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Gas storage in porous metal-organic frameworks for clean energy applications

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1149	Evaluation of heterogeneous metal-organic framework organocatalysts prepared by postsynthetic modification. 2010 , 49, 8086-91		105
1148	Dirhenium Compounds Supported by N,N'-Dimethylbenzamidinate: Formation of Linear Polymers via Axial Ligation. 2010 , 21, 291-300		6
1147	Metal-Organic Framework Constructed by Copper(I) Cyanide and Ethyl Isonicotinate Through Hydrogen Bonding. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2010 , 20, 739-745	3.2	26
1146	Thermodynamics of hydrogen adsorption on metal-organic frameworks. 2010 , 11, 3237-42		42
1145	An Isoreticular Series of Metal-Organic Frameworks with Dendritic Hexacarboxylate Ligands and Exceptionally High Gas-Uptake Capacity. 2010 , 122, 5485-5489		91
1144	Cinchona Alkaloid-Metal Complexes: Noncovalent Porous Materials with Unique Gas Separation Properties. 2010 , 122, 7189-7193		8
1143	Urothermal Synthesis of Crystalline Porous Materials. 2010 , 122, 9060-9063		19
1142	An isoreticular series of metal-organic frameworks with dendritic hexacarboxylate ligands and exceptionally high gas-uptake capacity. 2010 , 49, 5357-61		622
1141	Cinchona alkaloid-metal complexes: noncovalent porous materials with unique gas separation properties. 2010 , 49, 7035-9		41
1140	Urothermal synthesis of crystalline porous materials. 2010 , 49, 8876-9		172
1139	Methane storage in porous metal-organic frameworks: current records and future perspectives. 2010 , 10, 200-4		89
1138	Metal-organic frameworks: Enlightened pores. 2010 , 9, 609-10		27
1137	High-connected mesoporous metal-organic framework. <i>Chemical Communications</i> , 2010 , 46, 7400-2	5.8	100
1136	Molecular Simulations and Experimental Studies of CO ₂ , CO, and N ₂ Adsorption in Metal-Organic Frameworks. 2010 , 114, 15735-15740		154
1135	Porous coordination polymers of transition metal sulfides with PtS topology built on a semirigid tetrahedral linker. 2010 , 49, 7685-91		45
1134	Enhanced selectivity of CO ₂ from a ternary gas mixture in an interdigitated porous framework. <i>Chemical Communications</i> , 2010 , 46, 4258-60	5.8	101
1133	A bioinspired synthetic approach for building metal-organic frameworks with accessible metal centers. 2010 , 49, 10217-9		58

1132	Efficient Detection of Organophosphate Pesticide Based on a Metal-Organic Framework Derived from Biphenyltetracarboxylic Acid. 2010 , 10, 2835-2838		59
1131	Nonclassical active site for enhanced gas sorption in porous coordination polymer. 2010 , 132, 6654-6		283
1130	Metal-Organic Framework Isomers with Diamondoid Networks Constructed of a Semirigid Tetrahedral Linker. 2010 , 10, 5327-5333		31
1129	A series of (6,6)-connected porous lanthanide-organic framework enantiomers with high thermostability and exposed metal sites: scalable syntheses, structures, and sorption properties. 2010 , 49, 10001-6		136
1128	Exceptional thermal stability in a supramolecular organic framework: porosity and gas storage. 2010 , 132, 14457-69		281
1127	Isorecticular synthesis and modification of frameworks with the UiO-66 topology. <i>Chemical Communications</i> , 2010 , 46, 7700-2	5.8	584
1126	Metal organic gels (MOGs): a new class of sorbents for CO ₂ separation applications. 2010 , 20, 7623		72
1125	Interaction of hydrogen with accessible metal sites in the metal-organic frameworks M(2)(dhtp) (CPO-27-M; M = Ni, Co, Mg). <i>Chemical Communications</i> , 2010 , 46, 4962-4	5.8	158
1124	Structural Diversity in Metal-Organic Frameworks Built from Rigid Tetrahedral [Si(p-C ₆ H ₄ CO ₂) ₄] ₄₈ struts. 2010 , 10, 4571-4581		64
1123	Accurate Prediction of Hydrogen Adsorption in Metal-Organic Frameworks with Unsaturated Metal Sites via a Combined Density-Functional Theory and Molecular Mechanics Approach. 2010 , 114, 19116-19126		42
1122	Azulene based metal-organic frameworks for strong adsorption of H ₂ . <i>Chemical Communications</i> , 2010 , 46, 7981-3	5.8	55
1121	An unusual case of symmetry-preserving isomerism. <i>Chemical Communications</i> , 2010 , 46, 1329-31	5.8	153
1120	Modification of flexible part in Cu(2+) interdigitated framework for CH ₄ /CO ₂ separation. <i>Chemical Communications</i> , 2010 , 46, 9229-31	5.8	82
1119	A NbO-type metal-organic framework derived from a polyyne-coupled di-isophthalate linker formed in situ. <i>Chemical Communications</i> , 2010 , 46, 4196-8	5.8	126
1118	Six new metal-organic frameworks with multi-carboxylic acids and imidazole-based spacers: syntheses, structures and properties. 2011 , 40, 11856-65		62
1117	Reversible adsorption and complete separation of volatile chlorocarbons based on a Cd(II)-triazole MOF in a single-crystal-to-single-crystal fashion. <i>Chemical Communications</i> , 2011 , 47, 12343-5	5.8	43
1116	A robust near infrared luminescent ytterbium metal-organic framework for sensing of small molecules. <i>Chemical Communications</i> , 2011 , 47, 5551-3	5.8	321
1115	A unique 2D-3D polycatenation cobalt(II)-based molecule magnet showing coexistence of paramagnetism and canted antiferromagnetism. <i>Chemical Communications</i> , 2011 , 47, 3766-8	5.8	60

1114	Diverse structures and adsorption properties of quasi-Werner-type copper(II) complexes with flexible and polar axial bonds. 2011 , 40, 2268-74		23
1113	Cucurbit[7]uril: an amorphous molecular material for highly selective carbon dioxide uptake. <i>Chemical Communications</i> , 2011 , 47, 7626-8	5.8	92
1112	Silver coordination networks and cages based on a semi-rigid bis(isoxazolyl) ligand. 2011 , 40, 5483-93		14
1111	Solid-state transformation of the MOF [Ni ₂ (bipy)1.5(PDC) ₂ (H ₂ O) ₂]·3H ₂ O. 2011 , 13, 6831		26
1110	Ab-Initio Study of the Adsorption and Separation of NO _x and SO _x Gases in Functionalized IRMOF Ligands. 2011 , 115, 24906-24914		21
1109	Two Solvent-Dependent Zinc(II) Supramolecular Isomers: Rare kgd and Lonsdaleite Network Topologies Based on a Tripodal Flexible Ligand. 2011 , 11, 5182-5187		128
1108	A novel (3,36)-connected and self-interpenetrated metal-organic framework with high thermal stability and gas-sorption capabilities. <i>Chemical Communications</i> , 2011 , 47, 7722-4	5.8	66
1107	From microscopic insights of H ₂ adsorption to uptake estimations in MOFs. 2011 , 13, 16558-68		19
1106	Effect of air humidity on the removal of carbon tetrachloride from air using Cu-BTC metal-organic framework. 2011 , 13, 11165-74		30
1105	[WS ₄ Cu ₃ I ₂] ⁻ and [WS ₄ Cu ₄] ²⁺ secondary building units formed a metal-organic framework: large tubes in a highly interpenetrated system. <i>Chemical Communications</i> , 2011 , 47, 2919-21	5.8	70
1104	Analysis of hydrogen storage in nanoporous materials for low carbon energy applications. 2011 , 151, 59-74; discussion 95-115		24
1103	Solvent-Induced Synthesis of Zinc(II) and Manganese(II) Coordination Polymers with a Semirigid Tetracarboxylic Acid. 2011 , 11, 2444-2452		57
1102	Crystal Engineering Using a Turtlebug Algorithm: A de Novo Approach to the Design of Binodal Metal-Organic Frameworks. 2011 , 11, 3686-3693		9
1101	Size- and shape-selective isostructural microporous metal-organic frameworks with different effective aperture sizes. 2011 , 50, 5044-53		36
1100	Direct assembly of new cobalt(III)-lanthanide(III) heterometallic frameworks with NaCl-like topology. 2011 , 13, 2391		9
1099	Porous titania ionic nanoparticle networks. 2011 , 27, 4110-6		8
1098	Hydrogen Storage and Energy Recovery Using Aldehydes and Ketones: A Key Role for Catalysis. 2011 , 1, 772-776		16
1097	A chiral tetragonal magnesium-carboxylate framework with nanotubular channels. <i>Chemical Communications</i> , 2011 , 47, 11852-4	5.8	113

1096	Carbon capture in metal-organic frameworks— comparative study. 2011 , 4, 2177		312
1095	Enhanced CO ₂ binding affinity of a high-uptake rht-type metal-organic framework decorated with acylamide groups. 2011 , 133, 748-51		668
1094	Thermal Analysis and Heat Capacity Study of Metal-Organic Frameworks. 2011 , 115, 22748-22754		107
1093	Opportunities for MOFs in CO ₂ Capture from Flue Gases, Natural Gas, and Syngas by Adsorption. 2011 , 99-119		9
1092	A ZnO-containing doubly interpenetrated porous metal-organic framework for photocatalytic decomposition of methyl orange. <i>Chemical Communications</i> , 2011 , 47, 11715-7	5.8	289
1091	Structural and Selective Gas Adsorption Studies of Polyoxometalate and Tris(ethylenediamine) Cobalt(III) Based Ionic Crystals. 2011 , 11, 139-146		31
1090	Pore-size tuning in double-pillared metal-organic frameworks containing cadmium clusters. 2011 , 13, 3321		47
1089	Microporous metal-organic frameworks for acetylene storage and separation. 2011 , 13, 5983		146
1088	Synergistic catalysis of Au@Ag core-shell nanoparticles stabilized on metal-organic framework. 2011 , 133, 1304-6		781
1087	Solvent/additive-free synthesis of porous/zeolitic metal azolate frameworks from metal oxide/hydroxide. <i>Chemical Communications</i> , 2011 , 47, 9185-7	5.8	131
1086	Immobilization of MP-11 into a mesoporous metal-organic framework, MP-11@mesoMOF: a new platform for enzymatic catalysis. 2011 , 133, 10382-5		479
1085	Porous metal-organic frameworks as platforms for functional applications. <i>Chemical Communications</i> , 2011 , 47, 3351-70	5.8	743
1084	Synthesis of highly porous borazine-linked polymers and their application to H ₂ , CO ₂ , and CH ₄ storage. 2011 , 2, 2775		68
1083	Cd(II)-Schiff-Base Metal-Organic Frameworks: Synthesis, Structure, and Reversible Adsorption and Separation of Volatile Chlorocarbons. 2011 , 11, 5696-5701		22
1082	Effect of NH ₂ and CF ₃ functionalization on the hydrogen sorption properties of MOFs. 2011 , 40, 4879-81		218
1081	CO ₂ capture from the atmosphere and simultaneous concentration using zeolites and amine-grafted SBA-15. 2011 , 45, 10257-64		172
1080	MgII, CaII, and CoII Metal-Organic Framework Materials with [Si(p-C ₆ H ₄ CO ₂) ₃ (p-C ₆ H ₄ CO ₂ H)] ₃ Struts. 2011 , 64, 1239		17
1079	Solvent and temperature influence structural variation from nonporous 2D -i3D parallel polycatenation to 3D microporous metal-organic framework. 2011 , 13, 3971		38

1078	Template-Free Synthesis of a Highly Porous Benzimidazole-Linked Polymer for CO ₂ Capture and H ₂ Storage. 2011 , 23, 1650-1653		361
1077	Adsorbate Selectivity of Isoreticular Microporous Metal-Organic Frameworks with Similar Static Pore Dimensions. 2011 , 11, 5064-5071		16
1076	Oriented Zeolitic Imidazolate Framework-8 Membrane with Sharp H ₂ /C ₃ H ₈ Molecular Sieve Separation. 2011 , 23, 2262-2269		388
1075	A stepwise transition from microporosity to mesoporosity in metal-organic frameworks by thermal treatment. 2011 , 2, 103-106		82
1074	Three-dimensional pillar-layered copper(II) metal-organic framework with immobilized functional OH groups on pore surfaces for highly selective CO ₂ /CH ₄ and C ₂ H ₂ /CH ₄ gas sorption at room temperature. 2011 , 50, 3442-6		111
1073	Synthesis and characterization of highly porous borazine-linked polymers and their performance in hydrogen storage application. 2011 , 21, 10629		50
1072	A microporous hydrogen-bonded organic framework for highly selective C ₂ H ₂ /C ₂ H ₄ separation at ambient temperature. 2011 , 133, 14570-3		409
1071	Pro-porous coordination polymers of the 1,4-bis((3,5-dimethyl-1H-pyrazol-4-yl)-methyl)benzene ligand with late transition metals. 2011 , 50, 11506-13		28
1070	Effect of humidity on the performance of microporous coordination polymers as adsorbents for CO ₂ capture. 2011 , 27, 6368-73		368
1069	Metal-organic frameworks based on unprecedented trinuclear and pentanuclear metal-tetrazole clusters as secondary building units. 2011 , 50, 12133-40		56
1068	An interpenetrated metal-organic framework and its gas storage behavior: simulation and experiment. 2011 , 50, 11055-63		40
1067	A luminescent nanoscale metal-organic framework for sensing of nitroaromatic explosives. <i>Chemical Communications</i> , 2011 , 47, 3153-5	5.8	401
1066	Coordination Polymers with Tetrafluoroterephthalate as Bridging Ligand. 2011 , 11, 5053-5063		37
1065	Interrupted zeolite LTA and ATN-type boron imidazolate frameworks. 2011 , 133, 11884-7		126
1064	Materials-based hydrogen storage: Attributes for near-term, early market PEM fuel cells. 2011 , 15, 29-38		84
1063	para-Benzene disulfonic acid and its tetrachloro and tetrafluoro derivatives--studies towards polyhalogenated metal-organic-frameworks with sulfo analogues of terephthalic acid. 2011 , 40, 3128-41		23
1062	Synthesis, structure of 3D lanthanide (La(III), Pr(III)) nanoporous coordination polymers containing 1D channels as selective luminescent probes of Pb ²⁺ , Ca ²⁺ and Cd ²⁺ ions. 2011 , 161, 2230-2240		20
1061	On the performance of Cu-BTC metal organic framework for carbon tetrachloride gas removal. <i>Chemical Communications</i> , 2011 , 47, 508-10	5.8	32

1060	Adsorption of ethane, ethylene, propane, and propylene on a magnesium-based metal-organic framework. 2011 , 27, 13554-62		223
1059	A new approach to construct a doubly interpenetrated microporous metal-organic framework of primitive cubic net for highly selective sorption of small hydrocarbon molecules. <i>Chemistry - A European Journal</i> , 2011 , 17, 7817-22	4.8	127
1058	A series of three-dimensional lanthanide MOFs: Observation of reversible structural changes controlled by solvent desorption/adsorption, and magnetic properties. 2011 , 1004, 82-87		21
1057	Visualisation and characterisation of voids in crystalline materials. 2011 , 13, 1804-1813		271
1056	Three-dimensional porous Cd(II) coordination polymer with large one-dimensional hexagonal channels: high pressure CH ₄ and H ₂ adsorption studies. 2011 , 50, 539-44		69
1055	The current status of hydrogen storage in metal-organic frameworks updated. 2011 , 4, 2721		391
1054	Covalent organic frameworks for extremely high reversible CO ₂ uptake capacity: a theoretical approach. 2011 , 21, 1073-1078		59
1053	[Cu ₃ (BTC) ₂]: A Metal-Organic Framework Catalyst for the Friedländer Reaction. 2011 , 3, 157-159		129
1052	Hydrothermal synthesis, crystal structure, and thermal analysis of a Novel trinuclear manganese complex: Mn ₃ (C ₁₂ H ₈ N ₂) ₂ (C ₁₀ H ₁₁ O ₅) ₆ . 2011 , 37, 382-387		2
1051	From metal-organic framework to nanoporous carbon: toward a very high surface area and hydrogen uptake. 2011 , 133, 11854-7		950
1050	Adsorption equilibrium of methane and carbon dioxide on porous metal-organic framework Zn-BTB. 2011 , 17, 777-782		18
1049	Enthalpy/Entropy Correlation for Hydrogen Adsorption on MOFs: Variable-Temperature FTIR Study of Hydrogen Adsorption on MIL-100(Cr) and MIL-101(Cr). 2011 , 2011, 1703-1708		24
1048	Syntheses and Reactions of 2,5-Disulfobenzene-1-diazonium Salts: Towards Functionalized Sulfonate Metal-Organic Frameworks. 2011 , 2011, 1695-1701		11
1047	Metal-Organic Frameworks with Incorporated Carbon Nanotubes: Improving Carbon Dioxide and Methane Storage Capacities by Lithium Doping. 2011 , 123, 511-514		16
1046	Metal-organic frameworks with incorporated carbon nanotubes: improving carbon dioxide and methane storage capacities by lithium doping. 2011 , 50, 491-4		229
1045	Cobalt imidazolate framework as precursor for oxygen reduction reaction electrocatalysts. <i>Chemistry - A European Journal</i> , 2011 , 17, 2063-7	4.8	342
1044	The route to a feasible hydrogen-storage material: MOFs versus ammonia borane. <i>Chemistry - A European Journal</i> , 2011 , 17, 10184-207	4.8	53
1043	Carbon dioxide capture-related gas adsorption and separation in metal-organic frameworks. 2011 , 255, 1791-1823		1614

1042	Methane storage in wet carbon of tailored pore sizes. 2011 , 49, 3731-3736		39
1041	Synthesis of trans-1,4-cyclohexanedisulfonic acid and its zinc salt [A belt-like metal-organic coordination polymer with tetrahedrally and octahedrally coordinated zinc ions. 2011 , 369, 45-48		13
1040	Hydrogen storage properties of two pillared-layer Ni(II) metal-organic frameworks. 2011 , 142, 208-213		39
1039	Adsorption of CO ₂ and CH ₄ on a magnesium-based metal organic framework. 2011 , 353, 549-56		357
1038	Kinetic separation of carbon dioxide and methane on a copper metal-organic framework. 2011 , 357, 504-9		89
1037	Three-component reactions leading to 2D and 3D metal-organic frameworks assembled on dinickel-carboxylate secondary building units. 2011 , 30, 47-52		8
1036	Design of Improved Metal-Organic Framework (MOF) H ₂ Adsorbents. 2011 , 3, 2133-2141		7
1035	Static disorder and local structure in zinc(II) isonicotinate, a quartzlike metal-organic framework. 2012 , 227, 313-320		8
1034	High CO ₂ uptake and selectivity by triptycene-derived benzimidazole-linked polymers. <i>Chemical Communications</i> , 2012 , 48, 1141-3	5.8	197
1033	Surfactant promoted solid amine sorbents for CO ₂ capture. 2012 , 5, 5742-5749		109
1032	Microporous lanthanide metal-organic frameworks. 2012 , 32, 81-100		92
1031	Effect of Ion-Exchange Modification on Hydrogen and Carbon Dioxide Adsorption Behaviour of RhoZMOF Material. 2012 , 30, 793-806		7
1030	Topological studies of three related metal-organic frameworks of GdIII and 5-nitroisophthalate. 2012 , 68, 528-35		6
1029	Counter-cation modulation of hydrogen and methane storage in a sodalite-type porous metal-organic framework. <i>Chemical Communications</i> , 2012 , 48, 12002-4	5.8	58
1028	Synthesis, characterization and sorption properties of NH ₂ -MIL-47. 2012 , 14, 15562-70		25
1027	Dynamic porous metal-organic frameworks: synthesis, structure and sorption property. 2012 , 14, 8569		31
1026	Lanthanide coordination polymers with tetrafluoroterephthalate as a bridging ligand: thermal and optical properties. 2012 , 51, 4679-88		63
1025	An efficient multi-scale lattice model approach to screening nano-porous adsorbents. 2012 , 137, 244102		9

1024	Giant metal-organic frameworks with bulky scaffolds: from microporous to mesoporous functional materials. 2012 , 41, 5437-53		38
1023	Luminescent microporous metal-metallosalen frameworks with the primitive cubic net. 2012 , 41, 3928-32		13
1022	Fabrication of porous nanocomposites with controllable specific surface area and strength via suspension infiltration. 2012 , 28, 16423-9		7
1021	Biomimetic catalysis of a porous iron-based metal-metalloporphyrin framework. 2012 , 51, 12600-2		194
1020	Synthesis of quinolines via Friedländer reaction catalyzed by CuBTC metal-organic-framework. 2012 , 41, 4036-44		114
1019	Two Zn(II) metal-organic frameworks with coordinatively unsaturated metal sites: structures, adsorption, and catalysis. 2012 , 7, 2796-804		93
1018	Gas Storage and Separation in Supramolecular Materials. 2012 ,		
1017	Porous metal-organic framework based on a macrocyclic tetracarboxylate ligand exhibiting selective CO ₂ uptake. 2012 , 14, 6115		43
1016	Design and construction of coordination polymers based on 2,2'-dinitro-4,4'-biphenyldicarboxylate and semi-rigid N-donor ligands: diverse structures and magnetic properties. 2012 , 41, 2677-84		29
1015	Structure modulation, argentophilic interactions and photoluminescence properties of silver(I) coordination polymers with isomeric N-donor ligands. 2012 , 2, 8421		29
1014	Pure and mixed gas adsorption of CH ₄ and N ₂ on the metal-organic framework Basolite® A100 and a novel copper-based 1,2,4-triazolyl isophthalate MOF. 2012 , 22, 10274		105
1013	Magnesium aminoethyl phosphonate (Mg(AEP)(H ₂ O)): an inorganic-organic hybrid nanomaterial with high CO ₂ :N ₂ sorption selectivity. <i>Chemical Communications</i> , 2012 , 48, 7046-8	5.8	9
1012	A porous metal-organic framework (MOF) with unusual 2D-3D polycatenation based on honeycomb layers. 2012 , 41, 1928-30		54
1011	Sorption and separation of CO ₂ via nanoscale AlO(OH) hollow spheres. <i>Chemical Communications</i> , 2012 , 48, 844-6	5.8	14
1010	Exploring Ag ⁺ /HB interactions in coordination polymers: silver-alkanedinitrile networks with cobalt carbaborane anions. 2012 , 14, 3367		12
1009	Controllable synthesis of microporous, nanotubular and mesopore-like metal-organic frameworks by adjusting the reactant ratio and modulated luminescence properties of Alq ₃ @MOF composites. 2012 , 22, 17947		37
1008	Solvent- and Vapor-Mediated Solid-State Transformations in 1,3,5-Benzenetricarboxylate Metal-Organic Frameworks. 2012 , 12, 1999-2003		24
1007	Syntheses, crystal structures, and luminescence of two main-group metal complexes based on 3,4-pyrazoledicarboxylic acid. 2012 , 65, 923-933		31

