphyrin and Their Selectivity in the Oligomerization of Alkynes <b>2022</b> , 15,	O
127	Switching on photocatalytic NO oxidation and proton reduction of NH-MIL-125(Ti) by convenient linker defect engineering <b>2022</b> , 430, 128468	Ο
126	Electrochemical CO2 Reduction On Two-Dimensional Metal 1,3,5-triamino-2,4,6- Benzenetriol Frameworks: A Density Functional Study.	O

125	Recent Progress Using Solid-State Materials for Hydrogen Storage: A Short Review. <b>2022</b> , 10, 304	1
124	Synthesis and characterization of nano-sized magnesium 1,4-benzenedicarboxylate metal organic framework via electrochemical method. <b>2022</b> , 309, 122970	
123	CO2 Uptake Prediction of Metal-Organic Frameworks Using Quasi-SMILES and Monte Carlo Optimization.	2
122	Metal dimers embedded vertically in defect-graphene as gas sensors: a first-principles study <b>2022</b> ,	[
121	Ordered carbonaceous frameworks: a new class of carbon materials with molecular-level design <b>2022</b> ,	2
120	Importance of Crystalline and Microporous Structures of MOFs for Application to Petrochemical and Related Processes. <b>2022</b> , 65, 37-49	
119	MetalâDrganic-Framework-Based Photo-electrochemical Cells for Solar Fuel Generation. <b>2022</b> , 126, 5079-5091.	1
118	The role of MOF based nanocomposites in the detection of phenolic compounds for environmental remediation- A review <b>2022</b> , 300, 134516	[
117	UoC-3: A MetalâDrganic Framework with an Anionic Framework Based on Uranyl UO22+ Nodes and Partly Fluorinated Benzene-1,3,5-Tribenzoate Linkers. <b>2022</b> , 22, 681-692	Ĺ
116	Grand canonical Monte Carlo (GCMC) study on adsorption performance of metal organic frameworks (MOFs) for carbon capture. <b>2021</b> , e00383	)
115	Multifunctional Anthracene-Based Ni-MOF with Encapsulated Fullerenes: Polarized Fluorescence Emission and Selective Separation of C from C <b>2021</b> ,	
114	Substituent-Induced Electron-Transfer Strategy for Selective Adsorption of N in MIL-101(Cr)-X Metal-Organic Frameworks <b>2021</b> ,	3
113	Metal-organic frameworks and their composites for fuel and chemical production CO conversion and water splitting <b>2022</b> , 12, 11686-11707	)
112	A neural network potential for the IRMOF series and its application for thermal and mechanical behaviors <b>2022</b> ,	O
111	Properties and applications of quantum dots derived from two-dimensional materials. 2022, 7,	
110	Orthogonalization of polyaryl linkers as a route to more porous phosphonate metal-organic frameworks <b>2022</b> ,	)
109	Review on applications of metalâBrganic frameworks for CO2 capture and the performance enhancement mechanisms. <b>2022</b> , 162, 112441	2
108	Data_Sheet_1.PDF. <b>2019</b> ,	

107	Catalytic oxygen evolution from hydrogen peroxide by trans-[Co(en)2Cl2]@InBTB metalâbrganic framework catalytic system. <b>2022</b> , 12, 14450-14455	O
106	MetalâBrganic framework structures of fused hexagonal motifs with cuprophilic interactions of a triangular Cu(i)3(pyrazolate-benzoate) metallo-linker.	1
105	Adsorption Properties of a Functional Porous Material Based on a Znâ <b>B</b> TB Metalâ <b>D</b> rganic Framework Structure. <b>2022</b> , 58, 6-12	1
104	A mini review on paraffin-graphene and related hybrid phase change materials for building energy applications.	
103	Application of amine-loaded activated carbon fiber in CO2 capture and separation.	
102	Recent Progress in Fluorescent Chemosensors for Protein Kinases 2022,	
101	The fabrication strategies and enhanced performances of metal-organic frameworks and carbon dots composites: State of the art review. <b>2022</b> ,	2
100	On the interface between biomaterials and two-dimensional materials for biomedical applications <b>2022</b> , 186, 114314	Ο
99	Unraveling the Role of Chemistry and Topology of MOFs in Psoralen Adsorption.	O
98	Highly Effective Photocatalytic Radical Reactions Triggered by a Photoactive Metal-Organic Framework <b>2022</b> ,	1
97	Recent Advancements in MOF/Biomass and Bio-MOF Multifunctional Materials: A Review. <b>2022</b> , 14, 5768	1
96	Surface-analyte interaction as a function of topological polar surface area of analytes in metal (Cd, Al, Ti, Sn) sulfide, nitride and oxide based chemiresistive materials. <b>2022</b> , 341, 113610	1
95	Adenine-incorporated metalâBrganic frameworks. <b>2022</b> , 464, 214558	2
94	Removal of Carbon Dioxide using Zeolitic Imidazolate Frameworks: Adsorption and Conversion via Catalysis.	2
93	Metalâ©rganic Frameworks for Water Decontamination and Reuse: A Dig at Heavy Metal Ions and Organic Toxins. 77-124	1
92	MetalâDrganic Frameworks for Carbon Dioxide Capture. 203-238	O
91	MetalâDrganic Frameworks as Sensors of Biomolecules. 1-31	O
90	Modification of MetalâDrganic Frameworks for CO2 Capture. 269-308	1