1006	High and selective CO ₂ capture by two mesoporous acylamide-functionalized rht-type metal-organic frameworks. <i>Chemical Communications</i> , 2012 , 48, 7025-7	5.8	167
1005	Theoretical prediction of high pressure methane adsorption in porous aromatic frameworks (PAFs). 2012 , 28, 14405-14		20
1004	Hydrogen Storage in High Surface Area Carbons with Identical Surface Areas but Different Pore Sizes: Direct Demonstration of the Effects of Pore Size. 2012 , 116, 25734-25740		61
1003	Pore surface engineering with controlled loadings of functional groups via click chemistry in highly stable metal-organic frameworks. 2012 , 134, 14690-3		312
1002	Control of the coordination status of the open metal sites in metal-organic frameworks for high performance separation of polar compounds. 2012 , 28, 6794-802		62
1001	CH ₄ storage and CO ₂ capture in highly porous zirconium oxide based metal-organic frameworks. <i>Chemical Communications</i> , 2012 , 48, 9831-3	5.8	150
1000	Separation of CO ₂ -CH ₄ mixtures in the mesoporous MIL-100(Cr) MOF: experimental and modelling approaches. 2012 , 41, 4052-9		71
999	Confinement effects in the hydrogen adsorption on paddle wheel containing metal-organic frameworks. 2012 , 14, 2508-17		23
998	Microporous metal-organic frameworks for storage and separation of small hydrocarbons. <i>Chemical Communications</i> , 2012 , 48, 11813-31	5.8	278
997	Significant gas uptake enhancement by post-exchange of zinc(II) with copper(II) within a metal-organic framework. <i>Chemical Communications</i> , 2012 , 48, 10286-8	5.8	102
996	Synthesis of snowflake-like multi-layered ZnO with controllable pore sizes and its photocatalytic property. 2012 , 258, 3604-3610		11
995	Functionalized IRMOF-3 as efficient heterogeneous catalyst for the synthesis of cyclic carbonates. 2012 , 361-362, 12-16		102
994	On Demand: The Singular rht Net, an Ideal Blueprint for the Construction of a MetalOrganic Framework (MOF) Platform. 2012 , 124, 10246-10250		11
993	Crystal Engineering of a Microporous, Catalytically Active fcu Topology MOF Using a Custom-Designed Metalloporphyrin Linker. 2012 , 124, 10229-10232		27
992	On demand: the singular rht net, an ideal blueprint for the construction of a metal-organic framework (MOF) platform. 2012 , 51, 10099-103		107
991	Crystal engineering of a microporous, catalytically active fcu topology MOF using a custom-designed metalloporphyrin linker. 2012 , 51, 10082-5		141
990	Efficient CO(2) capture by porous, nitrogen-doped carbonaceous adsorbents derived from task-specific ionic liquids. 2012 , 5, 1912-7		84
989	A versatile metal-organic framework for carbon dioxide capture and cooperative catalysis. <i>Chemical Communications</i> , 2012 , 48, 9995-7	5.8	214

988	Methane storage in advanced porous materials. 2012 , 41, 7761-79		643
987	Direct carbonization of Al-based porous coordination polymer for synthesis of nanoporous carbon. 2012 , 134, 2864-7		538
986	Synthetic routes toward MOF nanomorphologies. 2012 , 22, 10119		153
985	Five Novel Coordination Polymers Based on a C-Centered Triangular Flexible Ligand. 2012 , 12, 1022-1031		36
984	Organic-Inorganic Hybrids Constructed from Mixed-Valence Multinuclear Copper Complexes and Templated by Keggin Polyoxometalates. 2012 , 12, 1273-1281		96
983	A porous metal-organic framework with helical chain building units exhibiting facile transition from micro- to meso-porosity. <i>Chemical Communications</i> , 2012 , 48, 883-5	5.8	45
982	Assembly of Discrete One-, Two-, and Three-Dimensional Zn(II) Complexes Containing Semirigid V-Shaped Tricarboxylate Ligands. 2012 , 12, 1452-1463		106
981	High capacity carbon dioxide adsorption by inexpensive covalent organic polymers. 2012 , 22, 8431		162
980	Stepwise adsorption in a mesoporous metal-organic framework: experimental and computational analysis. <i>Chemical Communications</i> , 2012 , 48, 3297-9	5.8	50
979	Porous double-walled metal triazolate framework based upon a bifunctional ligand and a pentanuclear zinc cluster exhibiting selective CO ₂ uptake. 2012 , 51, 4423-5		47
978	Highly selective CO ₂ /CH ₄ gas uptake by a halogen-decorated borazine-linked polymer. 2012 , 22, 13524		80
977	High proton conductivity in a flexible, cross-linked, ultramicroporous magnesium tetrakisphosphate hybrid framework. 2012 , 51, 7689-98		110
976	Water Stable Metal-Organic Framework Evolutionally Formed from a Flexible Multidentate Ligand with Acylamide Groups for Selective CO ₂ Adsorption. 2012 , 12, 1081-1084		66
975	Rational Design and Synthesis of a New Organometallic Ligand, 1-Ferrocenyl-3-(5-bromopyridyl)-prop-3-enol-1-one and Its Heteronuclear Coordination Polymer, {Cu[1-ferrocenyl-3-(5-bromopyridyl)prop-1,3-dionate] ₂] _n . 2012 , 12, 49-53		12
974	Multipoint interactions enhanced CO ₂ uptake: a zeolite-like zinc-tetrazole framework with 24-nuclear zinc cages. 2012 , 134, 18892-5		205
973	Metal-Organic frameworks: Promising materials for enhancing electrochemical properties of nanostructured Zn ₂ SnO ₄ anode in Li-ion batteries. 2012 , 14, 2112		53
972	Triple framework interpenetration and immobilization of open metal sites within a microporous mixed metal-organic framework for highly selective gas adsorption. 2012 , 51, 4947-53		74
971	Iodine Confinement into Metal-Organic Frameworks (MOFs): Low-Temperature Sintering Glasses To Form Novel Glass Composite Material (GCM) Alternative Waste Forms. 2012 , 51, 614-620		122

970	Fine tuning of the metal-organic framework Cu ₃ (BTC) ₂ HKUST-1 crystal size in the 100 nm to 5 micron range. 2012 , 22, 13742	139
969	Highly porous 4,8-connected metal-organic frameworks: synthesis, characterization, and hydrogen uptake. 2012 , 51, 2503-8	23
968	Novel coordination frameworks incorporating the 4,4'-bipyrazolyl ditopic ligand. 2012 , 51, 5235-45	55
967	Metal-organic frameworks for separations. 2012 , 112, 869-932	5033
966	Carbon dioxide capture in metal-organic frameworks. 2012 , 112, 724-81	5017
965	Hydrogen storage in metal-organic frameworks. 2012 , 112, 782-835	2988
964	Tunability of band gaps in metal-organic frameworks. 2012 , 51, 9039-44	123
963	Six New Co-Coordination Polymers Based on a Tripodal Carboxylate Ligand. 2012 , 12, 3610-3618	53
962	Methane storage in metal organic frameworks. 2012 , 22, 16698	138
961	Preparation of Microporous Polymers Based on 1,3,5-Triazine Units Showing High CO ₂ Adsorption Capacity. 2012 , 213, 1385-1390	62
960	A robust microporous metal-organic framework constructed from a flexible organic linker for acetylene storage at ambient temperature. 2012 , 22, 10195	52
959	A robust microporous metal-organic framework constructed from a flexible organic linker for highly selective sorption of methanol over ethanol and water. 2012 , 22, 10352	18
958	Breathing effects of CO ₂ adsorption on a flexible 3D lanthanide metal-organic framework. 2012 , 22, 10172	61
957	High hopes: can molecular electronics realise its potential?. 2012 , 41, 4827-59	258
956	Commensurate adsorption of hydrocarbons and alcohols in microporous metal organic frameworks. 2012 , 112, 836-68	929
955	Targeted functionalisation of a hierarchically-structured porous coordination polymer crystal enhances its entire function. <i>Chemical Communications</i> , 2012 , 48, 6472-4	5.8 45
954	Selective metal cation capture by soft anionic metal-organic frameworks via drastic single-crystal-to-single-crystal transformations. 2012 , 134, 9581-4	113
953	How can proteins enter the interior of a MOF? Investigation of cytochrome c translocation into a MOF consisting of mesoporous cages with microporous windows. 2012 , 134, 13188-91	270

952	Entangled coordination polymers with mixed N- and O-donor organic linkers: a case of module-matching priority. 2012 , 41, 4146-52		15
951	A pillared metal-organic framework incorporated with 1,2,3-triazole moieties exhibiting remarkable enhancement of CO ₂ uptake. <i>Chemical Communications</i> , 2012 , 48, 8898-900	5.8	73
950	Solvent-induced controllable synthesis, single-crystal to single-crystal transformation and encapsulation of Alq ₃ for modulated luminescence in (4,8)-connected metal-organic frameworks. 2012 , 51, 7484-91		121
949	Enhanced Binding Affinity, Remarkable Selectivity, and High Capacity of CO ₂ by Dual Functionalization of a rht-Type Metal-Organic Framework. 2012 , 124, 1441-1444		38
948	A Highly Porous and Robust (3,3,4)-Connected Metal-Organic Framework Assembled with a 90° Bridging-Angle Embedded Octacarboxylate Ligand. 2012 , 124, 1612-1616		17
947	Low-Temperature CO Oxidation over Cu-Based Metal-Organic Frameworks Monitored by using FTIR Spectroscopy. 2012 , 4, 755-759		35
946	Control of porosity by using isorecticular zeolitic imidazolate frameworks (IRZIFs) as a template for porous carbon synthesis. <i>Chemistry - A European Journal</i> , 2012 , 18, 11399-408	4.8	110
945	Hydrogen Storage in New Metal-Organic Frameworks. 2012 , 116, 13143-13151		154
944	Heterogeneous single-molecule diffusion in one-, two-, and three-dimensional microporous coordination polymers: directional, trapped, and immobile guests. 2012 , 12, 3080-5		48
943	Neutral mononuclear, dinuclear, tetranuclear d ⁷ /d ¹⁰ metal complexes containing bis-pyrazole/pyridine ligands supported by 2,6-bis(3-pyrazolyl)pyridine: synthesis, structure, spectra, and catalytic activity. 2012 , 51, 6517-28		47
942	Molecular recognition: from solution science to nano/materials technology. 2012 , 41, 5800-35		321
941	3,5-Bis{4-[(benzimidazol-1-yl)methyl]phenyl}-4H-1,2,4-triazol-4-amine and its one-dimensional polymeric complex with HgCl ₂ . 2012 , 68, m152-5		5
940	Adsorption of CH ₄ and CO ₂ on Zr-metal organic frameworks. 2012 , 366, 120-124		82
939	Industrial Outlook on Zeolites and Metal Organic Frameworks. 2012 , 33, 3-10		113
938	The progression of Al-based metal-organic frameworks [From academic research to industrial production and applications. 2012 , 157, 131-136		258
937	Naphthalene-based periodic nanoporous organosilicas: II. Hydrogen and methane adsorption and physicochemical study. 2012 , 158, 332-338		11
936	A new linking ligand with pyridyl-carboxylate terminals and its coordination polymers: Synthesis, structures, and properties of HL, [AgL] _n [CdL ₂](CH ₃ OH)(H ₂ O)] _n and [MnL ₂ (CH ₃ OH)] _n {L=(3-py)-C ₆ H ₄ -COO}. 2012 , 31, 255-264		8
935	Metal-organic frameworks constructed from versatile [WS ₄ Cu(x)](x-2) units: micropores in highly interpenetrated systems. <i>Chemistry - A European Journal</i> , 2012 , 18, 2812-24	4.8	53

934	A microporous metal-organic framework for highly selective separation of acetylene, ethylene, and ethane from methane at room temperature. <i>Chemistry - A European Journal</i> , 2012 , 18, 613-9	4.8	188
933	Enhanced binding affinity, remarkable selectivity, and high capacity of CO ₂ by dual functionalization of a rht-type metal-organic framework. 2012 , 51, 1412-5		398
932	A highly porous and robust (3,3,4)-connected metal-organic framework assembled with a 90° bridging-angle embedded octacarboxylate ligand. 2012 , 51, 1580-4		101
931	A series of metal-organic frameworks with high methane uptake and an empirical equation for predicting methane storage capacity. 2013 , 6, 2735		177
930	Preparation of unconventional dendrimers that contain rigid NH-triazine linkages and peripheral tert-butyl moieties for CO ₂ -selective adsorption. <i>Chemistry - A European Journal</i> , 2013 , 19, 10573-9	4.8	18
929	Layer-by-layer aqueous rapid synthesis of ZIF-8 films on a reactive surface. 2013 , 42, 11128-35		47
928	Construction of three-dimensional metal-organic frameworks in the presence of a tetrahedral ligand and a secondary bidentate linker. 2013 , 15, 6199		9
927	Hydrogen storage: beyond conventional methods. <i>Chemical Communications</i> , 2013 , 49, 8735-51	5.8	355
926	Two photoluminescent metal-organic frameworks based on a BODIPY-derived bipyridine ligand. 2013 , 15, 7315		34
925	Linker extension through hard-soft selective metal coordination for the construction of a non-rigid metal-organic framework. 2013 , 56, 418-422		18
924	Adsorption in Metal-Organic Frameworks. 2013 , 989-1006		3
923	Tailoring the porosity of chemically activated hydrothermal carbons: Influence of the precursor and hydrothermal carbonization temperature. 2013 , 62, 346-355		165
922	Trigonal prismatic Cu(I) and Ag(I) pyrazolato nanocage hosts: encapsulation of S ₈ and hydrocarbon guests. 2013 , 42, 14951-4		25
921	Self-assembled hybrid tinphosphonate nanoparticles with bimodal porosity: an insight towards the efficient and selective catalytic process for the synthesis of bioactive 1,4-dihydropyridines under solvent-free conditions. 2013 , 1, 11210		32
920	Microscopic Origins of Enhanced Gas Adsorption and Selectivity in Mixed-Linker Metal-Organic Frameworks. 2013 , 117, 17131-17142		18
919	High-resolution inelastic neutron scattering and neutron powder diffraction study of the adsorption of dihydrogen by the Cu(II) metal-organic framework material HKUST-1. 2013 , 427, 9-17		11
918	Gas adsorption studies of CO ₂ and N ₂ in spatially aligned double-walled carbon nanotube arrays. 2013 , 61, 616-623		56
917	Metal-organic frameworks for upgrading biogas via CO ₂ adsorption to biogas green energy. 2013 , 42, 9304-32		295

916	Microwave synthesis and characterization of MOF-74 (M=Ni, Mg) for gas separation. 2013 , 180, 114-122	164
915	Metal-organic frameworks based on previously unknown Zr ₈ /Hf ₈ cubic clusters. 2013 , 52, 12661-7	170
914	Nanostructured adsorbents for hydrogen storage at ambient temperature: high-pressure measurements and factors influencing hydrogen spillover. 2013 , 3, 23935	33
913	Non-covalent interactions between metal cations and molecular hydrogen: spectroscopic studies of M+H ₂ complexes. 2013 , 32, 559-587	28
912	Predicting Gas Separation Performances of Porous Coordination Networks Using Atomistic Simulations. 2013 , 52, 17627-17639	19
911	Metal-organic frameworks in fuel cell technologies. 2013 , 8, 577-597	122
910	Effect of Ligand Coordination on the Structures and Visible-Light Photocatalytic Activity of Manganese Vanadate Hybrids. 2013 , 13, 5282-5288	23
909	Synthesis and magnetic properties of a 3d ^{4f} heterometallic chain. 2013 , 1054-1055, 53-56	4
908	Investigation of NaY Zeolite with adsorbed CO ₂ by neutron powder diffraction. 2013 , 172, 95-104	57
907	High-Capacity Gas Storage by a Microporous Oxalamide-Functionalized NbO-Type Metal-Organic Framework. 2013 , 13, 5001-5006	64
906	Role of nanoconfinement on hydrogen sorption properties of metal nanoparticles hybrids. 2013 , 439, 117-130	72
905	Effects of nitro-functionalization on the gas adsorption properties of isoreticular metal-organic framework-eight (IRMOF-8). 2013 , 177, 82-90	14
904	A highly porous 4,4-paddlewheel-connected NbO-type metal-organic framework with a large gas-uptake capacity. 2013 , 42, 11304-11	31
903	Metastable interwoven mesoporous metal-organic frameworks. 2013 , 52, 11580-4	59
902	Highly dispersed Au nanoparticles immobilized on Zr-based metal-organic frameworks as heterostructured catalyst for CO oxidation. 2013 , 1, 14294	75
901	Water-controlled synthesis and single-crystal structural transformations of a cyanide-bridged W(IV)-Ni(II) molecular wheel complex and 3D networks. <i>Chemical Communications</i> , 2013 , 49, 9582-4	5.8 19
900	Zn(II) and Cu(II) complexes generated from 5-(pyridin-4-yl)-3-[2-(pyridin-4-yl)ethyl]-1,3,4-oxadiazole-2(3H)-thione. 2013 , 69, 716-20	3
899	Construction of a series of coordination polymers from three imidazole-based multi-carboxylate ligands. 2013 , 42, 14268-80	33

898	One-dimensional channel-structured Eu-MOF for sensing small organic molecules and Cu ²⁺ ion. 2013 , 1, 11043		304
897	Two rare indium-based porous metal-metalloporphyrin frameworks exhibiting interesting CO ₂ uptake. 2013 , 15, 9320		43
896	Host-guest keylock hydrogen-bonding interactions: a rare case in the design of a V-shaped polycarboxylate Ni(II)-based chiral coordination polymer. 2013 , 15, 9798		16
895	A new microporous carbon material synthesized via thermolysis of a porous aromatic framework embedded with an extra carbon source for low-pressure CO ₂ uptake. <i>Chemical Communications</i> , 2013 , 49, 10269-71	5.8	70
894	Quest for a highly connected robust porous metal-organic framework on the basis of a bifunctional linear linker and a rare heptanuclear zinc cluster. <i>Chemical Communications</i> , 2013 , 49, 10516-8	5.8	35
893	Anion-dependent host-guest properties of porous assemblies of coordination complexes (PACs), [Cu(A)(py)] (A = PF ₆ ⁻ , BF ₄ ⁻ , CF ₃ BO ₃ ⁻ and CH ₃ BO ₃ ⁻ ; py = pyridine), based on Werner-type copper(II) complexes in the solid state. 2013 , 42, 11100-10		19
892	H ₂ interaction with divalent cations in isostructural MOFs: a key study for variable temperature infrared spectroscopy. 2013 , 42, 12586-95		28
891	An unprecedented dynamic porous metal-organic framework assembled from fivefold interlocked closed nanotubes with selective gas adsorption behaviors. <i>Chemical Communications</i> , 2013 , 49, 1820-2	5.8	43
890	Rapid and enhanced activation of microporous coordination polymers by flowing supercritical CO ₂ . <i>Chemical Communications</i> , 2013 , 49, 1419-21	5.8	53
889	Experimental and theoretical charge densities of a zinc-containing coordination polymer, Zn(HCOO) ₂ (H ₂ O) ₂ . 2013 , 52, 297-305		17
888	Bifunctional HNO ₃ catalytic synthesis of N-doped porous carbons for CO ₂ capture. 2013 , 1, 913-918		100
887	Fusing High Symmetric Coordination Polyhedrons of Cu ₆ (PIP) ₄ , Cu ₁₂ (PIP) ₈ , and Cu ₁₂ (PIP) ₂₄ into an Unprecedented Porous MOF: Synthesis, Structure, and Its Remarkable CO ₂ Selectivity. 2013 , 13, 24-26		29
886	Synthesis, Structures and Photoluminescence Properties of a Series of Alkaline Earth Metal-Based Coordination Networks Synthesized Using Thiophene-Based Linkers. 2013 , 13, 326-332		43
885	Three cobalt(II) coordination polymers based on V-shaped aromatic polycarboxylates and rigid bis(imidazole) ligand: syntheses, crystal structures, physical properties and theoretical studies. 2013 , 15, 1377		46
884	Impact of tailored chemical and textural properties on the performance of nanoporous borazine-linked polymers in small gas uptake and selective binding. 2013 , 15, 1		7
883	Computational screening of functional groups for ammonia capture in metal-organic frameworks. 2013 , 29, 1446-56		41
882	Ligands containing pyridyl-carboxylate terminals and their discrete silver and polymeric cadmium compounds: (n-py) _n H _n N _n 10H ₆ nCOOH (n = 2 (HL1), 3 (HL2)), [Ag(HL1) ₂](PF ₆), [Ag(HL1) ₂](NO ₃)(H ₂ O), and [Cd(L2) ₂]. 2013 , 53, 103-112		8
881	Mixed matrix membranes containing MOFs for ethylene/ethane separation Part A: Membrane preparation and characterization. 2013 , 428, 445-453		73

880	Dynamic Photo-Switching in Metal-Organic Frameworks as a Route to Low-Energy Carbon Dioxide Capture and Release. 2013 , 125, 3783-3786		38
879	A microporous metal-organic framework of a rare sty topology for high CH ₄ storage at room temperature. <i>Chemical Communications</i> , 2013 , 49, 2043-5	5.8	58
878	Modulating methane storage in anionic nano-porous MOF materials via post-synthetic cation exchange process. 2013 , 42, 4786-9		73
877	A route to metal-organic frameworks through framework templating. 2013 , 52, 1164-6		77
876	Adsorptive denitrogenation of model fuels with porous metal-organic framework (MOF) MIL-101 impregnated with phosphotungstic acid: effect of acid site inclusion. 2013 , 250-251, 37-44		86
875	Dynamic photo-switching in metal-organic frameworks as a route to low-energy carbon dioxide capture and release. 2013 , 52, 3695-8		248
874	Prediction of Water Adsorption in Copper-Based Metal-Organic Frameworks Using Force Fields Derived from Dispersion-Corrected DFT Calculations. 2013 , 117, 7519-7525		46
873	Removal of Dibenzothiophene with Composite Adsorbent MOF-5/Cu(I). 2013 , 27, 816-821		77
872	Expanded porous MOF-505 analogue exhibiting large hydrogen storage capacity and selective carbon dioxide adsorption. 2013 , 52, 2823-9		82
871	Single-Crystal-to-Single-Crystal Transformation of a Novel 2-Fold Interpenetrated Cadmium-Organic Framework with Trimesate and 1,2-Bis(4-pyridyl)ethane into the Thermally Desolvated Form Which Exhibits Liquid and Gas Sorption Properties. 2013 , 13, 1526-1534		28
870	Nanomaterials for energy conversion and storage. 2013 , 42, 3127-71		1188
869	Structural Elucidation of a Calcined Layered Lanthanide-Organic Framework Comprising an Unprecedented Organic Polymer. 2013 , 43, 165-170		1
868	A Combined Pulsed Electron Paramagnetic Resonance Spectroscopic and DFT Analysis of the ¹³ CO ₂ and ¹³ CO Adsorption on the Metal-Organic Framework Cu ₂ .97Zn _{0.03} (btc) ₂ . 2013 , 117, 8231-8240		25
867	Porous NbO-type metal-organic framework with inserted acylamide groups exhibiting highly selective CO ₂ capture. 2013 , 15, 3517		91
866	Facile preparation of continuous indium metal-organic framework thin films on indium tin oxide glass. 2013 , 544, 296-300		10
865	A New Type of Efficient CO ₂ Adsorbent with Improved Thermal Stability: Self-Assembled Nanohybrids with Optimized Microporosity and Gas Adsorption Functions. 2013 , 23, 4377-4385		22
864	Polyrotaxane frameworks containing N,N',N''-(4,4',4''-nitrilotris(4,1-phenylene))triisonicotinamide: structural and luminescent properties. 2013 , 15, 5337		4
863	Metal-organic frameworks as platforms for clean energy. 2013 , 6, 1656		768

862	Adsorbent density impact on gas storage capacities. 2013 , 173, 47-52		17
861	Two novel MOF-74 analogs exhibiting unique luminescent selectivity. <i>Chemical Communications</i> , 2013 , 49, 1699-701	5.8	125
860	Growth of large single MOF crystals and effective separation of organic dyes. 2013 , 15, 4094		41
859	Metal-Organic Framework with Functional Amide Groups for Highly Selective Gas Separation. 2013 , 13, 2670-2674		61
858	Enhanced carbon dioxide uptake by metalloporphyrin-based microporous covalent triazine framework. 2013 , 4, 2445		99
857	A microporous metal-organic framework with both open metal and Lewis basic pyridyl sites for high C ₂ H ₂ and CH ₄ storage at room temperature. <i>Chemical Communications</i> , 2013 , 49, 6719-21	5.8	142
856	A microporous metal-organic framework with Lewis basic pyridyl sites for selective gas separation of C ₂ H ₂ /CH ₄ and CO ₂ /CH ₄ at room temperature. 2013 , 15, 5232		22
855	Interpenetration control in metal-organic frameworks for functional applications. 2013 , 257, 2232-2249		415
854	Syntheses, structures and physical properties of two zinc(II) coordination polymers with 1,3,5-tris(imidazol-1-ylmethyl)-2,4,6-trimethylbenzene and 1,3,5-benzenetricarboxylate. 2013 , 406, 223-229		11
853	Metal-Organic Frameworks Assembled From Erbium Tetramers and 2,5-Pyridinedicarboxylic Acid. 2013 , 13, 2607-2617		25
852	Comparative Study of the Adsorption Equilibrium of CO ₂ on Microporous Commercial Materials at Low Pressures. 2013 , 52, 6785-6793		22
851	Formation of high crystalline ZIF-8 in an aqueous solution. 2013 , 15, 1794		301
850	Co(II)/Zn(II) Coordination Polymers with Angular Dicarboxylate and Flexible N-Donor Struts: Structural and Photoluminescence Studies. 2013 , 13, 664-670		31
849	Microporous polymelamine network for highly selective CO ₂ adsorption. 2013 , 54, 596-600		36
848	Nanocatalysts for hydrogen generation from hydrazine. 2013 , 3, 1889		93
847	Medical Applications of Solid Nitrosyl Complexes. 2013 , 225-256		3
846	Construction of homo- and heterometallic-pyridine-2,3-dicarboxylate metallosupramolecular networks with structural diversity: 1D T5(2) water tape and unexpected coordination mode of pyridine-2,3-dicarboxylate. 2013 , 15, 1244		16
845	Synthesis and Crystal Structure of a Porous Framework Obtained by In Situ Ligand Formation From 4,4'-Dipyridyldisulfide. 2013 , 43, 864-868		2

844 Nanotechnology for Energy Production. **2013**, 1-39

843 Two new series of rare-earth organic frameworks involving two structural architectures: syntheses, structures and magnetic properties. **2013**, 15, 2456 25

842 MOF Nano-Vesicles and Toroids: Self-Assembled Porous Soft-Hybrids for Light Harvesting. **2013**, 23, 5585-5590 77

841 Microporous and mesoporous materials for gas storage and separation: a review. **2013**, 8, 618-626 31

840 Zeolitic imidazolate framework as efficient heterogeneous catalyst for the synthesis of ethyl methyl carbonate. **2013**, 366, 43-47 46

839 Mechanism of homogeneous reduction of CO₂ by pyridine: proton relay in aqueous solvent and aromatic stabilization. **2013**, 135, 142-54 137

838 Strategies toward enhanced low-pressure volumetric hydrogen storage in nanoporous cryoadsorbents. **2013**, 29, 15689-97 11

837 Synthesis and properties of four coordination polymers built from a semi-rigid tripod carboxylic acid. **2013**, 15, 8989 25

836 Highly porous metal-organic framework sustained with 12-connected nanoscopic octahedra. **2013**, 42, 1708-14 54

835 Adsorbenskomposit mit gesteigerter Wärmeleitfähigkeit zur Verbesserung der Effizienz mobiler Methanadsorptionsspeicher. **2013**, 85, 1363-1363

834 Expanded organic building units for the construction of highly porous metal-organic frameworks. *Chemistry - A European Journal*, **2013**, 19, 14886-94 4.8 60

833 H, D and HD adsorption upon the metal-organic framework [CuZn(btc)] studied by pulsed ENDOR and HYSCORE spectroscopy. **2013**, 111, 2950-2966 13

832 Four Coordination Polymers Constructed from 3, 5-Bis-oxylacetate-benzoic Acid and N-donor Ligands. **2013**, 639, 600-605 6

831 . **2014**, 8

830 . **2014**, 45

829 Highly luminescent thin films of the dense framework (B)[EuIm₂] with switchable transparency formed by scanning femtosecond-pulse laser deposition. **2014**, 53, 706-10 20

828 An rht-type metalorganic framework constructed from an unsymmetrical ligand exhibiting high hydrogen uptake capability. **2014**, 4, 53975-53980 14

827 Electrochemical Synthesis of a Microporous Conductive Polymer Based on a MetalOrganic Framework Thin Film. **2014**, 126, 6572-6576 18

826	Highly Selective CO ₂ Capture by Triazine-Based Benzimidazole-Linked Polymers. 2014 , 47, 8328-8334	121
825	Three-dimensional periodic supramolecular organic framework ion sponge in water and microcrystals. 2014 , 5, 5574	148
824	Properties and Characterization Methods. 2014 , 113-172	
823	A review on production, storage of hydrogen and its utilization as an energy resource. 2014 , 20, 1148-1156	430
822	Highly enhanced selectivity for the separation of CH ₄ over N ₂ on two ultra-microporous frameworks with multiple coordination modes. 2014 , 186, 137-145	44
821	Computational design of tetrahedral silsesquioxane-based porous frameworks with diamond-like structure as hydrogen storage materials. 2014 , 25, 177-185	10
820	Energy storage applications of activated carbons: supercapacitors and hydrogen storage. 2014 , 7, 1250-1280	987
819	Alkylamine-tethered stable metal-organic framework for CO ₂ capture from flue gas. 2014 , 7, 734-7	113
818	Encapsulation of gases in powder solid matrices and their applications: A review. 2014 , 259, 87-108	54
817	Methane Storage in Metal-Substituted Metal-Organic Frameworks: Thermodynamics, Usable Capacity, and the Impact of Enhanced Binding Sites. 2014 , 118, 2929-2942	35
816	Two luminescent metal-organic frameworks constructed by unsymmetric tricarboxylate. 2014 , 40, 62-65	11
815	Covalent Heme Framework as a Highly Active Heterogeneous Biomimetic Oxidation Catalyst. 2014 , 26, 1639-1644	67
814	Removing oil droplets from water using a copper-based metal organic frameworks. 2014 , 249, 293-301	91
813	Two new pyridine-2,3-dicarboxylate coordination polymers prepared from zerovalent metal precursor: Syntheses, luminescent and magnetic properties. 2014 , 210, 224-231	9
812	Effect of purification conditions on gas storage and separations in a chromium-based metal-organic framework MIL-101. 2014 , 193, 160-165	23
811	High-throughput computational screening of metal-organic frameworks. 2014 , 43, 5735-49	251
810	Electrochemical synthesis of a microporous conductive polymer based on a metal-organic framework thin film. 2014 , 53, 6454-8	105
809	. 2014 , 10, 1252-1261	108

808	Rigidifying fluorescent linkers by metal-organic framework formation for fluorescence blue shift and quantum yield enhancement. 2014 , 136, 8269-76		422
807	Two-dimensional metal-organic framework with wide channels and responsive turn-on fluorescence for the chemical sensing of volatile organic compounds. 2014 , 136, 7241-4		527
806	A highly porous NbO type metal-organic framework constructed from an expanded tetracarboxylate. <i>Chemical Communications</i> , 2014 , 50, 1552-4	5.8	42
805	Supramolecular assemblies of copper(II)pyridine-2,3-dicarboxylate complexes with N-donor ligands and clustered water molecules. 2014 , 409, 407-417		9
804	Functional Hybrid Porous Coordination Polymers. 2014 , 26, 310-322		323
803	Metal-cation-directed de novo assembly of a functionalized guest molecule in the nanospace of a metal-organic framework. 2014 , 136, 1202-5		148
802	Liquid acid-catalysed fabrication of nanoporous 1,3,5-triazine frameworks with efficient and selective CO ₂ uptake. 2014 , 5, 3424		96
801	Fabrication of magnetically separable fluorescent terbium-based MOF nanospheres for highly selective trace-level detection of TNT. 2014 , 43, 3978-83		75
800	Four ZnII/CdII coordination polymers based on 3,3'-(pyridine-3,5-diyl) dibenzoic acid: Syntheses, crystal structures and photoluminescence property. 2014 , 68, 138-143		4
799	Polybenzoxazine-based monodisperse carbon spheres with low-thermal shrinkage and their CO ₂ adsorption properties. 2014 , 2, 4406		51
798	Exceptional gravimetric and volumetric hydrogen storage for densified zeolite templated carbons with high mechanical stability. 2014 , 7, 427-434		54
797	Five inorganicorganic hybrids based on Keggin polyanion [SiMo ₁₂ O ₄₀] ⁴⁻ From 0D to 2D network. 2014 , 209, 97-104		18
796	Thermophysical properties of MOF-5 powders. 2014 , 185, 235-244		57
795	Self-Directed Localization of ZIF-8 Thin Film Formation by Conversion of ZnO Nanolayers. 2014 , 24, 4804-4811	108	
794	Two 3D Coordination Frameworks Based on Benzobisimidazole Linkers Generated under Similar Conditions: Synthesis, Structures and Thermal Properties. 2014 , 2014, 5362-5369		3
793	Effect of Polycarboxylate Coligands from Linear to V-shaped CuII Coordination Polymers Based on a Rigid Tripodal Ligand. 2014 , 640, 2247-2254		3
792	Microporous Hyper-Cross-Linked Aromatic Polymers Designed for Methane and Carbon Dioxide Adsorption. 2014 , 118, 28699-28710		83
791	1,2,4,5-Benzenetetrakisulfonic acid and 1,4-benzenedisulfonic acid as sulfo analogues of pyromellitic and terephthalic acids for building coordination polymers of manganese. 2014 , 16, 11064-11077		6

790	Beyond Custom Design of Organic Ligands: An Integrative Strategy for Metal-Organic Frameworks Design. 2014 , 34, 125-141	12
789	Correlation of Mesh Size of Metal-Carboxylate Layer with Degree of Interpenetration in Pillared-Layer Frameworks. 2014 , 14, 5608-5616	19
788	Modeling PCN-61 and PCN-66: Isostructural rht-Metal-Organic Frameworks with Distinct CO ₂ Sorption Mechanisms. 2014 , 14, 5599-5607	20
787	Porosity modulation of activated ZIF-templated carbons via compaction for hydrogen and CO ₂ storage applications. 2014 , 2, 10960	38
786	An amino group functionalized metal-organic framework as a luminescent probe for highly selective sensing of Fe ³⁺ ions. 2014 , 2, 7662	280
785	Synthesis of metal-organic frameworks by continuous flow. 2014 , 16, 3796-3802	115
784	A cytochrome C encapsulated metal organic framework as a bio-material for sulfate ion recognition. 2014 , 2, 8628-8631	26
783	A metal-organic framework as a chemical guide to control hydrogen desorption pathways of ammonia borane. 2014 , 6, 6526-30	22
782	Synthesis optimization of the ultra-microporous [Ni ₃ (HCOO) ₆] framework to improve its CH ₄ /N ₂ separation selectivity. 2014 , 4, 42326-42336	21
781	Influence of porous texture and surface chemistry on the CO ₂ adsorption capacity of porous carbons: acidic and basic site interactions. 2014 , 6, 21237-47	107
780	A family of 3D lanthanide-organic frameworks constructed from parallelogram secondary building units: synthesis, structures and properties. 2014 , 16, 1777	13
779	Control of porosity of novel carbazole-modified polytriazine frameworks for highly selective separation of CO ₂ /N ₂ . 2014 , 2, 7795-7801	63
778	Cobalt-cluster-based coordination polymers with size-matching mixed ligands. 2014 , 16, 1749	17
777	Cholanamide components for organic alloys; expanding the scope of nanoporous steroidal ureas. <i>Chemical Communications</i> , 2014 , 50, 4803-5	5.8 10
776	Graphene oxide-rare earth metal-organic framework composites for the selective isolation of hemoglobin. 2014 , 6, 10196-204	90
775	Water stability and adsorption in metal-organic frameworks. 2014 , 114, 10575-612	1513
774	Multifunctional metal-organic frameworks constructed from meta-benzenedicarboxylate units. 2014 , 43, 5618-56	431
773	High storage capacity and separation selectivity for C ₂ hydrocarbons over methane in the metal-organic framework Cu ^{II} DPAT. 2014 , 2, 15823-15828	89

772	Facile Preparation of Dibenzoheterocycle-Functional Nanoporous Polymeric Networks with High Gas Uptake Capacities. 2014 , 47, 2875-2882		99
771	Brønsted instead of Lewis acidity in functionalized MIL-101Cr MOFs for efficient heterogeneous (nano-MOF) catalysis in the condensation reaction of aldehydes with alcohols. 2014 , 53, 7319-33		127
770	1,3,5,7-Tetrakis(tetrazol-5-yl)-adamantane: the smallest tetrahedral tetrazole-functionalized ligand and its complexes formed by reaction with anhydrous M(II)Cl ₂ (M = Mn, Cu, Zn, Cd). 2014 , 43, 12590-605		20
769	Enhancing performance of Nafion [®] -based PEMFC by 1-D channel metal-organic frameworks as PEM filler. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 15696-15705	6.7	37
768	Isorecticular Series of (3,24)-Connected Metal-Organic Frameworks: Facile Synthesis and High Methane Uptake Properties. 2014 , 26, 1912-1917		69
767	Recent progress on desiccant materials for solid desiccant cooling systems. 2014 , 74, 280-294		169
766	Investigation of SO ₂ gas adsorption in metal-organic frameworks by molecular simulation. 2014 , 46, 277-281		31
765	Oligo(p-phenyleneethynylene)-Derived Porous Luminescent Nanoscale Coordination Polymer of GdIII: Bimodal Imaging and Nitroaromatic Sensing. 2014 , 118, 12241-12249		33
764	Methane storage in metal-organic frameworks. 2014 , 43, 5657-78		1246
763	A combinatorial approach towards water-stable metal-organic frameworks for highly efficient carbon dioxide separation. 2014 , 7, 2791-5		68
762	An N-rich metal-organic framework with an rht topology: high CO ₂ and C ₂ hydrocarbons uptake and selective capture from CH ₄ . <i>Chemical Communications</i> , 2014 , 50, 5031-3	5.8	125
761	Syntheses, structures and fluorescent properties of cadmium coordination polymers based on 2,3,5,5'-biphenyl tetracarboxylate and N-donor ancillary ligands. 2014 , 83, 159-166		17
760	Design of 3D 1,3,5,7-tetraphenyladamantane-based covalent organic frameworks as hydrogen storage materials. 2014 , 4, 24526-24532		14
759	Synthesis and hydrogen adsorption properties of internally polarized 2,6-azulenedicarboxylate based metal-organic frameworks. 2014 , 2, 18823-18830		22
758	Photocatalytic organic pollutants degradation in metal-organic frameworks. 2014 , 7, 2831-2867		1133
757	Study of Guest Molecules in Metal-Organic Frameworks by Powder X-ray Diffraction: Analysis of Difference Envelope Density. 2014 , 14, 5397-5407		64
756	Performance improvement of activated nanoporous carbon supported gold catalyst as an anode for direct borohydride-hydrogen peroxide fuel cells. 2014 , 4, 17129-17135		12
755	Adsorption of Phenol and p-Nitrophenol from Aqueous Solutions on Metal-Organic Frameworks: Effect of Hydrogen Bonding. 2014 , 59, 1476-1482		170

754	Methane storage in zeolite-like carbon materials. 2014 , 188, 16-22	43
753	Synthesis and characterization of zeolitic imidazolate framework ZIF-7 for CO ₂ and CH ₄ separation. 2014 , 190, 189-196	74
752	In situ growth of IRMOF-3 combined with ionic liquids to prepare solid-phase microextraction fibers. 2014 , 829, 22-7	74
751	AgPd nanoparticles supported on MIL-101 as high performance catalysts for catalytic dehydrogenation of formic acid. 2014 , 2, 11060	89
750	IRMOF Thin Films Templated by Oriented Zinc Oxide Nanowires. 2014 , 14, 1506-1509	14
749	Targeted structure modulation of "pillar-layered" metal-organic frameworks for CO ₂ capture. 2014 , 53, 8985-90	76
748	Porosity Enhancement of Carbazolic Porous Organic Frameworks Using Dendritic Building Blocks for Gas Storage and Separation. 2014 , 26, 4023-4029	145
747	A new microporous metal-organic framework with open metal sites and exposed carboxylic acid groups for selective separation of CO ₂ /CH ₄ and C ₂ H ₂ /CH ₄ . 2014 , 4, 36419	34
746	Application of pyrene-derived benzimidazole-linked polymers to CO ₂ separation under pressure and vacuum swing adsorption settings. 2014 , 2, 12492-12500	70
745	Introduction of π -complexation into porous aromatic framework for highly selective adsorption of ethylene over ethane. 2014 , 136, 8654-60	304
744	One-dimensional coordination polymers of copper(II), cobalt(II), zinc(II) and cadmium(II) with glutarate and N-methylimidazole. 2014 , 67, 122-128	7
743	Syntheses, structures, thermal stabilities and gas sorption properties of two rod-based microporous lead(II) polycarboxylate coordination frameworks. 2014 , 184, 15-20	13
742	DES assisted synthesis of hierarchical nitrogen-doped carbon molecular sieves for selective CO ₂ versus N ₂ adsorption. 2014 , 2, 8719-8729	59
741	Anion-Controlled Dielectric Behavior of Homochiral Tryptophan-Based Metal-Organic Frameworks. 2014 , 14, 1572-1579	46
740	Three coordination polymers of transition metals built using HPPC ligand: Crystal structures and novel topology. 2014 , 83, 143-149	8
739	Adsorption of carbon dioxide, methane and nitrogen on an ultramicroporous copper metal-organic framework. 2014 , 430, 78-84	56
738	Microporous Organic Polymers: Synthesis, Types, and Applications. 2014 , 125-164	2
737	Pd nanoparticles supported on MIL-101 as high-performance catalysts for catalytic hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4947-4953	6.7 78

736	A combined experimental and theoretical study of gas sorption on nanoporous silver triazolato metal-organic frameworks. 2014 , 183, 62-68		14
735	Unusual adsorption behavior of volatile hydrocarbons on MOF-5 studied using thermodesorption methods. 2014 , 587, 1-10		14
734	Enhanced Methane Sorption in Densified Forms of a Porous Polymer Network. 2014 , 05, 387-394		6
733	Schaltbare Transparenz in hochgradig lumineszierenden dünnen Filmen der Raumnetzverbindung $3[\text{Eu}(\text{m}^2)]$ abgeschieden durch Femto-Laserablation. 2014 , 126, 723-728		3
732	Hybrid Multifunctional Materials Based on Phosphonates, Phosphinates and Auxiliary Ligands. 2015 , 193-244		3
731	Preparation of Highly Porous Coordination Polymer Coatings on Macroporous Polymer Monoliths for Enhanced Enrichment of Phosphopeptides. 2015 , e52926		2
730	Tunable Photodynamic Switching of DArE@PAF-1 for Carbon Capture. 2015 , 25, 4405-4411		33
729	A protophilic solvent-assisted solvothermal approach to Cu-BTC for enhanced CO ₂ capture. 2015 , 29, 612-617		9
728	A novel 2D ladder shaped metal-organic framework based on lead-aspartate system with hydrophobic channels. 2015 , 14, 91-103		1
727	Probing the Structural Stability of and Enhanced CO ₂ Storage in MOF MIL-68(In) under High Pressures by FTIR Spectroscopy. <i>Chemistry - A European Journal</i> , 2015 , 21, 18739-48	4.8	7
726	Three-dimensional networks containing rectangular Sr ₄ and Ba ₄ units: Synthesis, structure, bonding, and potential application for Ne gas separation. 2015 , 115, 1501-1510		6
725	Crystal Engineering with the New Linker Tolanedisulfonic Acid (H ₂ TDS): Helical Chains in Zn(TDS)(DMA) ₃ , Linear Chains in Zn(TDS)(NMP) ₃ , and Complex Anions in [HDMA] ₂ [Zn(TDS) ₂ (DMA) ₃](DMA) ₂ . 2015 , 10, 1354-62		5
724	Efficient Hybrid-Type CO ₂ Adsorbents of Reassembled Layered Double Hydroxide 2D Nanosheets with Polyoxometalate 0D Nanoclusters. 2015 , 2015, 1198-1202		25
723	Predicting Methane Storage in Open-Metal-Site Metal-Organic Frameworks. 2015 , 119, 13451-13458		53
722	A (3,6)-connected metal-organic framework with high CH ₄ binding affinity and uptake capacity. 2015 , 17, 4793-4798		15
721	Electrosynthesis of Metal-Organic Frameworks: Challenges and Opportunities. 2015 , 2, 462-474		142
720	Adsorption and Desorption of HD on the Metal-Organic Framework Cu _{2.97} Zn _{0.03} (Btc) ₂ Studied by Three-Pulse ESEEM Spectroscopy. 2015 , 119, 28530-28535		11
719	Carbon Capture and Storage. 2015 , 329-366		3