89	Host and guest joining forces: a holistic approach for metalâBrganic frameworks in nonlinear optics.	O
88	INFLUENCE OF ADATOMS ON THE VACANCY GROWTH OF FACETED PORES IN A CRYSTAL UNDER MECHANICAL LOAD. <b>2022</b> , 57, 553-561	
87	MOF-Derived Cu-BTC Nanowire-Embedded 2D Leaf-like Structured ZIF Composite-Based Aptamer Sensors for Real-Time In Vivo Insulin Monitoring.	O
86	Benchmarking Machine Learning Descriptors for Crystals. 111-126	
85	Methane storage scale-up using hydrates & metal organic framework HKUST-1 in a packed column. <b>2022</b> , 325, 124920	1
84	Three-dimensional microporous and mesoporous covalent organic frameworks based on cubic building units.	1
83	Changing charge transfer mode with cobaltatholybdenum bimetallic atomic pairs for enhanced nitrogen fixation.	0
82	A Review on Metal- Organic Frameworks (MOFS), Synthesis, Activation, Characterisation, and Application. <b>2022</b> , 38, 490-516	
81	Molecular fluorescence significantly enhanced by gold nanoparticles@zeolitic imidazolate framework-8.	
80	Co Nanoparticle Catalysts Encapsulated by BaOâlla2O3 Nanofractions for Efficient Ammonia Synthesis Under Mild Reaction Conditions. <b>2022</b> , 7, 24452-24460	
79	Functionalized C3-Symmetric Building BlocksâThe Chemistry of Triaminotrimesic Acid. <b>2022</b> , 27, 4369	
78	Functionalization of graphene with nitrogen-based groups for water purification via adsorption: A review. <b>2022</b> , 48, 102873	3
77	Functionalized graphene nanosheets obtained by direct shear exfoliation with poly(ionic liquid)s and its PAA composite. <b>2022</b> , 127, 109202	0
76	Cu-based Organic-Inorganic Composite Materials for Electrochemical CO2 Reduction.	2
75	Metal supported graphene catalysis: A review on the benefits of nanoparticular supported specialty sp2 carbon catalysts on enhancing the activities of multiple chemical transformations. <b>2022</b> , 100196	2
74	Multi-scale analysis of the strengthening mechanism of functionalized graphene as reinforcement in cement composites. <b>2022</b> , 651, 129729	
73	Applications of metalâBrganic framework-based bioelectrodes. <b>2022</b> , 13, 8727-8743	2
72	Texture in cold rolled and high-temperature annealed Cu foils. <b>2022</b> , 1249, 012052	