7 ¹⁸	Surfactant-directed syntheses of mesostructured zinc imidazolates: formation mechanism and structural insights. 2015 , 17, 463-470		11
7 ¹⁷	Annulation of phenols with methylbutenol over MOFs: The role of catalyst structure and acid strength in producing 2,2-dimethylbenzopyran derivatives. 2015 , 202, 297-302		9
7 ¹⁶	Metal cluster-based functional porous coordination polymers. 2015 , 293-294, 263-278		215
7 ¹⁵	Needle-like hematite nano-structure prepared by directed thermolysis of MIL-53 nano-structure with enhanced methane storage capacity. 2015 , 141, 315-318		23
7 ¹⁴	Exceptional Gas Adsorption Properties by Nitrogen-Doped Porous Carbons Derived from Benzimidazole-Linked Polymers. 2015 , 27, 1349-1358		184
7 ¹³	Proton conduction and long-range ferrimagnetic ordering in two isostructural Copper(II) mesoxalate metal-organic frameworks. 2015 , 54, 1597-605		42
7 ¹²	One-pot synthesis of hydrazono-sulfonamide adducts using Cu(BTC) MOF catalyst and their remarkable AIEE properties: unprecedented copper(II)-catalyzed generation of ketenimine. 2015 , 5, 20003-20017		17
7 ¹¹	Control of Interpenetration in Two-Dimensional Metal-Organic Frameworks by Modification of Hydrogen Bonding Capability of the Organic Bridging Subunits. 2015 , 15, 1336-1343		31
7 ¹⁰	Investigation of prototypal MOFs consisting of polyhedral cages with accessible Lewis-acid sites for quinoline synthesis. <i>Chemical Communications</i> , 2015 , 51, 4827-9	5.8	26
7 ⁰⁹	A new mesoporous coordination polymer: synthesis, structure, and gas adsorption studies. 2015 , 17, 2087-2090		8
7 ⁰⁸	Synthesis and energy applications of metal organic frameworks. 2015 , 22, 413-424		16
7 ⁰⁷	A 63-Nets Framework Constructed by Cadmium(II) Hexafluorosilicate and 3-(Pyridin-4-yl)benzenamine: Synthesis, Structure, and Luminescence Property. 2015 , 45, 407-410		1
7 ⁰⁶	Cyclic Dehydrogenation(Re)Hydrogenation with Hydrogen-Storage Materials: An Overview. 2015 , 3, 100-117		22
7 ⁰⁵	Open metal sites dangled on cobalt trigonal prismatic clusters within porous MOF for CO ₂ capture. 2015 , 2, 369-372		17
7 ⁰⁴	One-dimensional lanthanide coordination polymers: synthesis, structures, and single-ion magnetic behaviour. 2015 , 44, 3764-72		9
7 ⁰³	Structural studies and detection of nitroaromatics by luminescent 2D coordination polymers with angular dicarboxylate ligands. 2015 , 2, 228-236		29
7 ⁰²	Metal-organic framework-templated synthesis of magnetic nanoporous carbon as an efficient absorbent for enrichment of phenylurea herbicides. 2015 , 870, 67-74		82
7 ⁰¹	Exploiting parameter space in MOFs: a 20-fold enhancement of phosphate-ester hydrolysis with UiO-66-NH. 2015 , 6, 2286-2291		212

700	Acid-induced Zn(II)-based metal-organic frameworks for encapsulation and sensitization of lanthanide cations. 2015 , 17, 2294-2300		9
699	Zero-periodic metal-organic material, organic polymer composites: tuning properties of methacrylate polymers via dispersion of dodecyloxy-decorated Cu-BDC nanoballs. 2015 , 3, 13215-13225		7
698	Engineering lanthanide-optical centres in IRMOF-3 by post-synthetic modification. <i>New Journal of Chemistry</i> , 2015 , 39, 4249-4258	3.6	34
697	Two series of pH-dependent lanthanide complexes showing solvent-induced single crystal to single crystal transformation, sorption and luminescence properties. 2015 , 17, 2837-2846		26
696	Remote Stabilization of Copper Paddlewheel Based Molecular Building Blocks in Metal-Organic Frameworks. 2015 , 27, 2144-2151		64
695	A Three-Dimensional Dynamic Metal-Organic Framework with Fourfold Interpenetrating Diamondoid Networks and Selective Adsorption Properties. 2015 , 54, 6291-5		19
694	Hydrogen storage in Zr-fumarate MOF. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10542-10546	6.7	51
693	Four coordination compounds constructed from 1,10-phenanthroline and semi-flexible and flexible carboxylic acids: Hydrothermal synthesis, optical properties and photocatalytic performance. 2015 , 90, 58-68		40
692	Functionalized metal-organic framework as a new platform for efficient and selective removal of cadmium(II) from aqueous solution. 2015 , 3, 15292-15298		163
691	Syntheses, characterization and properties of nine novel Zn(II) coordination polymers based on 4,4'-(phenylazanediyl)dibenzoic acid and various N-donor ligands. 2015 , 17, 5451-5467		17
690	Structural diversity in coordination polymers with a semirigid Lewis acidity ligand: structures and properties. 2015 , 17, 5690-5701		20
689	Deuterium/hydrogen permeation through different molecular sieve membranes: ZIF, LDH, zeolite. 2015 , 216, 127-132		10
688	Single-Crystal to Single-Crystal Mechanical Contraction of Metal-Organic Frameworks through Stereoselective Postsynthetic Bromination. 2015 , 137, 9527-30		98
687	Manganese-Vanadate Hybrids: Impact of Organic Ligands on Their Structures, Thermal Stabilities, Optical Properties, and Photocatalytic Activities. 2015 , 54, 7388-401		15
686	Two stable 3D porous metal-organic frameworks with high performance for gas adsorption and separation. 2015 , 3, 16627-16632		74
685	Syntheses, structures, luminescence and magnetic properties of eleven coordination polymers constructed by a N,N'-sulfuryldiimidazole ligand. 2015 , 17, 5054-5065		17
684	1,4-Benzenedisulfonic acid (H ₂ BDS) as terephthalic acid analogue for the preparation of coordination polymers: the examples of M(BDS)(NMP) ₃ (M = Mn, Fe, Co; NMP = N-methylpyrrolidone). <i>New Journal of Chemistry</i> , 2015 , 39, 6117-6124	3.6	6
683	Creating extra pores in microporous carbon via a template strategy for a remarkable enhancement of ambient-pressure CO ₂ uptake. <i>Chemical Communications</i> , 2015 , 51, 8683-6	5.8	11

682	Effects of textural and surface characteristics of metal-organic frameworks on the methane adsorption for natural gas vehicular application. 2015 , 212, 80-90	17
681	Ancillary ligand-assisted assembly of C ₃ -symmetric 4,4',4'-nitriлотriбенzoic acid with divalent Zn ²⁺ ions: Syntheses, topological structures, and photoluminescence properties. 2015 , 227, 155-164	12
680	Novel microporous metal-organic framework exhibiting high acetylene and methane storage capacities. 2015 , 54, 4377-81	30
679	Quantum-Chemical Characterization of the Properties and Reactivities of Metal-Organic Frameworks. 2015 , 115, 6051-111	197
678	The properties of the bonding between CO and ZIF-8 structures: a density functional theory study. 2015 , 134, 1	6
677	Insights on the physical adsorption of hydrogen and methane in UiO series of MOFs using molecular simulations. 2015 , 1061, 36-45	13
676	Lanthanide ions (Eu ³⁺ , Tb ³⁺ , Sm ³⁺ , Dy ³⁺) activated ZnO embedded zinc 2,5-pyridinedicarboxylic metal-organic frameworks for luminescence application. 2015 , 3, 2823-2830	33
675	Ultra-high uptake and selective adsorption of organic dyes with a novel polyoxomolybdate-based organic-inorganic hybrid compound. 2015 , 5, 45688-45692	25
674	Photoinduced postsynthetic polymerization of a metal-organic framework toward a flexible stand-alone membrane. 2015 , 54, 4259-63	191
673	Amide-containing zinc(II) metal-organic layered networks: a structure-CO ₂ capture relationship. 2015 , 2, 477-484	13
672	Photoinduced Postsynthetic Polymerization of a Metal-Organic Framework toward a Flexible Stand-Alone Membrane. 2015 , 127, 4333-4337	50
671	Non-covalent Interactions of CO ₂ with Functional Groups of Metal-Organic Frameworks from a CCSD(T) Scheme Applicable to Large Systems. 2015 , 11, 1574-84	24
670	Microwave pyrolysis of rice straw to produce biochar as an adsorbent for CO ₂ capture. 2015 , 84, 75-82	93
669	Multifunctional for One-Pot Cascade Reactions: Combination of Host-Guest Cooperation and Bimetallic Synergy in Catalysis. 2015 , 5, 2062-2069	304
668	White light emission of IFP-1 by in situ co-doping of the MOF pore system with Eu ³⁺ and Tb ³⁺ . 2015 , 3, 4623-4631	34
667	Zeolitic imidazolate framework dispersions for the fast and highly efficient extraction of organic micropollutants. 2015 , 5, 28203-28210	27
666	One-pot tandem catalysis over Pd@MIL-101: boosting the efficiency of nitro compound hydrogenation by coupling with ammonia borane dehydrogenation. <i>Chemical Communications</i> , 2015 , 51, 10419-22	5.8 137
665	Computational Screening of Metal Catecholates for Ammonia Capture in Metal-Organic Frameworks. 2015 , 54, 3257-3267	26

664	A thermodynamic tank model for studying the effect of higher hydrocarbons on natural gas storage in metal-organic frameworks. 2015 , 8, 1501-1510	70
663	Selective carbon dioxide adsorption by mixed-ligand porous coordination polymers. 2015 , 17, 8388-8413	44
662	Underlying Adsorption Mechanisms of Water in Hydrophobic and Hydrophilic Zeolite Imidazolate Frameworks: ZIF-71 and ZIF-90. 2015 , 119, 23774-23780	15
661	Magnetoelastic coupling in the cobalt adipate metal-organic framework from quasi-harmonic lattice dynamics. 2015 , 3, 11076-11080	9
660	Study of metal-organic framework MIL-101(Cr) for natural gas (methane) storage and compare with other MOFs (metal-organic frameworks). 2015 , 91, 772-781	91
659	Experimental and Theoretical Investigations of CO ₂ Sorption by a 3D In-MOF with Multiple 1D Channels. 2015 , 2015, 4038-4043	7
658	Exploitation of Guest Accessible Aliphatic Amine Functionality of a Metal-Organic Framework for Selective Detection of 2,4,6-Trinitrophenol (TNP) in Water. 2015 , 15, 4627-4634	110
657	Development Trends in Porous Adsorbents for Carbon Capture. 2015 , 49, 12641-61	74
656	Incorporation of cisplatin into the metal-organic frameworks UiO66-NH ₂ and UiO66 □ encapsulation vs. conjugation. 2015 , 5, 83648-83656	47
655	A new NbO type metal-organic framework for high acetylene and methane storage. 2015 , 5, 84446-84450	12
654	Opportunities and challenges of MOF-based membranes in gas separations. 2015 , 152, 207-237	182
653	Nanoscale luminescent lanthanide-based metal-organic frameworks: properties, synthesis, and applications. 2015 , 17, 1	21
652	Synthesis and evaluation of porous azo-linked polymers for carbon dioxide capture and separation. 2015 , 3, 20586-20594	68
651	In situ variable-temperature single crystal X-ray diffraction studies of the single-crystal-to-single-crystal dehydration and rehydration of a mixed-ligand 2D zinc metal-organic framework using trimesate and 4,4'-bipyridine-N,N'-dioxide as ligands. 2015 , 17, 8946-8956	11
650	A multifunctional metal-organic framework based tumor targeting drug delivery system for cancer therapy. 2015 , 7, 16061-70	202
649	Room temperature hydrogen uptake in single walled carbon nanotubes incorporated MIL-101 doped with lithium: effect of lithium doping. 2015 , 22, 1635-1642	11
648	Scalable continuous solvo-jet process for ZIF-8 nanoparticles. 2015 , 266, 56-63	22
647	Solvent-induced generation of two magnesium-based metal-organic frameworks with doubly inter-penetrated ReO ₃ nets constructed from the same linkers but distinct inorganic nodes. 2015 , 52, 41-45	8

646	Synthesis, structures and physical properties of mixed-ligand coordination polymers based on a V-shaped dicarboxylic ligand. 2015 , 17, 1381-1388	28
645	Photocatalytic CO ₂ reduction in metal-organic frameworks: A mini review. 2015 , 1083, 127-136	123
644	Diffusion of methane and other alkanes in metal-organic frameworks for natural gas storage. 2015 , 124, 135-143	28
643	Enhancing the water stability of Al-MIL-101-NH ₂ via postsynthetic modification. <i>Chemistry - A European Journal</i> , 2015 , 21, 314-23	4.8 67
642	Biomimicry in metal-organic materials. 2015 , 293-294, 327-356	108
641	Benzimidazole-Linked Porous Polymers: Synthesis and Gas Sorption Properties. 2015 , 33, 131-136	14
640	Series metal-organic frameworks constructed from 1,10-phenanthroline and 3,3',4,4'-biphenyltetracarboxylic acid: Hydrothermal synthesis, luminescence and photocatalytic properties. 2015 , 1080, 44-51	39
639	Synthesis, crystal structure and antitumor activity of a dinuclear calcium complex based on 1,5-naphthalenedisulfonate and 2,2'-bipyridine ligands. 2015 , 41, 4339-4347	10
638	A high surface area Zr(IV)-based metal-organic framework showing stepwise gas adsorption and selective dye uptake. 2015 , 223, 104-108	37
637	Metal Organic Frameworks as Emerging Photocatalysts. 2016 ,	4
636	A Heterobimetallic 2-D Coordination Polymer [Na ₂ (Cu ₂ I ₂ (2pyCOO) ₄)(H ₂ O) ₄] _n (2pyCOO ⁻ picolinate) within a 3-D Supramolecular Architecture. 2016 , 6, 96	2
635	Molecular Simulations for Adsorption-Based CO ₂ Separation Using Metal Organic Frameworks. 2016 ,	
634	Transforming MOFs for Energy Applications Using the Guest@MOF Concept. 2016 , 55, 7233-49	52
633	Pd Nanocubes@ZIF-8: Integration of Plasmon-Driven Photothermal Conversion with a Metal-Organic Framework for Efficient and Selective Catalysis. 2016 , 55, 3685-9	356
632	Synthesis of Monodisperse Palladium Nanoclusters Using Metal-Organic Frameworks as Sacrificial Templates. 2016 , 2, 810-815	15
631	Metal-Metalloporphyrin Framework Modified with Flexible tert-Butyl Groups for Selective Gas Adsorption. 2016 , 81, 714-717	7
630	Anionic Metal-Organic Framework for Selective Dye Removal and CO ₂ Fixation. 2016 , 2016, 4373-4377	55
629	Inserting CO ₂ into Aryl C-H Bonds of Metal-Organic Frameworks: CO ₂ Utilization for Direct Heterogeneous C-H Activation. 2016 , 55, 5472-6	122

628	Doxorubicin-Loaded Metal-Organic Gels for pH and Glutathione Dual-Responsive Release. 2016 , 2, 504-508	26
627	Multifunctional Luminescent Eu(III)-Based Metal-Organic Framework for Sensing Methanol and Detection and Adsorption of Fe(III) Ions in Aqueous Solution. 2016 , 55, 12660-12668	166
626	Mikroemulsionen: neue Möglichkeiten zur Erweiterung der Synthese anorganischer Nanopartikel. 2016 , 128, 15958-15984	5
625	Study of the supramolecular interactions of carboxylic acids used as versatile ligands in coordination chemistry. 2016 , 57, 1235-1242	3
624	Order-disorder phase transition and multiferroic behaviour in a metal organic framework compound (CH ₃) ₂ NH ₂ Co(HCOO) ₃ . 2016 , 119, 064103	29
623	N-vinyl pyrrolidone promoted aqueous-phase dehydrogenation of formic acid over PVP-stabilized Ru nanoclusters. 2016 , 59, 1342-1347	7
622	Crystal structure, vibrational studies, optical properties and TG-DTA investigations of a new chlorocadmate templated by 1-methylimidazolium. 2016 , 32, 253-260	2
621	Rationally tuning the separation performances of [M ₃ (HCOO) ₆] frameworks for CH ₄ /N ₂ mixtures via metal substitution. 2016 , 225, 456-464	23
620	Molecular simulation studies of hydrogen enriched methane (HEM) storage in Covalent Organic Frameworks. 2016 , 231, 138-146	6
619	Silver(I) and Thioether-bis(pyrazolyl)methane Ligands: The Correlation between Ligand Functionalization and Coordination Polymer Architecture. 2016 , 16, 3543-3552	21
618	Metal-Organic and supramolecular lead(II) networks assembled from isomeric nicotinoylhydrazone blocks: the effects of ligand geometry and counter-ion on topology and supramolecular assembly. 2016 , 18, 5375-5385	38
617	Selective O ₂ Sorption at Ambient Temperatures via Node Distortions in Sc-MIL-100. 2016 , 28, 3327-3336	29
616	Selective separation of CO ₂ /CH ₄ mixed gases via magnesium aminoethylphosphonate nanoparticles. 2016 , 6, 12446-12452	3
615	Pore engineering of metal-organic frameworks: introduction of chemically accessible Lewis basic sites inside MOF channels. 2016 , 18, 3524-3550	31
614	Photocatalytic Cr(VI) reduction in metal-organic frameworks: A mini-review. 2016 , 193, 198-216	375
613	Thermal and plasma synthesis of metal oxide nanoparticles from MOFs with SERS characterization. 2016 , 84, 146-152	4
612	Poly[tetraaquatriglutaratodicerium(III) decahydrate], a novel luminescent metal-organic framework possessing hydrophilic hexagonal channels. <i>Journal of Chemical Sciences</i> , 2016 , 128, 1385-1393	1.8 1
611	Natural gas sorption evaluation on microporous materials. 2016 , 235, 170-177	17

- 610 Discrete Complexes and One-Dimensional Coordination Polymers with [Cu(II)(2,2'-bpy)]²⁺ and [Cu(II)(phen)]²⁺ Corner Fragments: Insight into Supramolecular Structure and Optical Properties. **2016**, 16, 6275-6285 20
- 609 An anionic metal-organic framework based on angular tetracarboxylic acid and a mononuclear copper ion for selective gas adsorption. **2016**, 3, 1411-1418 27
- 608 A Highly Chemically Stable Metal-Organic Framework as a Luminescent Probe for the Regenerable Ratiometric Sensing of pH. *Chemistry - A European Journal*, **2016**, 22, 13023-7 4.8 62
- 607 Effect of the synthesis temperature on the dimensionality of hybrid fluorozincates. **2016**, 188, 164-170 8
- 606 Four metal-organic frameworks based on a semirigid tripodal ligand and different secondary building units: structures and electrochemical performance. **2016**, 18, 6841-6848 20
- 605 Postsynthetic Modification of Zirconium Metal-Organic Frameworks. **2016**, 2016, 4310-4331 146
- 604 Resistive Switching Nanodevices Based on Metal-Organic Frameworks. **2016**, 2, 67-73 42
- 603 Four new 3D metal-organic frameworks constructed by the asymmetrical pentacarboxylate: gas sorption behaviour and magnetic properties. **2016**, 45, 15473-15480 28
- 602 Performance of a novel defined zirconium metal-organic frameworks adsorption membrane in fluoride removal. **2016**, 484, 162-172 85
- 601 Postextraction Separation, On-Board Storage, and Catalytic Conversion of Methane in Natural Gas: A Review. **2016**, 116, 11436-11499 104
- 600 A microporous Cu-MOF with optimized open metal sites and pore spaces for high gas storage and active chemical fixation of CO₂. *Chemical Communications*, **2016**, 52, 11147-50 5.8 101
- 599 Electrochemical activity of Fe-MIL-100 as a positive electrode for Na-ion batteries. **2016**, 4, 13764-13770 12
- 598 Redox-active metal-organic frameworks as electrode materials for batteries. **2016**, 41, 883-889 27
- 597 N-donor position-induced diverse architectures of polyoxovanadate-based hybrid materials: Structures, fluorescence and photocatalytic activities. **2016**, 73, 152-156 5
- 596 Conformation-controlled hydrogen storage in the CAU-1 metal-organic framework. **2016**, 18, 29258-29267 12
- 595 A metal-organic framework-derived nanoporous carbon/iron composite for enrichment of endocrine disrupting compounds from fruit juices and milk samples. **2016**, 8, 3528-3535 22
- 594 Metal-organic frameworks as biosensors for luminescence-based detection and imaging. **2016**, 6, 20160027 109
- 593 Single-Crystal-to-Single-Crystal Breathing and Guest Exchange in CoII Metal-Organic Frameworks. **2016**, 16, 5247-5259 22

592	Microemulsions: Options To Expand the Synthesis of Inorganic Nanoparticles. 2016 , 55, 15728-15752	54
591	Imparting amphiphobicity on single-crystalline porous materials. 2016 , 7, 13300	104
590	Efficient and recyclable copper-based MOF-catalyzed N-arylation of N-containing heterocycles with aryl iodides. 2016 , 14, 10861-10865	21
589	A Multi-responsive Regenerable Europium-Organic Framework Luminescent Sensor for Fe ³⁺ , Cr ⁶⁺ Anions, and Picric Acid. <i>Chemistry - A European Journal</i> , 2016 , 22, 18769-18776	4.8 212
588	High-Throughput Screening to Investigate the Relationship between the Selectivity and Working Capacity of Porous Materials for Propylene/Propane Adsorptive Separation. 2016 , 120, 24224-24230	24
587	Inserting CO ₂ into Aryl C-H Bonds of Metal-Organic Frameworks: CO ₂ Utilization for Direct Heterogeneous C-H Activation. 2016 , 128, 5562-5566	36
586	Solvent-mediated secondary building units (SBUs) diversification in a series of MnII-based metal-organic frameworks (MOFs). 2016 , 241, 18-25	15
585	Selectivity in Gas Adsorption by Molecular Cucurbit[6]uril. 2016 , 120, 13911-13921	35
584	Site Partition: Turning One Site into Two for Adsorbing CO ₂ . 2016 , 7, 2568-72	15
583	Commensurate CO ₂ Capture, and Shape Selectivity for HCCH over H ₂ CCH ₂ , in Zigzag Channels of a Robust Cu(I)(CN)(L) Metal-Organic Framework. 2016 , 55, 6195-200	17
582	Metal organic frameworks mimicking natural enzymes: a structural and functional analogy. 2016 , 45, 4127-70	283
581	Organic Linker Defines the Excited-State Decay of Photocatalytic MIL-125(Ti)-Type Materials. 2016 , 9, 388-95	67
580	Pd Nanocubes@ZIF-8: Integration of Plasmon-Driven Photothermal Conversion with a Metal-Organic Framework for Efficient and Selective Catalysis. 2016 , 128, 3749-3753	99
579	Application of metal-organic frameworks for purification of vegetable oils. 2016 , 190, 103-109	40
578	Applications of metal-organic frameworks featuring multi-functional sites. 2016 , 307, 106-129	389
577	Phthalazinone structure-based covalent triazine frameworks and their gas adsorption and separation properties. 2016 , 6, 12009-12020	40
576	Applicability of using CO ₂ adsorption isotherms to determine BET surface areas of microporous materials. 2016 , 224, 294-301	71
575	A Comprehensive Set of High-Quality Point Charges for Simulations of Metal-Organic Frameworks. 2016 , 28, 785-793	95

574	CO ₂ capture under humid conditions in NH ₂ -MIL-53(Al): the influence of the amine functional group. 2016 , 6, 9978-9983		30
573	A novel copper(II)–lanthanum(III) metal organic framework as a selective catalyst for the aerobic oxidation of benzylic hydrocarbons and cycloalkenes. 2016 , 6, 3727-3736		34
572	From pink to blue and back to pink again: changing the Co(II) ligation in a two-dimensional coordination network upon desolvation. 2016 , 18, 384-389		14
571	Modulating the rate of charge transport in a metal-organic framework thin film using host:guest chemistry. <i>Chemical Communications</i> , 2016 , 52, 1705-8	5.8	51
570	High-temperature post-processing treatment of silica nanofoams of controlled pore sizes and porosities. 2016 , 90, 815-819		8
569	Copper Benzenetricarboxylate Metal-Organic Framework Nucleation Mechanisms on Metal Oxide Powders and Thin Films Formed by Atomic Layer Deposition. 2016 , 8, 9514-22		52
568	Predicting 1,3,5,7-tetrakis(4-aminophenyl)adamantine based covalent-organic frameworks as hydrogen storage materials. 2016 , 6, 21517-21525		4
567	New metal–organic frameworks constructed by 2,5-bis(3-pyridyl)-3,4-diaza-2,4-hexadiene and dicarboxylic ligands: Enhanced photocatalytic effect. 2016 , 66, 36-40		8
566	Discovery of a Bipolar Charging Mechanism in the Solid-State Electrochemical Process of a Flexible Metal–Organic Framework. 2016 , 28, 1298-1303		84
565	Amino acids as highly efficient modulators for single crystals of zirconium and hafnium metal–organic frameworks. 2016 , 4, 6955-6963		100
564	Nanocomposites of zeolitic imidazolate frameworks on graphene oxide for pseudocapacitor applications. 2016 , 46, 441-450		45
563	Recent advances in the photovoltaic applications of coordination polymers and metal organic frameworks. 2016 , 4, 3991-4002		97
562	Low temperature mechanism of adsorption of methane: Comparison between homogenous and heterogeneous pores. 2016 , 496, 86-93		8
561	Synthesis of highly efficient MnO _x catalyst for low-temperature NH ₃ -SCR prepared from Mn-MOF-74 template. 2016 , 168, 17-19		66
560	Encapsulating Cu nanoparticles into metal-organic frameworks for nonenzymatic glucose sensing. 2016 , 227, 583-590		117
559	N-hydroxyphthalimide incorporated onto Cu-BTC metal organic frameworks: An novel catalyst for aerobic oxidation of toluene. 2016 , 42, 5527-5539		12
558	Ionothermal synthesis and proton-conductive properties of NH ₂ -MIL-53 MOF nanomaterials. 2016 , 18, 525-528		42
557	Heteropoly acid encapsulated into zeolite imidazolate framework (ZIF-67) cage as an efficient heterogeneous catalyst for Friedel–Crafts acylation. 2016 , 233, 303-310		71

556	MOF-71 as a degradation product in single crystal to single crystal transformation of new three-dimensional Co(II) 1,4-benzenedicarboxylate. 2016 , 18, 38-41		20
555	A lead-porphyrin metal-organic framework: gas adsorption properties and electrocatalytic activity for water oxidation. 2016 , 45, 61-5		65
554	Two Zinc Based Coordination Compounds Constructed from Two Azophenyl Ligands: Syntheses, Crystal Structure, and Photocatalytic Performance. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016 , 26, 276-284	3.2	6
553	Adsorption of fluoride to UiO-66-NH ₂ in water: Stability, kinetic, isotherm and thermodynamic studies. 2016 , 461, 79-87		196
552	Improved synthesis of trigone trimer cluster metal organic framework MIL-100Al by a later entry of methyl groups. <i>Chemical Communications</i> , 2016 , 52, 725-8	5.8	12
551	Enriched Methane. 2016 ,		1
550	Crystal structure and characterization of a novel luminescent 2D metal-organic framework, poly[aquaitaconatocalcium(II)] possessing an open framework structure with hydrophobic channels. 2016 , 1105, 316-321		14
549	Conceptual density functional theory (DFT) approach to all-metal aromaticity and hydrogen storage. 2016 , 243-280		
548	Two cadmium(II) coordination polymers constructed from dicarboxylate and bis(imidazole) ligands: Syntheses, crystal structures, luminescence and photocatalytic properties. 2016 , 439, 130-137		15
547	Ionic metal-organic frameworks (iMOFs): Design principles and applications. 2016 , 307, 313-341		212
546	Spectral and dynamical properties of a Zr-based MOF. 2016 , 18, 5112-20		26
545	U(VI) capture from aqueous solution by highly porous and stable MOFs: UiO-66 and its amine derivative. 2016 , 307, 269-276		129
544	Impact of the strength and spatial distribution of adsorption sites on methane deliverable capacity in nanoporous materials. 2017 , 159, 18-30		23
543	Evaluation of drug loading capabilities of β-cyclodextrin-metal organic frameworks by high performance liquid chromatography. 2017 , 1488, 37-44		26
542	Understanding the Origin of Irreversible Capacity loss in Non-Carbonized Carbonate Based Metal Organic Framework (MOF) Sulfur hosts for Lithium Sulfur battery. 2017 , 229, 208-218		44
541	Application of metal organic frameworks. 2017 , 66, 731-744		116
540	Imparting surface hydrophobicity to metal-organic frameworks using a facile solution-immersion process to enhance water stability for CO capture. 2017 , 9, 2003-2008		52
539	Nanoporous triptycene based network polyamides (TBPs) for selective CO ₂ uptake. 2017 , 111, 275-284		37

538	Dispersion of nickel nanoparticles in the cages of metal-organic framework: An efficient sorbent for adsorptive removal of thiophene. 2017 , 315, 469-480	60
537	Nanoporous Materials for the Onboard Storage of Natural Gas. 2017 , 117, 1796-1825	170
536	Two novel 2D coordination polymers constructed from 5-aminoisophthalic acid and 4,4'-bipyridyl ligands: Syntheses, crystal structure, and photocatalytic performance. 2017 , 1135, 129-137	12
535	Temperature-Dependent in Situ Studies of Volatile Molecule Trapping in Low-Temperature-Activated Zr Alloy-Based Getters. 2017 , 121, 3381-3396	4
534	Enhancing the biofuel upgrade performance for Pd nanoparticles via increasing the support hydrophilicity of metal-organic frameworks. 2017 , 201, 317-326	21
533	Porous materials: Lining up metal-organic frameworks. 2017 , 16, 283-284	6
532	Stepwise observation and quantification and mixed matrix membrane separation of CO within a hydroxy-decorated porous host. 2017 , 8, 3239-3248	13
531	Pressure inverse solubility and polymorphism of an edible Cyclodextrin-based metal-organic framework. 2017 , 19, 9086-9091	13
530	Filtration of chlorine and hydrogen chloride gas by engineered UiO-66-NH metal-organic framework. 2017 , 332, 162-167	19
529	Metal-Organic Frameworks Derived Okra-like SnO Encapsulated in Nitrogen-Doped Graphene for Lithium Ion Battery. 2017 , 9, 14309-14318	64
528	A new mfi-type metal-organic framework constructed from a methoxyl derived V-shaped ligand and its H ₂ , CO ₂ and CH ₄ adsorption properties. 2017 , 7, 21268-21272	18
527	Synthesis, structural characterization and antitumor activity of a Ca(II) coordination polymer based on 4-formyl-1,3-benzenedisulfonate-2-furoic acid hydrazide ligands. 2017 , 62, 242-245	21
526	Conducting polymer coated metal-organic framework nanoparticles: Facile synthesis and enhanced electromagnetic absorption properties. 2017 , 228, 18-24	138
525	Metal-Organic Framework-Derived Non-Precious Metal Nanocatalysts for Oxygen Reduction Reaction. 2017 , 7, 1700363	228
524	Temperature Treatment of Highly Porous Zirconium-Containing Metal-Organic Frameworks Extends Drug Delivery Release. 2017 , 139, 7522-7532	216
523	Controllable Preparation of Nanoscale Metal-Organic Frameworks by Ionic Liquid Microemulsions. 2017 , 56, 5899-5905	23
522	An anionic metal-organic framework constructed from a triazole-functionalized diisophthalate featuring hierarchical cages for selective adsorptive C ₂ H ₂ /CH ₄ and CO ₂ /CH ₄ separation. 2017 , 19, 2795-2801	30
521	A convenient electrolytic assembly of graphene-MOF composite thin film and its photoanodic application. 2017 , 396, 1303-1309	42

520	Metal-Organic Frameworks for Carbon Dioxide Capture and Methane Storage. 2017 , 7, 1601296		260
519	Anodized Aluminum Oxide Templated Synthesis of Metal-Organic Frameworks Used as Membrane Reactors. 2017 , 56, 578-581		42
518	Metal-organic frameworks meet metal nanoparticles: synergistic effect for enhanced catalysis. 2017 , 46, 4774-4808		1137
517	Solid-state NMR Studies of Host-Guest Interaction between UiO-67 and Light Alkane at Room Temperature. 2017 , 121, 14261-14268		19
516	Designing porous electronic thin-film devices: band offsets and heteroepitaxy. 2017 , 201, 207-219		26
515	CO ₂ capture on amine impregnated mesoporous alumina-silica mixed oxide spheres. 2017 , 166, 202-208		12
514	Unravelling chromism in metal-organic frameworks. 2017 , 19, 4238-4259		58
513	Grand Challenges and Future Opportunities for Metal-Organic Frameworks. 2017 , 3, 554-563		236
512	Reversible Low-Temperature Metal Node Distortion during Atomic Layer Deposition of AlO and TiO on UiO-66-NH Metal-Organic Framework Crystal Surfaces. 2017 , 9, 22042-22054		49
511	New Zinc functionalized metal organic Framework for selective sensing of chromate ion. 2017 , 251, 644-649		19
510	Resonant-Gravimetric Identification of Competitive Adsorption of Environmental Molecules. 2017 , 89, 7031-7037		15
509	Hydrogen storage behavior of LiBH ₄ improved by the confinement of hierarchical porous ZnO/ZnCo ₂ O ₄ nanoparticles. 2017 , 359, 134-141		18
508	Two 3D nonlinear optical and luminescent lanthanide-organic frameworks with multidirectional helical intersecting channels. <i>New Journal of Chemistry</i> , 2017 , 41, 6736-6741	3.6	5
507	Nanostructured Materials for Next-Generation Energy Storage and Conversion. 2017 ,		4
506	Interaction-induced light scattering in thin neon film confined between graphite slabs: MD study. 2017 , 245, 71-75		
505	Lattice-Gas Modeling of Adsorbate Diffusion in Mixed-Linker Zeolitic Imidazolate Frameworks: Effect of Local Imidazolate Ordering. 2017 , 33, 6481-6491		8
504	A Cd mixed-ligand MOF showing ligand-disorder induced breathing behaviour at high temperature and stepwise, selective carbon dioxide adsorption at low temperature. 2017 , 19, 3607-3618		13
503	Sandwich-like electrochemical micromachining of micro-dimples using a porous metal cathode. 2017 , 311, 357-364		21

502	Cu nanoparticles decorated Cu organic framework based efficient and reusable heterogeneous catalyst for coupling reactions. 2017 , 433, 100-110	13
501	Tracking the evolution and differences between guest-induced phases of Ga-MIL-53 via ultra-wideline Ga solid-state NMR spectroscopy. 2017 , 84, 118-131	15
500	A highly stable polyoxometalate-based metal-organic framework with β -stacking for enhancing lithium ion battery performance. 2017 , 5, 8477-8483	96
499	Retracted Article: Potential applications of functional porous organic polymer materials. 2017 , 5, 8795-8824	76
498	Construction of a novel Cd(II) coordination polymer based on a flexible tripodal carboxylic acid and bimid coligands. 2017 , 79, 17-20	5
497	Synthesis of highly efficient Mn ₂ O ₃ catalysts for CO oxidation derived from Mn-MIL-100. 2017 , 411, 27-33	136
496	Anodized Aluminum Oxide Templated Synthesis of Metal-Organic Frameworks Used as Membrane Reactors. 2017 , 129, 593-596	15
495	Quantifying Thermal Disorder in Metal-Organic Frameworks: Lattice Dynamics and Molecular Dynamics Simulations of Hybrid Formate Perovskites. 2017 , 121, 421-429	12
494	Determining the specific surface area of Metal Organic Frameworks based on a computational approach. 2017 , 526, 14-19	1
493	Sulfate-Rich Metal-Organic Framework for High Efficiency and Selective Removal of Barium from Nuclear Wastewater. 2017 , 56, 13866-13873	17
492	Molecular Modeling of MOF Membranes for Gas Separations. 2017 , 97-143	
491	Temperature dependence of Cu ₂ Al spinel formation and its catalytic performance in methanol steam reforming. 2017 , 7, 5069-5078	23
490	Selective Hybridization of a Terpyridine-Based Molecule with a Noble Metal. 2017 , 121, 23574-23581	2
489	A robust viologen and Mn-based porous coordination polymer with two types of Lewis acid sites providing high affinity for HO, CO and NH ₃ . 2017 , 46, 15666-15670	9
488	A one-dimensional copper(II) coordination polymer incorporating succinate and N,N-diethylethylenediamine ligands: crystallographic analysis, vibrational and surface features, and DFT analysis. 2017 , 73, 517-524	18
487	Designing new catalytic nanoreactors for the regioselective epoxidation of geraniol by the post-synthetic immobilization of oxovanadium(IV) complexes on a Zr(IV)-based metal-organic framework. 2017 , 122, 961-981	11
486	Interatomic interactions in M ₂ (C ₈ H ₄ O ₄) ₂ C ₆ H ₁₂ N ₂ (M = Zn, Cu, Co, Ni) metal-organic framework polymers: X-ray photoelectron spectroscopy, QTAIM and ELF study. 2017 , 1150, 268-273	7
485	Optimal Size of a Cylindrical Pore for Post-Combustion CO ₂ Capture. 2017 , 121, 22025-22030	7

484	Anharmonic Origin of Giant Thermal Displacements in the Metal-Organic Framework UiO-67. 2017 , 121, 22010-22014		3
483	Angstrom-Resolved Metal-Organic Framework-Liquid Interfaces. 2017 , 7, 11088		7
482	Calcium and Strontium Coordination Polymers Based on Rigid and Flexible Aromatic Dicarboxylates: Synthesis, Structure, Photoluminescence and Dielectric Properties. 2017 , 2, 8567-8576		9
481	A stable and long-lasting concentration cell based on a reduced graphene oxide membrane and natural resource electrolyte. 2017 , 5, 21130-21133		2
480	Network Dimensionality of Selected Uranyl(VI) Coordination Polymers and Octopus-like Uranium(IV) Clusters. 2017 , 17, 5568-5582		14
479	Room-temperature fabrication of a three-dimensional porous silicon framework inspired by a polymer foaming process. <i>Chemical Communications</i> , 2017 , 53, 8858-8861	5.8	5
478	Iron-based metal-organic frameworks (MOFs) for visible-light-induced photocatalysis. 2017 , 43, 5169-5186		56
477	A computational approach towards understanding hydrogen gas adsorption in Co-MIL-88A. 2017 , 7, 39583-39593		6
476	A novel photo-active Cd:1,4-benzene dicarboxylate metal organic framework templated using [Ru(ii)(2,2'-bipyridine)]: synthesis and photophysics of RWLC-5. 2017 , 46, 12711-12716		12
475	A family of ssa-type copper-based MOFs constructed from unsymmetrical diisophthalates: synthesis, characterization and selective gas adsorption. 2017 , 1, 2283-2291		27
474	A Recyclable Metal-Organic Framework as a Dual Detector and Adsorbent for Ammonia. <i>Chemistry - A European Journal</i> , 2017 , 23, 13602-13606	4.8	40
473	Metal-organic frameworks meet scalable and sustainable synthesis. 2017 , 19, 2729-2747		220
472	Direct Electrical Detection of Iodine Gas by a Novel Metal-Organic-Framework-Based Sensor. 2017 , 9, 44649-44655		43
471	Zinc(ii), cobalt(ii) and manganese(ii) networks with phosphoserine ligand: synthesis, crystal structures and magnetic and proton conductivity properties. 2017 , 46, 16570-16579		7
470	Computational screening of functional groups for capture of toxic industrial chemicals in porous materials. 2017 , 19, 31766-31772		1
469	Based on a V-shaped In(III) metal-organic framework (MOF): Design, synthesis and characterization of diverse physical and chemical properties. 2017 , 134, 207-214		8
468	ZnO Nanoparticle Fortified Highly Permeable Carbon/Silica Monoliths as a Flow-Through Media. 2017 , 33, 7692-7700		5
467	Schiff base anchored on metal-organic framework for Co (II) removal from aqueous solution. 2017 , 326, 691-699		68

466	Flexible Force Field Parameterization through Fitting on the Ab Initio-Derived Elastic Tensor. 2017 , 13, 3722-3730	11
465	Scalable solvent-free preparation of [Ni ₃ (HCOO) ₆] frameworks for highly efficient separation of CH ₄ from N ₂ . 2017 , 327, 564-572	37
464	Formation of ZIF-8 membranes inside porous supports for improving both their H ₂ /CO ₂ separation performance and thermal/mechanical stability. 2017 , 540, 430-439	32
463	Structural diversity of alkaline-earth 2,5-thiophenedicarboxylates. 2017 , 1131, 171-180	11
462	Significantly Improved Electrocatalytic Activity of Copper-Based Structures that Evolve from a Metal-Organic Framework Induced by Cathodization Treatment. 2017 , 4, 246-251	3
461	Nanoporous metal organic frameworks as hybrid polymer-metal composites for drug delivery and biomedical applications. 2017 , 22, 625-637	151
460	Three two-dimensional coordination polymers constructed from transition metals and 2,3-norbornedicarboxylic acid: Hydrothermal synthesis, crystal structures and photocatalytic properties. 2017 , 1130, 223-230	14
459	Activated carbon and metal organic framework as adsorbent for low-pressure methane storage applications: an overview. 2017 , 24, 905-922	17
458	New Eco-Friendly Phosphorus Organic Polymers as Gas Storage Media. 2017 , 9,	25
457	Microwave-enhanced Fenton-like degradation by surface-modified metal-organic frameworks as a promising method for removal of dye from aqueous samples. 2017 , 41, 426-439	12
456	Differences in Phase Change Processes Upon Heating Between Co and Zn-ZIF-4 Compounds. 2018 , 13, 1850025	3
455	ZIF-8 with Ferrocene Encapsulated: A Promising Precursor to Single-Atom Fe Embedded Nitrogen-Doped Carbon as Highly Efficient Catalyst for Oxygen Electroreduction. 2018 , 14, e1704282	148
454	Bioinspired Electrocatalysis of Oxygen Reduction Reaction in Fuel Cells Using Molecular Catalysts. 2018 , 30, e1800406	35
453	Porous Cellulose Acetate by Specific Solvents with Water Pressure Treatment for Applications to Separator and Membranes. 2018 , 26, 630-633	6
452	Vacancy defect configurations in the metal-organic framework UiO-66: energetics and electronic structure. 2018 , 6, 8507-8513	28
451	A Multifaceted Study of Methane Adsorption in Metal-Organic Frameworks by Using Three Complementary Techniques. <i>Chemistry - A European Journal</i> , 2018 , 24, 7866-7881	4.8 20
450	One-Step Synthesis of Hybrid Core-Shell Metal-Organic Frameworks. 2018 , 130, 3991-3996	20
449	One-Step Synthesis of Hybrid Core-Shell Metal-Organic Frameworks. 2018 , 57, 3927-3932	87

448	Tuning a layer to a three-dimensional cobalt-tris(4?-carboxybiphenyl)amine framework by introducing potassium ions. 2018 , 90, 65-68	4
447	Insights into the Stability of Zeolitic Imidazolate Frameworks in Humid Acidic Environments from First-Principles Calculations. 2018 , 122, 4339-4348	37
446	Azamacrocyclic-based metal organic frameworks: Design strategies and applications. 2018 , 145, 154-165	37
445	Nanopore-induced host-guest charge transfer phenomena in a metal-organic framework. 2018 , 9, 3282-3289	21
444	Mimic Carbonic Anhydrase Using Metal-Organic Frameworks for CO Capture and Conversion. 2018 , 57, 2169-2174	42
443	Rational construction of an ssa-type of MOF through pre-organizing the ligand's conformation and its exceptional gas adsorption properties. 2018 , 47, 2444-2452	27
442	A bifunctional photoluminescent metalorganic framework for detection of Fe ³⁺ ion and nitroaromatics. 2018 , 89, 68-72	14
441	Coordination Polymers Containing Metal Chelate Units. 2018 , 633-759	1
440	Mechanochemical Reactions of Metal-Organic Frameworks. 2018 , 403-434	10
439	New OLEDs Based on Zirconium Metal-Organic Framework. 2018 , 6, 1701060	32
438	Zone-Collapse Amorphization Mimicking the Negative Compressibility of a Porous Compound. 2018 , 18, 1082-1089	10
437	Flexibility in MetalOrganic Frameworks: A fundamental understanding. 2018 , 358, 125-152	119
436	Shape engineering of metalorganic frameworks. 2018 , 145, 1-15	116
435	Sphalerite Cu/ZnS Nanoparticles Derived from Cu/Zn-ZIF-8 for the Photocatalytic Degradation and Adsorption of Dyes. 2018 , 2018, 1038-1046	4
434	Adsorptive and photocatalytic removal of Persistent Organic Pollutants (POPs) in water by metal-organic frameworks (MOFs). 2018 , 337, 351-371	276
433	Exploiting a combined computational/experimental sorbent-injection vortex-assisted dispersive microsolid-phase extraction for chromatographic determination of priority phenolic pollutants in water samples. 2018 , 15, 685-695	1
432	Copper-based Metal-organic Framework for Non-enzymatic Electrochemical Detection of Glucose. 2018 , 30, 474-478	49
431	Engineered Transport in Microporous Materials and Membranes for Clean Energy Technologies. 2018 , 30, 1704953	67