71	Tetrazine Linkers as Plug-and-Play Tags for General Framework Functionalization and C60 Conjugation.	1
70	Temperature-Dependent Superhydrophobic Functionalized Coordination Polymers (SFCPs) for Selective Adsorption of C2H4 over C2H6.	
69	Palladium-Based Metal Organic Frameworks as Heterogeneous Catalysts for Câlī Couplings.	1
68	Material Design and Reticular Chemistry: Unveiling New Topologies through Face Decoration of Edge Nets.	O
67	Computational study of transition metal single-atom catalysts supported on nitrogenated carbon nanotubes for electrocatalytic nitrogen reduction.	О
66	Tetrazine Linkers as Plug-and-Play Tags for General Framework Functionalization and C60 Conjugation.	1
65	Cellulose derivatives and cellulose-metal-organic frameworks for CO2 adsorption and separation. <b>2022</b> , 64, 102163	O
64	Electrodeposition-based fabrication of graphene/copper composites with excellent overall properties. <b>2022</b> , 924, 166610	1
63	New mixed ligand complexes of alkaline earth metal cations containing nicotinamide and diphenic acid. Synthesis and structural properties. <b>2022</b> , 1270, 133893	
62	Interface-induced contraction of coreâthell Prussian blue analogues toward hollow Ni-Co-Fe phosphide nanoboxes for efficient oxygen evolution electrocatalysis. <b>2023</b> , 451, 138515	1
61	Metal-organic frameworks for pharmaceutical and biomedical applications. 2022, 221, 115026	2
60	Synthesis and spectroscopic characterization of Fe3+-BDC metal organic framework as material for lithium ion batteries. <b>2023</b> , 1272, 134127	O
59	Porous metalâBrganic frameworks for hydrogen storage. <b>2022</b> , 58, 11059-11078	6
58	Boosting C2H2/CO2 separation of metalâBrganic frameworks via anion exchange and temperature elevation.	O
57	MetalâBrganic framework: Application studies in hydrogen gas absorption/adsorption. <b>2022</b> , 191-203	0
56	Microfluidic synthesis of metal-organic framework crystals with surface defects for enhanced molecular loading. <b>2023</b> , 452, 139450	O
55	Multi-topic Carboxylates as Versatile Building Blocks for the Design and Synthesis of Multifunctional MOFs Based on Alkaline Earth, Main Group and Transition Metals. 1-48	О
54	Transmetalation: A Post-synthetic Modification Tool for Functional MetalâDrganic Framework Materials. <b>2023</b> , 15-31	Ο

53	Heterofullerene C48B12-impregnated MOF-5 and IRMOF-10 for hydrogen storage: A combined DFT and GCMC simulations study. <b>2022</b> ,	1
52	Advances and outlook in modified graphene oxide (GO)/epoxy composites for mechanical applications.	0
51	Synthesis Strategies and Electrochemical Research Progress of Nano/Microscale MetalâØrganic Frameworks. 2200042	0
50	Electrically regulating nonlinear optical limiting of metal-organic framework film. 2022, 13,	4
49	Mass ratio-dependently tunable enhancement of the optical nonlinearities of SnO2/RGO composites. <b>2022</b> , 9, 106201	0
48	Recent development of graphene-based composite for multifunctional applications: energy, environmental and biomedical sciences. 1-69	1
47	Synthesis and Biomedical Applications of Highly Porous MetalâDrganic Frameworks. <b>2022</b> , 27, 6585	0
46	A comparative study of smart polyurethane foam using RSM and COMSOL multiphysics for acoustical applications: from materials to component.	O
45	Computational Characterization of Adsorptive Desulfurization Using MetalâDrganic Frameworks.	0
44	Composite PVK/SLGO As Matrix for MALDI-TOF MS Detection of Small Molecules in Dual-Ion Mode. <b>2022</b> , 7, 39028-39038	O
43	A critical review on the effect of morphology, stability, and thermophysical properties of graphene nanoparticles in nanolubricants and nanofluids.	O
42	Adsorption and Degradation of Volatile Organic Compounds by MetalâDrganic Frameworks (MOFs): A Review. <b>2022</b> , 15, 7727	1
41	Flexible metal complex crystals in response to external mechanical stimuli. 2023, 475, 214890	1
40	Effect of TiO&lt;sub&gt;2&lt;/sub&gt; doping modification on structure and catalytic performance of UiO-66. <b>2022</b> , 39, 497-503	O
39	Final Rational Design and Engineering of Efficient Metal Organic Framework for Visible Light-driven Photocatalytic carbon-di-oxide Reduction. <b>2022</b> , 121287	0
38	MXene-based phase change materials for solar thermal energy storage. <b>2022</b> , 273, 116432	O
37	Porous molecular sieve polymer composite with high CO2 adsorption efficiency and hydrophobicity. <b>2023</b> , 307, 122738	0
36	Application of ZIF nanosheets for construction of epoxy composite coatings with enhanced corrosion protection performance. <b>2023</b> , 175, 107335	O