430	TopoFF: MOF structure prediction using specifically optimized blueprints. 2018 , 211, 79-101	20
429	Slow Released Delivery of Alendronate Using β -Cyclodextrine Modified Fe-MOF Encapsulated Porous Hydroxyapatite. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018 , 28, 1991-2000	7
428	Two Anderson-type polyoxometalate-induced various Co-complexes based on a rigid pyrazine-bis(triazole) ligand. 2018 , 92, 151-156	2
427	Potential of metal-organic frameworks for adsorptive separation of industrially and environmentally relevant liquid mixtures. 2018 , 367, 82-126	73
426	A microcalorimetric study of methane adsorption on activated carbons obtained from mangosteen peel at different conditions. 2018 , 132, 525-541	8
425	Methane storage capacity of carbon fullerenes and their mechanical and electronic properties: Experimental and theoretical study. 2018 , 211, 192-199	3
424	Green Approach To Synthesize Crystalline Nanoscale Zn-Coordination Polymers: Cell Growth Inhibition and Immunofluorescence Study. 2018 , 57, 4050-4060	95
423	Postsynthetic Linker Exchange in Metal-Organic Frameworks. 2018 , 143-182	2
422	$K_1Mn_{1+2}[Fe(CN)_6]_y \cdot H_2O$ Prussian blue analogues as an anode material for lithium-ion batteries. 2018 , 444, 650-660	24
421	Templated Assembly of a Functional Ordered Protein Macromolecular Framework from P22 Virus-like Particles. 2018 , 12, 3541-3550	37
420	A novel zinc(II) complex containing square pyramidal, octahedral and tetrahedral geometries on the same polymeric chain constructed from pyrazine-2,3-dicarboxylic acid and 1-vinylimidazole. <i>Journal of Chemical Sciences</i> , 2018 , 130, 1	1.8 4
419	g-C ₃ N ₄ /UiO-66 nanohybrids with enhanced photocatalytic activities for the oxidation of dye under visible light irradiation. 2018 , 99, 349-358	235
418	Study of synthesis parameters of MIL-53(Al) using experimental design methodology for CO ₂ /CH ₄ separation. 2018 , 36, 247-269	12
417	CO ₂ adsorption on activated carbon prepared from mangosteen peel. 2018 , 133, 337-354	10
416	Porous metal-organic frameworks for fuel storage. 2018 , 373, 167-198	169
415	Metal-Organic Frameworks (MOFs) as Functional Supramolecular Architectures for Anion Recognition and Sensing. 2018 , 18, 154-164	26
414	Triptycene based microporous polymers (TMPs): Efficient small gas (H ₂ and CO ₂) storage and high CO ₂ /N ₂ selectivity. 2018 , 257, 253-261	26
413	A kinetic study of facile fabrication of MIL-101(Cr) metal-organic framework: Effect of synthetic method. 2018 , 471, 513-520	9

412	Metal-Organic Frameworks as Platforms for Catalytic Applications. 2018 , 30, e1703663	833
411	Heavy metal ion removal of wastewater by zeolite-imidazolate frameworks. 2018 , 194, 462-469	175
410	Rational Fabrication of Polyethylenimine-Linked Microbeads for Selective CO ₂ Capture. 2018 , 57, 250-258	24
409	Synthesis of octahedral like Cu-BTC derivatives derived from MOF calcined under different atmosphere for application in CO oxidation. 2018 , 258, 582-587	100
408	Combined quantum mechanical and molecular mechanical method for metal-organic frameworks: proton topologies of NU-1000. 2018 , 20, 1778-1786	10
407	Structures and properties of five metalorganic frameworks based on 3,3',5,5'-azoxybenzenetetracarboxylic acid and different secondary building units. 2018 , 471, 459-466	1
406	Methane Storage in Biosilica-Supported Semiclathrates at Ambient Temperature and Pressure. 2018 , 301, 012033	1
405	Sensing ensembles for nitroaromatics. 2018 , 6, 12142-12158	33
404	Mussel-inspired polydopamine chemistry to modulate template synthesis of 1D metalorganic framework superstructures. 2018 , 6, 21567-21576	12
403	Bimetallic RuM (M=Co, Ni) Alloy NPs Supported on MIL-110(Al): Synergetic Catalysis in Hydrolytic Dehydrogenation of Ammonia Borane. 2018 , 31, 99-110	5
402	Next Generation Safe Delivery Source (SDS4) Dopant Material Storage and Delivery Package. 2018 ,	0
401	Synthesis and enhanced visible light-induced photocatalytic activity of a hierarchical porous biomorphic N/ZnTiO ₂ @NH ₂ -MIL-125 photocatalyst. 2018 , 29, 20356-20366	2
400	Novel Ni-IRMOF-74 Postsynthetically Functionalized for H ₂ Storage Applications. 2018 , 122, 28123-28132	10
399	Recent Hydrophobic Metal-Organic Frameworks and Their Applications. 2018 , 11,	32
398	A Dynamic, Breathing, Water-Stable, Partially Fluorinated, Two-Periodic, Mixed-Ligand Zn(II) MetalOrganic Framework Modulated by Solvent Exchange Showing a Large Change in Cavity Size: Gas and Vapor Sorption Studies. 2018 , 18, 7570-7578	9
397	MOF-GO Hybrid Nanocomposite Adsorbents for Methane Storage. 2018 , 57, 17470-17479	33
396	Metal-Organic Framework (MOF)-Based Materials as Heterogeneous Catalysts for C-H Bond Activation. <i>Chemistry - A European Journal</i> , 2019 , 25, 2935-2948	4.8 41
395	Exploring Local Disorder within CAU-1 Frameworks Using Hyperpolarized Xe NMR Spectroscopy. 2018 , 34, 12538-12548	9

394	Investigation of Missing-Cluster Defects in UiO-66 and Ferrocene Deposition into Defect-Induced Cavities. 2018 , 57, 14233-14241	25
393	Autoluminescent Metal-Organic Frameworks (MOFs): Self-Photoemission of a Highly Stable Thorium MOF. 2018 , 140, 14144-14149	33
392	Photoluminescent, upconversion luminescent and nonlinear optical metal-organic frameworks: From fundamental photophysics to potential applications. 2018 , 377, 259-306	103
391	An Emerging Family of Hybrid Nanomaterials: Metal-Organic Framework/Aerogel Composites. 2018 , 1, 5959-5980	47
390	Exfoliating Polyoxometalate-Encapsulating Metal-Organic Framework into Two-Dimensional Nanosheets for Superior Oxidative Desulfurization. 2018 , 10, 5386-5390	23
389	Rational Construction of Highly Tunable Donor-Acceptor Materials Based on a Crystalline Host-Guest Platform. 2018 , 30, e1804715	90
388	Predicting the Features of Methane Adsorption in Large Pore Metal-Organic Frameworks for Energy Storage. 2018 , 8,	12
387	Mixing Effect of Ligand on Carbon Dioxide Capture Behavior of Zeolitic Imidazolate Framework/Poly(amide-b-ethylene oxide) Mixed Matrix Membranes. 2018 , 6, 15341-15348	17
386	Versatile and Efficient Mechanochemical Synthesis of Crystalline Guest-Zeolitic Imidazolate Framework Complexes by in Situ Host-Guest Nanoconfinement. 2018 , 18, 5845-5852	5
385	Structure modulation from unstable to stable MOFs by regulating secondary N-donor ligands. 2018 , 47, 14025-14032	16
384	Liquid, glass and amorphous solid states of coordination polymers and metal-organic frameworks. 2018 , 3, 431-440	183
383	Characterization of Inclusion Complex of Coenzyme Q10 with the New Carrier CD-MOF-1 Prepared by Solvent Evaporation. 2018 , 19, 3048-3056	10
382	Exploration of Intrinsic Lipase-Like Activity of Zirconium-Based Metal-Organic Frameworks. 2018 , 2018, 4579-4585	13
381	From fundamentals to applications: a toolbox for robust and multifunctional MOF materials. 2018 , 47, 8611-8638	656
380	Facile preparation of UiO-66 /PAM monoliths CO-in-water HIPes and their applications.. 2018 , 8, 32358-32367	20
379	Investigating the crystal engineering of the pillared paddlewheel metal-organic framework Zn ₂ (NH ₂ BDC) ₂ DABCO. 2018 , 20, 6082-6087	2
378	Pore-filling contamination in metal-organic frameworks. 2018 , 20, 23616-23624	4
377	Paraffinic metal-organic polyhedrons: solution-processable porous modules exhibiting three-dimensional molecular order. <i>Chemical Communications</i> , 2018 , 54, 7290-7293	5.8 14

376	Exploring the Effect of Ligand-Originated MOF Isomerism and Methoxy Group Functionalization on Selective Acetylene/Methane and Carbon Dioxide/Methane Adsorption Properties in Two NbO-Type MOFs. 2018 , 10, 20559-20568	40
375	Synthesis, spectroscopic characterization, crystal structure, Hirshfeld surface analysis and antimicrobial activities of two triazole Schiff bases and their silver complexes. 2018 , 482, 34-47	18
374	Characterization of hydrogen storage behavior of the as-synthesized p-type NiO/n-type CeO ₂ nanocomposites by carbohydrates as a capping agent: The influence of morphology. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 14557-14568	6.7 6
373	Design and synthesis of porous 3D MOFs hybrid functional materials encapsulating macrocyclic metal complexes. 2018 , 94, 114-118	2
372	Metal-organic frameworks as expanding hybrid carriers with diverse therapeutic applications. 2018 , 1-34	3
371	Cu-MOF: an efficient heterogeneous catalyst for the synthesis of symmetric anhydrides the C-H bond activation of aldehydes.. 2018 , 8, 24203-24208	12
370	Cu(II) coordination polymers stabilized by pyridine-2,6-dicarboxylate anion and pyrazole derivatives through ligand hydrolysis. 2018 , 71, 2658-2673	9
369	Synthesis of bimetallic Ni _x Co _{1-x} P hollow nanocages from metal-organic frameworks for high performance hybrid supercapacitors. 2018 , 285, 192-201	38
368	Structural diversities and gas adsorption properties of a family of rod-packing lanthanide-organic frameworks based on cyclotriphosphazene-functionalized hexacarboxylate derivatives. 2018 , 5, 2227-2237	31
367	Area negative thermal expansion in a mixed metal mixed organic MOF: Elevator-platform mechanism induced by O-H...O hydrogen bonding. 2018 , 20, 4719-4723	8
366	High performance HKUST-1@PVA-co-PE/PVA hybrid hydrogel with enhanced selective adsorption. 2018 , 10, 36-40	21
365	Coordination driven architectures based on metalloligands offering appended carboxylic acid groups. <i>Journal of Chemical Sciences</i> , 2018 , 130, 1	1.8 5
364	High-Pressure Methane Adsorption in Porous Lennard-Jones Crystals. 2018 , 9, 4275-4281	6
363	Copper Nanoparticle and Nitrogen Doped Graphite Oxide Based Biosensor for the Sensitive Determination of Glucose. 2018 , 8,	13
362	Photophysical properties of cationic dyes captured in the mesoscale channels of micron-sized metal-organic framework crystals. 2018 , 8, 9838	15
361	Suspension Processing of Microporous Metal-Organic Frameworks: A Scalable Route to High-Quality Adsorbents. 2018 , 5, 30-37	13
360	Synthesis of Zn-based metal-organic frameworks in ionic liquid microemulsions at room temperature.. 2018 , 8, 26237-26242	15
359	Reliability analysis of integral hot deep drawing and cold flow forming process for large-diameter seamless steel gas cylinders. 2018 , 97, 189-197	6

- 358 Methane Storage in Paddlewheel-Based Porous Coordination Cages. **2018**, 140, 11153-11157 68
- 357 The insights from X-ray absorption spectroscopy into the local atomic structure and chemical bonding of Metal-Organic frameworks. **2018**, 155, 232-253 23
- 356 Lanthanide Functionalized Metal-Organic Coordination Polymer: Toward Novel Turn-On Fluorescent Sensing of Amyloid β Peptide. **2018**, 90, 12449-12455 44
- 355 Fe₂O₃@TiO₂ Ceramic Nanocomposite Oxide: Characterization and Investigation of the Effect of Morphology on Its Electrochemical Hydrogen Storage Capacity. **2018**, 1, 4840-4848 14
- 354 Assembly of Two Metal-Organic Frameworks Based on Distinct Cobalt Dimeric Building Blocks Induced by Ligand Modification: Gas Adsorption and Magnetic Properties. **2018**, 57, 10401-10409 22
- 353 Investigation of a novel combination of adsorbents for hydrogen purification using Cu-BTC and conventional adsorbents in pressure swing adsorption. **2018**, 24, 481-498 5
- 352 Three ligand-originated MOF isomers: the positional effect of the methyl group on structures and selective CH₄/CH₂ and CO/CH₄ adsorption properties. **2018**, 47, 8983-8991 18
- 351 Green Layer-by-Layer Method for the Preparation of Polyacrylonitrile-Supported Zinc Benzene-1,4-dicarboxylic Acid Membranes. **2018**, 11, 2612-2619 17
- 350 Global diabatic potential energy surfaces for the BeH system and dynamics studies on the Be(P) + H(X) → BeH(X) + H(S) reaction. **2018**, 8, 22823-22834 8
- 349 Synthesis, crystallographic structure, DFT calculations and Hirshfeld surface analysis of a fumarate bridged Co(II) coordination polymer. **2018**, 1173, 42-51 32
- 348 A Co(II) framework derived from a tris(4-(triazol-1-yl)phenyl)amine redox-active linker: an electrochemical and magnetic study. **2018**, 47, 9341-9346 10
- 347 Operational Stability of a LOHC-Based Hot Pressure Swing Reactor for Hydrogen Storage. **2019**, 7, 146-152 26
- 346 Robust Corrole-Based Metal-Organic Frameworks with Rare 9-Connected Zr/Hf-Oxo Clusters. **2019**, 141, 14443-14450 48
- 345 Acetylene Storage and Separation Using Metal-Organic Frameworks with Open Metal Sites. **2019**, 11, 31499-31507 23
- 344 Theoretical prediction of thermal and electronic properties of metal-organic frameworks. **2019**, 80, 136-151 8
- 343 Household Aluminum Products as Insoluble Precursors for Directed Growth of Metal-Organic Frameworks. **2019**, 19, 5097-5104 7
- 342 [Ni(2,2'-bipy)3]Cl₂ activated sepiolite clay with high photocatalytic and oil/water separation abilities. **2019**, 80, 33-42 3
- 341 Reversible MOF-Based Sensors for the Electrical Detection of Iodine Gas. **2019**, 11, 27982-27988 29

340	Two $\text{Cu}(\text{OH})_2$ Decorated Anionic Metal-organic Frameworks with Open Cu^{2+} Sites Afforded Highly $\text{C}_2\text{H}_2/\text{CO}_2$ and $\text{C}_2\text{H}_2/\text{CH}_4$ Separation and Removal of Organic Dyes. 2019 , 645, 955-959	31
339	Sol-gel based metal-organic framework zeolite imidazolate framework-8 fibers for solid-phase microextraction of nitro polycyclic aromatic hydrocarbons and polycyclic aromatic hydrocarbons in water samples. 2019 , 1603, 92-101	44
338	Metal-Organic Frameworks in Green Analytical Chemistry. 2019 , 6, 33	40
337	Modulation versus Templating: Fine-Tuning of Hierarchally Porous PCN-250 Using Fatty Acids To Engineer Guest Adsorption. 2019 , 58, 12425-12430	23
336	Facile stabilization of a cyclodextrin metal-organic framework under humid environment hydrogen sulfide treatment.. 2019 , 9, 18271-18276	13
335	Modulation versus Templating: Fine-Tuning of Hierarchally Porous PCN-250 Using Fatty Acids To Engineer Guest Adsorption. 2019 , 131, 12555-12560	2
334	An extended Kozeny-Carman-Klinkenberg model for gas permeability in micro/nano-porous media. 2019 , 31, 112001	7
333	Investigating Adsorption/Desorption of DNA on ZIF-8 Surface by Fluorescently Labeled Oligonucleotides. 2019 , 35, 16290-16296	9
332	NO Adsorption and Optical Detection in Rare Earth Metal-Organic Frameworks. 2019 , 11, 43270-43277	37
331	Atomic- and Molecular-Level Design of Functional Metal-Organic Frameworks (MOFs) and Derivatives for Energy and Environmental Applications. 2019 , 6, 1901129	77
330	Morphology-control of metal-organic framework crystal for effective removal of dyes from water. 2019 , 279, 120950	7
329	Integrated Cleanroom Process for the Vapor-Phase Deposition of Large-Area Zeolitic Imidazolate Framework Thin Films. 2019 , 31, 9462-9471	29
328	Synthesis and Properties of a Compositional Series of MIL-53(Al) Metal-Organic Framework Crystal-Glass Composites. 2019 , 141, 15641-15648	23
327	Synergistic catalysis of Pd nanoparticles with both Lewis and Bronsted acid sites encapsulated within a sulfonated metal-organic frameworks toward one-pot tandem reactions. 2019 , 557, 207-215	16
326	Recent progress in the synthesis, structural diversity and emerging applications of cyclodextrin-based metal-organic frameworks. 2019 , 7, 5602-5619	27
325	Long-term entrapment and temperature-controlled-release of SF gas in metal-organic frameworks (MOFs). 2019 , 10, 1851-1859	4
324	Design of robust rod-packing $[\text{In}(\text{OH})(\text{BDC})]$ frameworks and their high $\text{CO}_2/\text{C}_2\text{-hydrocarbons}$ over CH_4 separation performance. 2019 , 279, 120936	8
323	Metal-organic frameworks as an emerging tool for sensing various targets in aqueous and biological media. 2019 , 120, 115654	29

- 322 A ligand conformation preorganization approach to construct a copper hexacarboxylate framework with a novel topology for selective gas adsorption. **2019**, 6, 263-270 36
- 321 Effective CO and CO Separation Using [M(DOBDC)] (M = Mg, Co, Ni) with Unsaturated Metal Sites and Excavation of Their Adsorption Sites. **2019**, 11, 7014-7021 29
- 320 The Rise of Metal-Organic Frameworks in Analytical Chemistry. **2019**, 463-502 6
- 319 Synthesis of bimetallic 4-PySI-Pd@Cu(BDC) via open metal site Cu-MOF: Effect of metal and support of Pd@Cu-MOFs in H₂ generation from formic acid. **2019**, 467, 30-37 69
- 318 Lanthanide coordination polymer-based biosensor for citrate detection in urine. **2019**, 11, 1405-1409 8
- 317 Intermediate states approach for adsorption studies in flexible metal-organic frameworks. **2019**, 21, 3294-3303 7
- 316 Cage-confinement of gas-phase ferrocene in zeolitic imidazolate frameworks to synthesize high-loading and atomically dispersed Fe^{II} codoped carbon for efficient oxygen reduction reaction. **2019**, 7, 16508-16515 50
- 315 High-pressure methane storage and selective gas adsorption in a cyclohexane-functionalised porous organic cage. **2019**, 31, 508-513 11
- 314 N-doped carbon nanodots@UiO-66-NH as novel nanoparticles for releasing of the bioactive drug, rosmarinic acid and fluorescence imaging. **2019**, 27, 307-315 8
- 313 Structure Optimisation of Large Transition-Metal Complexes with Extended Tight-Binding Methods. **2019**, 58, 11078-11087 38
- 312 Hierarchical Structure with Highly Ordered Macroporous-Mesoporous Metal-Organic Frameworks as Dual Function for CO Fixation. **2019**, 15, 514-523 29
- 311 Highly Active Ultrasmall Ni Nanoparticle Embedded Inside a Robust Metal-Organic Framework: Remarkably Improved Adsorption, Selectivity, and Solvent-Free Efficient Fixation of CO. **2019**, 58, 8100-8110 35
- 310 Structure Optimisation of Large Transition-Metal Complexes with Extended Tight-Binding Methods. **2019**, 131, 11195-11204 13
- 309 Four Co(II) - MOFs based on 3,3'-azodibenzoic acid ligand: Syntheses, crystal structure, photodegradation properties. **2019**, 277, 115-122 2
- 308 Fabrication of ZIF-67@MIL-125-NH₂ nanocomposite with enhanced visible light photoreduction activity. **2019**, 7, 103194 38
- 307 Tuning the CO₂ adsorption by the selection of suitable ionic liquids at ZIF-8 confinement: A DFT study. **2019**, 491, 633-639 18
- 306 Hydrophobic metal-organic frameworks: Potential toward emerging applications. **2019**, 7, 050701 26
- 305 Phosphotungstic acid grafted zeolite imidazolate framework as an effective heterogeneous nanocatalyst for the one-pot solvent-free synthesis of 3,4-dihydropyrimidinones. **2019**, 33, e4959 14

304	Kinetic Control of Interpenetration in Fe-Biphenyl-4,4'-dicarboxylate Metal-Organic Frameworks by Coordination and Oxidation Modulation. 2019 , 141, 8346-8357	31
303	Pore environment engineering in metal-organic frameworks for efficient ethane/ethylene separation. 2019 , 7, 13585-13590	63
302	CO ₂ Storage on Nanoporous Carbons. 2019 , 287-330	6
301	Selective decontamination of the reactive air pollutant nitrous acid node-linker cooperativity in a metal-organic framework. 2019 , 10, 5576-5581	22
300	Synthesis of Telmisartan Organotin(IV) Complexes and their use as Carbon Dioxide Capture Media. 2019 , 24,	16
299	Synthesis of porous TiO ₂ /ZrO ₂ photocatalyst derived from zirconium metal organic framework for degradation of organic pollutants under visible light irradiation. 2019 , 7, 103096	57
298	Strontium-Carboxylate-Based Coordination Polymers: Synthesis, Structure and Dielectric Properties. 2019 , 4, 4756-4766	3
297	Nanoporous Materials for Gas Storage. 2019 ,	9
296	Carbon capture and conversion using metal-organic frameworks and MOF-based materials. 2019 , 48, 2783-2828	910
295	N, S-doped nanocarbon derived from ZIF-8 as a highly efficient and durable electro-catalyst for oxygen reduction reaction. 2019 , 274, 237-242	22
294	A novel electroactive PPy/HKUST-1 composite film-coated electrode for the selective recovery of lithium ions with low concentrations in aqueous solutions. 2019 , 306, 35-44	30
293	Multi- and instabilities in gas partitioning between nanoporous materials and rubber balloons. 2019 , 475, 20180703	4
292	IRMOF-3 Biological Activity Enhancement by Post-Synthetic Modification. 2019 , 2019, 1243-1249	31
291	Synthesis and Defect Characterization of Phase-Pure Zr-MOFs Based on Meso-tetracarboxyphenylporphyrin. 2019 , 58, 5145-5153	40
290	Metal-organic framework composites and their electrochemical applications. 2019 , 7, 7301-7327	186
289	Superior activity and selectivity of multifunctional catalyst Pd-DTP@ZIF-8 in one pot synthesis of 3-phenyl propyl benzoate. 2019 , 490, 282-293	4
288	From thermoelectricity to phonoelectricity. 2019 , 6, 021305	9
287	Novel Synthesis of Cu-Schiff Base Complex@Metal-Organic Framework MIL-101 via a Mild Method: A Comparative Study for Rapid Catalytic Effects. 2019 , 8, 333-338	7

286	A quantitative transmetalation with a metal organic framework compound in a solid-liquid interface reaction: synthesis, structure, kinetics, spectroscopy and electrochemistry. 2019 , 21, 2438-2446	5
285	Fabrication of ZnO Nanorods with Strong UV Absorption and Different Hydrophobicity on Foamed Nickel under Different Hydrothermal Conditions. 2019 , 10,	32
284	Porosity Dependence of Compression and Lattice Rigidity in Metal-Organic Framework Series. 2019 , 141, 4365-4371	34
283	Metal organic framework based carbon porous as an efficient dispersive solid phase extraction adsorbent for analysis of methamphetamine from urine matrix. 2019 , 1109, 149-154	16
282	Influence of Zn and Co co-doping on oxygen evolution reaction electrocatalysis at MOF-derived N-doped carbon electrodes. 2019 , 6, 3475-3481	12
281	Light-controllable systems based on TiO-ZIF-8 composites for targeted drug release: communicating with tumour cells. 2019 , 7, 6810-6821	7
280	Synthesis and Evaluation of Acid-base Bi-functional MOFs Catalyst Supported on PVDF Membrane for Glucose Dehydration to 5-HMF. 2019 , 4, 13182-13190	6
279	Editorial: Functional Metal-Organic Frameworks: Gas Sorption, Separation, and Heterogeneous Catalysis. 2019 , 6,	
278	Investigation into the Effective Chemical Structure of Metal-Containing Ionic Liquids for Oxygen Absorption. 2019 , 58, 23304-23316	4
277	New Copper(II) Coordination Compounds Assembled from Multifunctional Pyridine-Carboxylate Blocks: Synthesis, Structures, and Catalytic Activity in Cycloalkane Oxidation. 2018 , 24,	13
276	Functional Coordination Polymers from a Bifunctional Ligand: A Quantitative Transmetalation via Single Crystal to Single Crystal Transformation. 2019 , 19, 1155-1166	11
275	Antibodies@MOFs: An In Vitro Protective Coating for Preparation and Storage of Biopharmaceuticals. 2019 , 31, e1805148	93
274	High-Pressure Evaporation-Based Nanoporous Black Sn for Enhanced Performance of Lithium-Ion Battery Anodes. 2019 , 36, 1800331	3
273	Green Synthesis of Self Assembled Nanospherical Dysprosium MOFs: Selective and Efficient Detection of Picric Acid in Aqueous and Gas Phase. 2019 , 7, 819-830	28
272	Evaluating Charge Equilibration Methods To Generate Electrostatic Fields in Nanoporous Materials. 2019 , 15, 382-401	33
271	Opportunities of Covalent Organic Frameworks for Advanced Applications. 2019 , 6, 1801410	244
270	Zeolitic imidazolate framework ZIF-8 films by ZnO to ZIF-8 conversion and their usage as seed layers for propylene-selective ZIF-8 membranes. 2019 , 72, 374-379	21
269	Adsorptive removal of toluene from aqueous solution using metal-organic framework MIL-101(Cr): removal optimization by response surface methodology. 2019 , 16, 6217-6226	6

268	Partial and Complete Substitution of the 1,4-Benzenedicarboxylate Linker in UiO-66 with 1,4-Naphthalenedicarboxylate: Synthesis, Characterization, and H-Adsorption Properties. 2019 , 58, 1607-1620	27
267	A Review on the Synthesis and Characterization of Metal Organic Frameworks for Photocatalytic Water Purification. 2019 , 9, 52	138
266	Photoluminescent Tb ³⁺ -based metal-organic framework as a sensor for detection of methanol in ethanol fuel. 2019 , 37, 225-231	18
265	Fabrication of Metal Organic Framework Thin Films Using Programmed Layer-by-Layer Assembly Techniques. 2019 , 4, 1800413	20
264	Solvent free oxidation of ethylbenzene over Ce-BTC MOF. 2019 , 12, 1358-1364	21
263	Lanthanide Organic framework based on a 4,4-(9,9-dimethyl-9H-fluorene-2,7-diyl) dibenzoic acid: Synthesis, structure and fluorescent sensing for a variety of cations and anions simultaneously. 2020 , 172, 107862	27
262	Designing a sensitive luminescent probe for organophosphorus insecticides detection based on post-synthetic modification of IRMOF-3. 2020 , 1199, 127000	9
261	Green Synthesis and Engineering Applications of Metal Organic Frameworks. 2020 , 139-162	2
260	Multifunctional Ln-MOF luminescent probe displaying superior capabilities for highly selective sensing of Fe ³⁺ and Al ³⁺ ions and nitrotoluene. 2020 , 585, 124094	32
259	Eco-friendly method for synthesis of zeolitic imidazolate framework 8 decorated graphene oxide for antibacterial activity enhancement. 2020 , 49, 24-32	14
258	Amine Functionalized Metal-Organic Framework Coordinated with Transition Metal Ions: d-d Transition Enhanced Optical Absorption and Role of Transition Metal Sites on Solar Light Driven H ₂ Production. 2020 , 16, e1902990	27
257	Co(BO ₂) ₂ supported on MIL-101 as high-performance anode material for Li-ion battery. 2020 , 241, 122362	2
256	Recent Progress in the Removal of Heavy Metal Ions from Water Using Metal-Organic Frameworks. 2020 , 5, 124-146	38
255	The effect of atomic point charges on adsorption isotherms of CO ₂ and water in metal organic frameworks. 2020 , 26, 663-685	18
254	Building coordination polymers using dipyrindone ligands. 2020 , 22, 441-447	3
253	Novel route to size-controlled synthesis of MnFeO@MOF core-shell nanoparticles. 2020 , 283, 121127-121127	3
252	Sustainable Green Route to Synthesize Functional Nano-MOFs as Selective Sensing Probes for CrVI Oxoanions and as Specific Sequestering Agents for Cr ₂ O ₇ ²⁻ 2020 , 8, 1195-1206	18
251	Proceedings of the International Petroleum and Petrochemical Technology Conference 2019. 2020 ,	

250	Selective catalytic reduction of NO by cerium-based metal-organic frameworks. 2020 , 10, 337-341	17
249	Synthesis and characterization of Cu-BTC metal-organic frameworks onto lignocellulosic fibers by layer-by-layer method in aqueous solution. 2020 , 27, 1733-1744	9
248	Highly Ordered Hierarchically Macroporous MIL-125 with High Specific Surface Area for Photocatalytic CO ₂ Fixation. 2020 , 8, 148-153	21
247	Recent updates on the adsorption capacities of adsorbent-adsorbate pairs for heat transformation applications. 2020 , 119, 109630	43
246	Metal-Organic Frameworks Based Porous Carbons for Oxygen Reduction Reaction Electrocatalysts for Fuel Cell Applications. 2020 , 251-284	2
245	Structure-thermal activity relationship in a novel polymer/MOF-based neutron-shielding material. 2020 , 41, 1418-1427	4
244	Product Control in Conversion of Ethanol on MIL-101(Cr) with Adjustable Brønsted Acid Density. 2020 , 12, 6234-6240	1
243	Copper Based Organic Framework Modified Electrode for Selective and Sensitive Detection of Ciprofloxacin. 2020 , 32, 2442-2451	6
242	Synthesis and crystal structures of zinc(II) coordination polymers of trimethylenedipyridine (tmdp), 4-nitrobenzoic (Hnba) and 4-biphenylcarboxylic acid (Hbiphen) for adsorptive removal of methyl orange from aqueous solution. 2020 , 192, 114819	3
241	Ingenious fabrication of metal-organic framework/graphene oxide composites as aptasensors with superior electrochemical recognition capability. 2020 , 8, 15823-15829	15
240	Integrated nano-architected photocatalysts for photochemical CO reduction. 2020 , 12, 23301-23332	30
239	A new two-fold interpenetrated Cd(II)-based metal-organic framework as a fluorescent probe for nitro-aromatic compounds. 2020 , 73, 2728-2739	12
238	Cd-Based Metal-Organic Framework Containing Uncoordinated Carbonyl Groups as Lanthanide Postsynthetic Modification Sites and Chemical Sensing of Diphenyl Phosphate as a Flame-Retardant Biomarker. 2020 , 59, 15088-15100	21
237	pH stable cationic luminescence Metal-organic framework material with nitrate guests as high selective sensor for detecting 2, 4, 6-trinitrophenol. 2020 , 290, 121583	2
236	Cost-effective composite methods for large-scale solid-state calculations. 2020 , 224, 292-308	3
235	Energetic decomposition yields efficient bimetallic Cu MOF-derived catalysts. 2020 , 8, 15066-15073	5
234	Metal-organic frameworks for water purification. 2020 , 241-283	1
233	Sonochemical synthesis of Zr-fumaric based metal-organic framework (MOF) and its performance evaluation in methyl violet 2B decolorization by photocatalysis. 2020 , 131, 1009-1021	9

232	The Role of Binary Mixtures of Ionic Liquids in ZIF-8 for Selective Gas Storage and Separation: A Perspective from Computational Approaches. 2020 , 124, 26203-26213			5
231	Efficient Calculation of Small Molecule Binding in Metal-Organic Frameworks and Porous Organic Cages. 2020 , 124, 27529-27541			13
230	Shelter for Biologically Relevant Molecules: Photoprotection and Enhanced Thermal Stability of Folic Acid Loaded in a ZIF-8 MOF Porous Host. 2020 , 59, 22155-22162			0
229	A review on the field patents and recent developments over the application of metal organic frameworks (MOFs) in supercapacitors. 2020 , 422, 213441			56
228	Luminescent CdII metal-organic frameworks based on isoniazid using a mixed ligand approach. 2020 , 22, 5980-5986			2
227	The role of photoinduced charge transfer for photocatalysis, photoelectrocatalysis and luminescence sensing in metal-organic frameworks. 2020 , 49, 12892-12917			9
226	Synthesis of Ag-doped ZIF-8 photocatalyst with excellent performance for dye degradation and antibacterial activity. 2020 , 604, 125330			21
225	Photoswitchable Cu(II)/Cu(I) catalyses assisted by enzyme-like non-covalent interactions in Cu(II)-ethelamine coordination polymers for installing CO ₂ /CS ₂ and CF ₃ groups in heterocycles. <i>New Journal of Chemistry</i> , 2020 , 44, 15131-15139	3.6	1	
224	Guest-Based Photoactive Porous Materials Based upon Zn-Carboxylate Metal Organic Frameworks. 2020 , 155-184			
223	A colorimetric immunoassay for determination of Escherichia coli O157:H7 based on oxidase-like activity of cobalt-based zeolitic imidazolate framework. 2020 , 187, 506			3
222	Breakthrough Screening of Porous Materials: A Simple and Effective Tool for Database Generation. 2020 ,			
221	High Throughput Methods in the Synthesis, Characterization, and Optimization of Porous Materials. 2020 , 32, e2002780			18
220	Metal Foam Electrode as a Cathode for Copper Electrowinning. 2020 , 10, 822			4
219	Transferable and Extensible Machine Learning-Derived Atomic Charges for Modeling Hybrid Nanoporous Materials. 2020 , 32, 7822-7831			11
218	Adsorption under nanoconfinement: a theoretical-computational study revealing significant enhancement beyond the Langmuirian levels. 2020 , 22, 19600-19605			3
217	One-Pot Synthesis of Two-Linker Mixed Al-Based Metal-Organic Frameworks for Modulated Water Vapor Adsorption. 2020 , 20, 6565-6572			3
216	Nonlinear Optical Features of Zeolitic Imidazolate Framework-67 Nanocrystals for Mid-Infrared Pulse Generation. 2020 , 20, 6683-6690			8
215	Temperature dependence of adsorption hysteresis in flexible metal organic frameworks. 2020 , 3,			8

214	New microsphere cobalt complex: preparation and catalytic consideration for the synthesis of some heterocyclic compounds. 2020 , 5, 15130-15136		0
213	Methane Combustion with a PdPt Catalyst Stabilized by Magnesia/Alumina Spinel in a High-Humidity Feed. 2020 , 59, 11170-11176		3
212	Electrochemical Evolution of Pore-Confined Metallic Molybdenum in a MetalOrganic Framework (MOF) for All-MOF-Based Pseudocapacitors. 2020 , 3, 6258-6267		16
211	Synthesis, structural investigation and NLO properties of three 1,2,4-triazole Schiff bases. 2020 , 1219, 128492		7
210	Self-adjusting binding pockets enhance H and CH adsorption in a uranium-based metal-organic framework. 2020 , 11, 6709-6716		14
209	An Eu(III)-functionalized Sr-based metal-organic framework for fluorometric determination of Cr(III) and Cr(VI) ions. 2020 , 187, 374		12
208	Metal-Organic Framework Based on an Anthracene Tetracarboxylate Ligand and Cadmium or Cobalt: Synthesis, Structure Analysis, Stability and Magnetic Properties. 2020 , 5, 6537-6540		1
207	Enhancing the Fenton-like Catalytic Activity of nFeO by MIL-53(Cu) Support: A Mechanistic Investigation. 2020 , 54, 5258-5267		44
206	A Cu-BTC metalOrganic framework (MOF) as an efficient heterogeneous catalyst for the aerobic oxidative synthesis of imines from primary amines under solvent free conditions. <i>New Journal of Chemistry</i> , 2020 , 44, 5972-5979	3.6	19
205	First-Principles Study on Methane (CH ₄) Storage Properties of Graphdiyne. 2020 , 124, 8110-8118		8
204	Two-Dimensional Ultrathin Multilayers ZIF-8 Nanosheets with Sustained Antibacterial Efficacy for <i>Aeromonas Hydrophila</i> . <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 3862-3868	3.2	4
203	Trinuclear Mn/Zn based microporous coordination polymers as efficient catalysts for ipso-hydroxylation of boronic acids. 2020 , 49, 5454-5462		2
202	Exploring the Effect of Morphologies of Fe(III) Metal-Organic Framework MIL-88A(Fe) on the Photocatalytic Degradation of Rhodamine B. 2020 , 5, 7534-7542		13
201	Two isostructural Ln ³⁺ -based heterometallic MOFs for the detection of nitro-aromatics and Cr ^{2O7} ²⁻ <i>New Journal of Chemistry</i> , 2020 , 44, 12748-12754	3.6	6
200	Extension of BET theory to CO ₂ adsorption isotherms for ultra-microporosity of covalent organic polymers. 2020 , 2, 1		10
199	Primary Adsorption Sites of Light Alkanes in Multivariate UiO-66 at Room Temperature as Revealed by Solid-State NMR. 2020 , 124, 3738-3746		8
198	Construction of a functionalized hierarchical pore metal-organic framework via a palladium-reduction induced strategy. 2020 , 12, 6250-6255		6
197	The Chemistry of Reticular Framework Nanoparticles: MOF, ZIF, and COF Materials. 2020 , 30, 1909062		79

196	Influence of oxophilic behavior of UiO-66(Ce) metal-organic framework with superior catalytic performance in Friedel-Crafts alkylation reaction. 2020 , 34, e5578	8
195	Synthon Robustness and Structural Modularity of Copper(II) Two-Dimensional Coordination Polymers with Isomeric Amino Acids and 4,4'-Bipyridine. 2020 , 20, 2415-2423	5
194	An Electroactive Zinc-based Metal-Organic Framework: Bifunctional Fluorescent Quenching Behavior and Direct Observation of Nitrobenzene. 2020 , 59, 2997-3003	13
193	Killing Oral Bacteria Using Metal-Organic Frameworks. 2020 , 59, 1559-1567	14
192	Zinc-coordination Polymers Based on a Donor-acceptor Mix-ligand System: Syntheses, Crystal Structures and Photophysical Properties. 2020 , 36, 74-80	5
191	Zirconium-Based Metal-Organic Frameworks for the Catalytic Hydrolysis of Organophosphorus Nerve Agents. 2020 , 12, 14702-14720	90
190	Metal-organic frameworks for the chemical fixation of CO ₂ into cyclic carbonates. 2020 , 408, 213173	139
189	Applications of metal-organic framework-derived materials in fuel cells and metal-air batteries. 2020 , 409, 213214	97
188	Smart ZIF-L mesh films with switchable superwettability synthesized via a rapid energy-saving process. 2020 , 240, 116647	13
187	Cobalt-Iron mixed-metal-organic framework (Co ₃ Fe-MMOF) as peroxidase mimic for highly sensitive enzyme-linked immunosorbent assay (ELISA) detection of <i>Aeromonas hydrophila</i> . 2020 , 154, 104591	7
186	Electrodeposition of pore-confined cobalt in metal-organic framework thin films toward electrochemical H ₂ O ₂ detection. 2020 , 347, 136276	20
185	Electrochemical synthesis of MOFs. 2020 , 177-195	1
184	Metal-organic frameworks and exemplified cytotoxicity evaluation. 2020 , 347-381	0
183	Designing Porous Materials to Resist Compression: Mechanical Reinforcement of a Zr-MOF with Structural Linkers. 2020 , 32, 3545-3552	16
182	Controlling the morphology of metal-organic frameworks and porous carbon materials: metal oxides as primary architecture-directing agents. 2020 , 49, 3348-3422	104
181	Two Co-based MOFs assembled from an amine-functionalized pyridinecarboxylate ligand: inorganic acid-directed structural variety and gas adsorption properties. 2020 , 22, 3424-3431	10
180	Water-based Synthesis and Properties of a Scandium 1,4-Naphthalenedicarboxylate. 2020 , 646, 1373-1379	3
179	Impact of dehydration and mechanical amorphization on the magnetic properties of Ni(II)-MOF-74. 2020 , 8, 7132-7142	9

178	Metal-Organic Framework-Based Engineered Materials-Fundamentals and Applications. 2020 , 25,	32
177	Zeolitic imidazolate framework-8 (ZIF-8) for drug delivery: A critical review. 2021 , 15, 221-237	22
176	Porous Metal-Organic Frameworks for Advanced Applications. 2021 , 590-616	1
175	Modulation of MIL-101(Cr) morphology and selective removal of dye from water. 2021 , 18, 159-166	1
174	3D electron diffraction as an important technique for structure elucidation of metal-organic frameworks and covalent organic frameworks. 2021 , 427, 213583	28
173	Selective capture of carbon dioxide from humid gases over a wide temperature range using a robust metal-organic framework. 2021 , 405, 126937	5
172	Effective adsorption of mercury by Zr(IV)-based metal-organic frameworks of UiO-66-NH from aqueous solution. 2021 , 28, 7068-7075	8
171	An overview of conventional and non-conventional hydrogen production methods. 2021 , 46, 5353-5359	9
170	The state of the field: from inception to commercialization of metal-organic frameworks. 2021 , 225, 9-69	22
169	Application of MIL-100(Fe) in drug delivery and biomedicine. 2021 , 61, 102217	9
168	Low-cost inkjet printing of metal-organic frameworks patterns on different substrates and their applications in ammonia sensing. 2021 , 329, 129157	9
167	Selective separation of hibiscus acid from Roselle extracts by an amino-functionalized Metal Organic Framework. 2021 , 1636, 461789	2
166	Metal-organic frameworks as diverse chemical applications. 2021 , 349-364	
165	Role of ultramicropores in the remarkable gas storage in hypercrosslinked polystyrene networks studied by positron annihilation. 2021 , 23, 13603-13611	0
164	pH response of a hydroxyl-functionalized luminescent metal-organic framework based phosphor. <i>New Journal of Chemistry</i> , 2021 , 45, 9394-9402	3.6 1
163	Rod-like L-Aspartic acid-Cu(II) metal organic frameworks; Synthesis, characterization and biomedical properties. 2021 , 4, 100110	3
162	Ammonia: a clean and efficient energy carrier for distributed hybrid system. 2021 , 141-177	
161	A template-directed synthesis of metal-organic framework (MOF-74) ultrathin nanosheets for oxygen reduction electrocatalysis.. 2021 , 11, 9353-9360	3