35	Micro-flower-like MoS2-modified Co9S8 heterostructure as anode material for sodium-ion batteries with superior reversibility and rate capacity. <b>2023</b> , 145, 210-220	0
34	One More Parameter Determining the Stratification of Solutions in Small-Volume Droplets. <b>2022</b> , 95, 1374-1382	О
33	MetalâDrganic Framework-Based Photocatalysis for Solar Fuel Production. 2201258	1
32	TFN Membrane Fabricated by a Gyroid-like PE Support, a Basil Seed Mucilageâ <b>f</b> le(III) Interlayer, and a Polyamide Active Layer Incorporated with MIL-101(Cr)âNH2 Nanoparticles.	О
31	A literature review of MOF derivatives of electromagnetic wave absorbers mainly based on pyrolysis. <b>2023</b> , 30, 446-473	1
30	NaY-Ag Zeolite Chitosan Coating Kraft Paper Applied as Ethylene Scavenger Packaging.	О
29	Surface immobilization of nitrogen-coordinated iron atoms: a facile and efficient strategy toward MNC sites with superior catalytic activities.	1
28	Photo-Assisted Electrochemical CO 2 Reduction to CH 4 Using a Co-Porphyrin-Based Metalâ©rganic Framework. 2201068	О
27	Dual functionality of novel-laser assisted amorphous-iridium (III)-PCPs. <b>2023</b> , 335, 133829	0
26	Recent advancement of metal-organic frameworks in sensing platform: relevance in welfare of environment and medical sciences in line with cancer and SARS-COV-2.	O
25	High-throughput screening of hypothetical metal-organic frameworks for thermal conductivity. <b>2023</b> , 9,	0
24	Recent Progress in Emerging Novel MXenes Based Materials and their Fascinating Sensing Applications. 2206147	O
23	Performances comparison of adsorption hydrogen storage tanks at a wide temperature and pressure zone. <b>2023</b> ,	0
22	Design strategies for coordination polymers as electrodes and electrolytes in rechargeable lithium batteries. <b>2023</b> , 483, 215084	O
21	Synthesis of metal phosphides encapsulated within defect carbon: A sulfur-tolerant and acid-resistant catalyst for selective hydrogenation. <b>2023</b> , 463, 142505	0
20	Synthesis of magnetic Fe3O4-HKUST-1 nanocomposites for azo dye adsorption. <b>2023</b> , 16, 104767	o
19	Health and safety perspectives of graphene in wearables and hybrid materials. 2023, 155, 10-32	0
18	Co-adsorption of hydrogen and methane can improve the energy storage capacity of Mn-modified graphene. <b>2023</b> , 63, 106973	О

17	Progress on fundamentals of adsorption transport of metal-organic frameworks materials and sustainable applications for water harvesting and carbon capture. <b>2023</b> , 393, 136253	О
16	Improvement of NO adsorptive selectivity by the embedding of Rh in MOF-177 as carrier. <b>2023</b> , 37,	Ο
15	Preparation and characterization of dense membrane based metal organic networks (MOF- 5) for separation :aromatic-aliphatic mixtures. <b>2023</b> , 62, 909-920	0
14	High-Performance N-Butanol Gas Sensor Based on Iron-Doped MetalâDrganic Framework-Derived Nickel Oxide and DFT Study.	0
13	Graphene-based catalysts for carbon monoxide oxidation: Experimental and theoretical insights. <b>2023</b> ,	O
12	Layer-by-layer assembly of metal-organic framework thin films: Fabrication and advanced applications. <b>2023</b> , 4, 011305	O
11	Metal-organic frameworks/cellulose hybrids with their modern technological implementation towards water treatment. <b>2023</b> , 323, 121278	0
10	The thermal stability of carbon materials in the air: Quantitative structural investigation of thermal stability of carbon materials in air. <b>2023</b> , 206, 211-225	O
9	MOF as nanoscale drug delivery devices: Synthesis and recent progress in biomedical applications. <b>2023</b> , 81, 104285	1
8	Overview of Metal Organic Frameworks. <b>2023</b> , 1-14	Ο
7	Computational Studies. <b>2023</b> , 327-331	О
6	Research on photocatalytic CO2 conversion to renewable synthetic fuels based on localized surface plasmon resonance: current progress and future perspectives. <b>2023</b> , 13, 1932-1975	O
5	MetalâDrganic Frameworks-Derived Material for Electrochemical Biosensors: Recent Applications and Prospects. <b>2023</b> , 62, 4738-4753	O
4	Microstructure and Mechanical Properties of Magnesium Matrix Composites Reinforced by In Situ Reduced Graphene Oxide. <b>2023</b> , 16, 2303	O
3	Structural Regulation of Two Polyoxometalate-Based Metalâ©rganic Frameworks for the Heterogeneous Catalysis of Quinazolinones. <b>2023</b> , 62, 5565-5575	0
2	Improving Electrocatalytic Nitrogen Reduction Selectivity and Yield by Suppressing Hydrogen Evolution Reaction via Electronic MetalâBupport Interaction.	O
1	Ultra-sensitive fan-folded thermally expandable surface reduced graphene oxide strips for fire early warning response. <b>2023</b> , 669, 131478	0