160	Metal-Organic Frameworks for Catalytic Applications. 2021 , 228-259	0
159	MOF-based electrocatalysts for high-efficiency CO ₂ conversion: structure, performance, and perspectives.	3
158	Slight ligand modifications within multitopic linear hydroxamates promotes connectivity differences in Cu(II) 1-D coordination polymers. 2021 , 23, 5531-5539	1
157	Spiers Memorial Lecture: Coordination networks that switch between nonporous and porous structures: an emerging class of soft porous crystals. 2021 , 231, 9-50	2
156	Wettability control of metal-organic frameworks. 2021 , 131-166	0
155	Advances in the Applications of Graphene-Based Nanocomposites in Clean Energy Materials. 2021 , 11, 47	8
154	Rational strategies for proton-conductive metal-organic frameworks. 2021 , 50, 6349-6368	50
153	Recent advances on thermal energy storage using metal-organic frameworks (MOFs). 2021 , 34, 102179	16
152	Processes to enhance the sensitivity of sensor for 2-n-octyl-4-isothiazolin-3-one as biocide. 2021 , 67, e17224	
151	Effect of Metal-Organic Framework (MOF) Database Selection on the Assessment of Gas Storage and Separation Potentials of MOFs. 2021 , 60, 7828-7837	42
150	Effect of Metal-Organic Framework (MOF) Database Selection on the Assessment of Gas Storage and Separation Potentials of MOFs. 2021 , 133, 7907-7916	11
149	Solvent- and Temperature-Driven Photoluminescence Modulation in Porous Hofmann-Type Sr-Re Metal-Organic Frameworks. 2021 , 60, 4093-4107	1
148	Engineering the electronic and optical properties of 2D porphyrin-paddlewheel metal-organic frameworks. 2021 , 3, 034005	3
147	Reversible Protonation of Porphyrinic Metal-Organic Frameworks Embedded in Nanoporous Polydimethylsiloxane for Colorimetric Sensing. 2021 , 8, 2001759	4
146	Metal Organic Framework Functionalized Textiles as Protective Clothing for the Detection and Detoxification of Chemical Warfare Agents: A Review. 2021 , 60, 4218-4239	14
145	NO ₂ -functionalized metal-organic framework incorporating bimetallic alloy nanoparticles as a sensor for efficient electrochemical detection of dopamine. 2021 , 125, 107012	15
144	Immobilisation of L-proline onto mixed-linker zirconium MOFs for heterogeneous catalysis of the aldol reaction. 2021 , 161, 108315	5
143	Physical properties of porphyrin-based crystalline metal-organic frameworks. 2021 , 4,	15

142	Facile solvothermal syntheses of isostructural lanthanide(III) formates: Photocatalytic, photoluminescent chemosensing properties, and proficient precursors for metal oxide nanoparticles. 2021 , 74, 1700-1719	1
141	A review on recent advances in hydrogen energy, fuel cell, biofuel and fuel refining via ultrasound process intensification. 2021 , 73, 105536	19
140	Extensive Screening of Solvent-Linked Porous Polymers through Friedel-Crafts Reaction for Gas Adsorption. 2021 , 2, 2100064	4
139	Multi-dimensional copper(I) and silver (I) coordination polymers assembled with a pyridyl bis-urea macrocyclic ligand. 2021 , 201, 115170	
138	Hydrogen and deuterium separation on metal organic frameworks based on Cu- and Zn-BTC: an experimental and theoretical study. 2021 , 27, 925-935	5
137	Removal of fluoride from industrial wastewater by using different adsorbents: A review. 2021 , 773, 145535	48
136	Tetracyanoquinodimethane doped copper-organic framework electrode with excellent electrochemical performance for energy storage applications. 2021 , 380, 138229	4
135	Stabilization of an enzyme cytochrome in a metal-organic framework against denaturing organic solvents. 2021 , 24, 102641	3
134	Supramolecular Assemblies Showing Thermally Activated Delayed Fluorescence. 2100022	2
133	Electrochemical sensor based on nitrogen-enriched metal-organic framework for selective and sensitive detection of hydrazine and hydrogen peroxide. 2021 , 9, 105182	11
132	A novel paramagnetic coordination polymer, fabricated from Co(NCS) ₂ and 2-pyridinecarbaldehyde isonicotinoylhydrazone. 2021 , 522, 120335	0
131	Microporosity Enhancement in a One-Dimensional Imidazolium Caged Metal-Organic Framework by Highly Selective Postsynthetic Removal of Inner Yttrium Clusters. 2021 , 42, 1020-1023	1
130	Solid-phase extraction of non-steroidal anti-inflammatory drugs in human plasma and water samples using sol-gel-based metal-organic framework coating. 2021 , 1648, 462168	9
129	Transport Diffusion of Linear Alkanes (C-C) through Thin Films of ZIF-8 as Assessed by Quartz Crystal Microgravimetry. 2021 , 37, 9405-9414	2
128	First-Principles Study on Methane Adsorption Performance of Ti-Modified Porous Graphene. 2100168	2
127	Hierarchical mesoporous hollow Ce-MOF nanosphere as oxidase mimic for highly sensitive colorimetric detection of ascorbic acid. 2021 , 777, 138749	7
126	SO Capture by Two Aluminum-Based MOFs: Rigid-like MIL-53(Al)-TDC Breathing MIL-53(Al)-BDC. 2021 , 13, 39363-39370	11
125	Hydrogen Economy and Role of Hythane as a Bridging Solution: A Perspective Review.	7

124	Lanthanide-Based Metal-Organic-Frameworks for Proton Conduction and Magnetic Properties.	3
123	Oriented films of metal-organic frameworks on metal hydroxides via heteroepitaxial growth.	2
122	Versatility vs stability. Are the assets of metal-organic frameworks deployable in aqueous acidic and basic media?. 2021 , 443, 214020	7
121	Tunable Fluorescein-Encapsulated Zeolitic Imidazolate Framework-8 Nanoparticles for Solid-State Lighting.	7
120	A review of technologies and applications on versatile energy storage systems. 2021 , 148, 111263	46
119	Trade-off between Fenton-like activity and structural stability of MILs(Fe). 2021 , 420, 129583	5
118	Photocatalytic degradation of hazardous organic pollutants in water by Fe-MOFs and their composites: A review. 2021 , 9, 105967	6
117	Metal-Organic Frameworks (MOFs) as methane adsorbents: From storage to diluted coal mining streams concentration. 2021 , 790, 148211	7
116	Sono-synthesis of basic metal-organic framework for reusable catalysis of organic reactions in the eco-friendly conditions. 2021 , 303, 122525	3
115	Cyclic carbonates synthesis from epoxides and CO ₂ over NiIC-10 metal-organic frameworks. 2021 , 53, 101718	2
114	Post-synthetic modification of luminescent metal-organic frameworks using schiff base complexes for biological and chemical sensing. 2021 , 449, 214214	13
113	A metal-doped flexible porous carbon cloth for enhanced CO ₂ /CH ₄ separation. 2021 , 277, 119511	7
112	MOF-based membranes for pervaporation. 2022 , 278, 119233	7
111	A Review on Metal-Organic Frameworks: Synthesis and Applications. 2021 , 33, 245-252	1
110	A unique photoswitch: intrinsic photothermal heating induced reversible proton conductivity of a HKUST-1 membrane. 2021 , 50, 2731-2735	4
109	Resolving the organization of CO ₂ molecules confined in silica nanopores using in situ small-angle neutron scattering and molecular dynamics simulations. 2021 , 8, 2006-2018	2
108	Zr-Porphyrin Metal-Organic Framework-Based Photocatalytic Self-Cleaning Membranes for Efficient Dye Removal. 2021 , 60, 1850-1858	13
107	Surface Area and Porosity of Co ₃ (ndc) ₃ (dabco) Metal-Organic Framework and Its Methane Storage Capacity: A Combined Experimental and Simulation Study. 2021 , 125, 2411-2423	1

106	Hydrogen Storage in Metal-Organic Frameworks. 2017 , 143-170	9
105	Role of porosity and polarity of nanoporous carbon spheres in adsorption applications. 2017 , 7, 47251-47260	8
104	Investigation of structural, electronic and magnetic properties of breathing metal-organic framework MIL-47(Mn): a first principles approach.. 2020 , 10, 4786-4794	6
103	A Mixed-Valent Metal-Organic Ladder Linked by Pyrazine. 2020 ,	1
102	Optical modulation characteristics of zeolitic imidazolate framework-67 (ZIF-67) in the near infrared regime. 2019 , 44, 5892-5895	15
101	Crystal structure of poly[aqua-(μ -benzene-1,2,4,5-tetracarboxylato- μ O,O',O'',O''')bis(μ -1-(4-(1H-imidazol-1-yl)benzyl)-1H-1,2,4-triazole- μ N,N')]NiC17H14N5O5. 2020 , 235, 817-819	
100	Modified Dual-Site Langmuir Adsorption Equilibrium Models from A GCMC Molecular Simulation. 2020 , 10, 1311	3
99	Modelling of porous metal-organic framework (MOF) materials used in catalysis. 2020 , 1-24	1
98	Adsorption of Carbon Dioxide onto Tetraethylenepentamine Impregnated PMMA Sorbents with Different Pore Structure. 2015 , 53, 382-390	3
97	Bayesian optimization of nanoporous materials.	6
96	Exploring and expanding the Fe-terephthalate metal-organic framework phase space by coordination and oxidation modulation. 2021 , 8, 3377-3386	4
95	Theranostic applications of metal-organic frameworks (MOFs)-based materials in brain disorders: Recent advances and challenges. 2021 , 134, 108997	8
94	Metal-organic frameworks for the generation of reactive oxygen species. <i>Chemical Physics Reviews</i> , 2021 , 2, 041301	4.4 0
93	Energy Gas Storage in Porous Polymers. 215-248	
92	Study on Materials and Process Systems for CO2 separation from Combustion of Fossil Fuels. 2014 , 31, 375-386	
91	Methane/Hydrogen Mixtures from Concentrated Solar Energy: The METISOL Project. 2016 , 37-51	
90	Interaction-Induced Polarizability Anisotropy Correlations in Ultra-Thin Layer of Neon Atoms Confined Between Graphene Walls: Computer Simulation. 2018 , 311-316	
89	Application of Metal-Organic Frameworks for Purification of Colored Waste Water of Food Industry. 2019 , 23, 15-19	1

88	Sealing Capability Evaluation and Study of Operation Optimization of One Natural Gas Storage in North China. 2020 , 343-350	1
87	The crystal structure of catena-poly[(μ -4-(benzo[d]imidazol-2-yl)benzenecarboxylato- μ N,O)-(μ -4-(benzo[d]imidazol-2-yl)benzenecarboxylato- μ N,O)] \cdot 2H ₂ O. 2020 , 235, 1033-1035	0
86	Fabrication of high loading V ₂ O ₅ /TiO ₂ catalysts derived from metal-organic framework with excellent activity for chlorobenzene decomposition. 2022 , 572, 151511	3
85	The crystal structure of catena-poly[diacqua-(μ -5-(benzo[d]thiazol-2-yl)benzene-1,3-dicarboxylate- μ O,O':O'',O''')-(μ -5-(benzo[d]thiazol-2-yl)benzene-1,3-dicarboxylate- μ O,O':O'',O''')] \cdot 2H ₂ O. 2020 , 235, 367-369	0
84	Crystal structure of catena-poly[(μ -3-(benzo[d]thiazol-2-yl)-5-carboxybenzoato- μ N:O)silver(I)], C ₁₅ H ₈ AgNO ₄ S. 2020 , 235, 509-510	0
83	Preparation and Characterization of a Hybrid Complex of Cyclodextrin-Based Metal-Organic Frameworks-1 and Ascorbic Acid Derivatives. 2021 , 14,	1
82	Inclusion Complexes of Daidzein with Cyclodextrin-Based Metal-Organic Framework-1 Enhance Its Solubility and Antioxidant Capacity. 2021 , 23, 2	2
81	First-principles study on methane storage properties of porous graphene modified with Mn. 2021 , 127, 1	0
80	MOFs in the time domain.	6
79	Metal Organic Frameworks to Remove Arsenic Adsorption from Wastewater. 2022 , 1-35	0
78	3D printing of metal-organic framework composite materials for clean energy and environmental applications. 2021 , 9, 27252-27270	4
77	Interaction of TFSI-Imidazole and TFSI-Pyridinium ILs with MOFs from Molecular Docking Simulation. 2021 , 185-194	0
76	Thermal, mechanical investigation and neutron shielding analysis for Gd-MOF/polyimide materials.. 2021 , 11, 40148-40158	1
75	Eu-MOF fluorescent fiber detector based on polyacrylonitrile: A highly selective and sensitive luminescence sensor for trace amounts of Fe ³⁺ . 2022 , 198, 110016	4
74	Synthesis and applications of metal-organic frameworks and graphene-based composites: A review. 2022 , 214, 115645	3
73	Loofah-derived eco-friendly SiC ceramics for high-performance sunlight capture, thermal transport, and energy storage. 2022 , 45, 786-795	4
72	Preparation and characterization of three-dimensional hierarchical porous carbon from low-rank coal by hydrothermal carbonization for efficient iodine removal.. 2022 , 12, 3062-3072	1
71	Metal-organic frameworks (MOFs) based nanofiber architectures for the removal of heavy metal ions.. 2022 , 12, 1433-1450	12

70	Patterned microfluidic devices for rapid screening of metal-organic frameworks yield insights into polymorphism and non-monotonic growth.. 2022,	0
69	State of the art developments and prospects of metal-organic frameworks for energy applications.. 2021,	4
68	Significance of an Environmental Gas Cell to Obtain a Fully Dehydrated Form and CO-Pressurized Structure of a Metal-Organic Framework Using In Situ Single-Crystal X-ray Diffraction at 298 K.. 2022,	1
67	Utilizing electrostatic effect in fibrous filters for efficient airborne particles removal: Principles, fabrication, and material properties. 2022, 26, 101369	4
66	First-principles study of the impact of hydrogen on the adsorption properties of Ti-decorated graphdiyne storage methane. 2022, 790, 139329	0
65	Enhanced fluorescence and ion adsorption/sensing properties of europium(III) complex with porous structure. 2022, 122985	0
64	Metal-organic frameworks properties from hybrid density functional approximations.. 2022, 156, 094706	2
63	Cu-MOF derived CuO nanoparticle decorated amorphous carbon as an electrochemical platform for the sensing of caffeine in real samples. 2022, 133, 104248	1
62	Saturable absorption property and laser modulation performance of zeolitic imidazolate framework-67 (ZIF-67) at 2.85 μm . 2022, 150, 107901	1
61	Adsorption and Hydration Coupling on a Novel Material of MIL-101(Cr)/Graphene Oxide Composites with High Capacities Methane. 2022, 371-376	
60	Metal-Organic Frameworks: Promising Materials for Methane Storage. 2022, 517-549	
59	Understanding the Performance of Metal-Organic Frameworks for Modulation of Nitric oxide Release from S-nitrosothiols.. 2022,	
58	Microscopic Insights into Cation-Coupled Electron Hopping Transport in a Metal-Organic Framework.. 2022,	2
57	Colossal Linear NTE and PTE in Two-Fold Interpenetrated Network of a MOF Induced by Hinge-like Motion.	2
56	Triggered and controlled release of active gaseous/volatile compounds for active packaging applications of agri-food products: A review.. 2021,	2
55	A Luminescent Guest@MOF Nanoconfined Composite System for Solid-State Lighting.. 2021, 26,	1
54	A Conceptual DFT Approach Toward Analyzing Hydrogen Storage Potential. 2022, 533-553	0
53	Electrochemical performance of metal-organic framework MOF(Ni) doped graphene. <i>International Journal of Hydrogen Energy</i> , 2022,	6.7 1

52	A review on thermal performance enhancement of green cooling system using different adsorbent/refrigerant pairs. 2022 , 14, 100225		1
51	Multicriteria decision making in organic-metal frameworks for fuel storage. 2022 , 609-630		
50	Evaluating the High-Pressure Volumetric CH ₄ , H ₂ , and CO ₂ Storage Properties of Denser-Version Isostructural soc-MetalOrganic Frameworks.		2
49	Recent Advances in the Green Synthesis of Lanthanide-Based Organic Compounds For Broad Application Spectrum in Different Sectors: A Review.		
48	Self-sacrifice MOFs for heterogeneous catalysis: Synthesis mechanisms and future perspectives. <i>Materials Today</i> , 2022 ,	21.8	6
47	Copper-doped activated carbon from amorphous cellulose for hydrogen, methane and carbon dioxide storage. <i>International Journal of Hydrogen Energy</i> , 2022 ,	6.7	1
46	Efficient capture of radioactive iodine by ZIF-8 derived porous carbon. <i>Journal of Environmental Radioactivity</i> , 2022 , 249, 106895	2.4	0
45	Impact of N-donor auxiliary ligands on two new Co(II)-based MOFs with N-heterocyclic ligands and magnetism study. <i>New Journal of Chemistry</i> ,	3.6	2
44	Methane storage in flexible and dynamical metalOrganic frameworks. <i>Chemical Physics Reviews</i> , 2022 , 3, 021308	4.4	1
43	A Coordination Network Featuring Two Distinct Copper(II) Coordination Environments for Highly Selective Acetylene Adsorption. <i>Chemistry - A European Journal</i> ,	4.8	0
42	Copper-based non-precious metal catalysts derived from the in-situ and ex-situ loading of copper-bipyridine metal-organic framework on activated carbon for oxygen reduction reaction. <i>Journal of Chemical Sciences</i> , 2022 , 134,	1.8	0
41	Anisotropic Band-Edge Absorption of Millimeter-Sized Zn(3-ptz) ₂ Single-Crystal MetalOrganic Frameworks. <i>ACS Omega</i> , 2022 , 7, 24432-24437	3.9	
40	Single-crystal structure determination of nanosized metalOrganic frameworks by three-dimensional electron diffraction. <i>Nature Protocols</i> ,	18.8	1
39	Ce-MOF Nanosphere as Colorimetric Sensor with High Oxidase Mimicking Activity for Sensitive Detection of H ₂ O ₂ . <i>Journal of Inorganic and Organometallic Polymers and Materials</i> ,	3.2	0
38	Analysis of CH ₄ Adsorption Isotherms onto MIL-101 (Cr) Metal-Organic Framework and Its Derivatives with Alkali Ion Dopants. <i>Protection of Metals and Physical Chemistry of Surfaces</i> ,	0.9	
37	Polymorphism from a 1:1 Ln (Iii):Btb Reaction Pot: Solvothermal Versus Sonochemical Synthesis of Ln-Mofs.		
36	Aerosol Jet Printing of the Ultramicroporous Calcium Squarate MetalOrganic Framework. 2022 , 34, 6809-6814		1
35	First-principles study on the design of metal-decorated N-doped Graphyne as a high capacity CH ₄ adsorbent. 2022 , 132, 065001		

- 34 Hofmann-type metal-organic frameworks with dual open nickel centers for efficient capture of CO₂ from CH₄ and N₂. **2022**, 315, 123532 0
- 33 Water inhibition and role of palladium adatoms on Pd/Al₂O₃ catalysts during methane oxidation. **2022**, 606, 154927 1
- 32 Insights into the heat contributions and mechanism of CO₂ adsorption on metal-organic framework MIL-100 (Cr, Fe): Experiments and molecular simulations. **2023**, 331, 125863 1
- 31 Nanostructured inorganic metal oxide/metal-organic framework-based electrodes for energy technologies. **2022**, 339-376 0
- 30 Luminescent MOFs (LMOFs): recent advancement towards a greener WLED technology. **2022**, 58, 10768-10788 0
- 29 Boosting Protein Encapsulation through Lewis-Acid-Mediated Metal-Organic Framework Mineralization: Toward Effective Intracellular Delivery. **2022**, 34, 7817-7827 1
- 28 Plasmonic Nanostructures-Decorated ZIF-8-Derived Nanoporous Carbon for Surface-Enhanced Raman Scattering. 0
- 27 Mapping short-range order at the nanoscale in metal-organic framework and inorganic glass composites. 0
- 26 Fabrication of bimetallic Cu-Zn adsorbents with high dispersion by using confined space for gas adsorptive separation. 0
- 25 High performance proton exchange membranes with double proton conduction pathways by introducing MOF impregnated with protic ionic liquid into SPEEK. **2022**, 346, 112314 1
- 24 Mesoporous boron nitride in contact with water - Chemical stability and adsorption properties. **2022**, 16, 100338 0
- 23 Use of the Advantages of Titanium in the Metal-Organic Framework. 0
- 22 Polymorphism from a 1:1 Ln:BTB Reaction Pot: Solvothermal versus Sonochemical Synthesis of Ln-MOFs. **2022**, 121299 0
- 21 Folic acid grafted aminated zeolitic imidazolate framework (ZIF-8) as pH responsive drug carrier for targeted delivery of curcumin. **2023**, 79, 104098 0
- 20 Metal-organic frameworks-based hydrogen storage strategies and applications. **2022**, 2403, 012022 0
- 19 From Blue to White: Sustainable Luminescent Metal Organic Framework for Hybrid Light-Emitting Diodes. 2202643 0
- 18 Significantly Enhanced Carbon Dioxide Selective Adsorption via Gradual Acylamide Truncation in MOFs: Experimental and Theoretical Research. **2022**, 61, 19944-19950 0
- 17 Review on Metal-Organic Framework Classification, Synthetic Approaches, and Influencing Factors: Applications in Energy, Drug Delivery, and Wastewater Treatment. **2022**, 7, 44507-44531 2

- 16 Hydrogen adsorption on methyl-functionalized IRMOF-1 and IRMOF-18 by molecular simulation. **2023**, 142, ○
- 15 Adsorptive removal of iodate oxyanions from water using a Zr-based metal-organic framework. ○
- 14 Stability and chaotic dynamic analysis of Li-doped fullerene-IRMOF composite materials for hydrogen storage. **2023**, ○
- 13 Applications of MOFs. **2023**, 197-305 ○
- 12 First-principles study on the CH₄ adsorption performance of Mn-modified N-doped graphdiyne. ○
- 11 The Sustainable Synthesis of Methanol [Renewable Energy, Carbon Dioxide and an Anthropogenic Carbon Cycle]. **2014**, 193-258 ○
- 10 Molecular Layer Deposition of Zeolitic Imidazolate Framework-8 Films. **2023**, 35, 1684-1690 ○
- 9 A novel detection method for neohesperidin dihydrochalcone (NHDC) based on ZIF-8/ErGO composite modified electrode in milk. ○
- 8 MOFs for desulfurization of fuel oil: Recent advances and future insights. ○
- 7 Direct synthesis of organic salt-derived porous carbons for enhanced CO₂ and methane storage. **2023**, 11, 6952-6965 ○
- 6 Boronation of Biomass-Derived Materials for Hydrogen Storage. **2023**, 3, 244-279 ○
- 5 Role of molecular modelling in the development of metal-organic framework for gas adsorption applications. **2023**, 135, ○
- 4 Ligand Modulation on the Various Structures of Three Zinc(II)-Based Coordination Polymers for Antibiotics Degradation. **2023**, 28, 2933 ○
- 3 Post-Synthetic Cyano-ferrate(II) Functionalization of a Metal-Organic Framework, NU-1000. **2023**, 39, 4936-4942 ○
- 2 Solubility and Polymorphism of a HOF Monomer N₁,N₃,N₅-Tris(pyridin-4-yl)benzene-1,3,5-tricarboxamide in 12 Neat Solvents at Temperatures from 283.15 to 323.15 K. ○
- 1 CO₂, CH₄, and H₂ Adsorption Performance of the Metal-Organic Framework HKUST-1 by Modified Synthesis Strategies. **2023**, 37, 7260-7267 ○