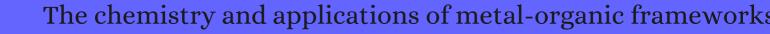
CITATION REPORT List of articles citing



DOI: 10.1126/science.1230444 Science, 2013, 341, 1230444.

Source: https://exaly.com/paper-pdf/55129486/citation-report.pdf

Version: 2024-04-09

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

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

#	Paper	IF	Citations
2199	Synthesis and Structural Characterization of a Series of Novel Zn(II)-based MOFs with Pyridine-2,5-dicarboxylate Linkers. 2013 , 13, 5305-5315		30
2198	Surface engineered porous silicon for stable, high performance electrochemical supercapacitors. 2013 , 3, 3020		126
2197	Construction of two 2-D lanthanide(III)-frameworks with triple-stranded double-helical character based on ligand 4-(benzimidazol-1-ylmethyl)benzoate. 2013 , 38, 65-69		4
2196	MetalâBrganic frameworks in fuel cell technologies. 2013 , 8, 577-597		122
2195	Metalâ©rganic Framework Thin Films Composed of Free-Standing Acicular Nanorods Exhibiting Reversible Electrochromism. 2013 , 25, 5012-5017		194
2194	Metal-organic frameworks of zeolitic imidazolate framework-7 and zeolitic imidazolate framework-60 for fast mercury and methylmercury speciation analysis. 2013 , 804, 240-5		57
2193	Programmed pore architectures in modular quaternary metal-organic frameworks. 2013 , 135, 17731-4		148
2192	ChemInform Abstract: The Chemistry and Applications of Metal-Organic Frameworks. 2013, 44, no-no		2
2191	Site-selective growth of surface-anchored metal-organic frameworks on self-assembled monolayer patterns prepared by AFM nanografting. 2013 , 4, 638-48		31
2190	Synthesis, characterization and DNA interaction studies of new triptycene derivatives. 2014 , 10, 1290-8		7
2189	Crystallography of metal-organic frameworks. 2014 , 1, 563-70		46
2188	Metal-Organic Frameworks: Polyrotaxane Frameworks. 2014 , 1-19		
2187	Chiral and achiral helical coordination polymers of zinc and cadmium from achiral 2,6-bis(imidazol-1-yl)pyridine: Solvent effect and spontaneous resolution. 2014 , 126, 1423-1431		19
2186	Perspective: Metal-organic frameworksâØpportunities and challenges. 2014 , 2, 124001		3
2185	Pillared CobaltâAmino Acid Framework Catalysis for Styrene Carbonate Synthesis from CO2 and Epoxide by MetalâBulfonateâHalide Synergism. 2014 , 6, 284-292		47
2184	Metal organic framework. 2014 , 19, 1147-1157		1
2183	Porous Lanthanide Metalâ©rganic Frameworks for Gas Storage and Separation. 2014 , 75-107		13

2182	Hybrid gas separation polymeric membranes containing nanoparticles. 2014 , 54, 637-651	22
2181	An rht-type metalâBrganic framework constructed from an unsymmetrical ligand exhibiting high hydrogen uptake capability. 2014 , 4, 53975-53980	14
2180	Metal-Organic Frameworks: Mechanochemical Synthesis Strategies. 2014 , 1-19	7
2179	trans-1,2-Cyclohexanedisulfonic Acid: An Optically Active Linker for Coordination Polymers. 2014 , 2014, 6225-6231	5
2178	Nets, tiles, and metal-organic frameworks. 2014 , 2, 124106	10
2177	Hybrid Materials Based on the Embedding of Organically Modified Transition Metal Oxoclusters or Polyoxometalates into Polymers for Functional Applications: A Review. 2014 , 7, 3956-3989	85
2176	A series of divalent metal coordination polymers based on isomeric tetracarboxylic acids: synthesis, structures and magnetic properties. 2014 , 43, 17519-27	62
2175	Coordination frameworks assembled from Cu(II) ions and HâE1,3-bdpb ligands: X-ray and magneto structural investigations, and catalytic activity in the aerobic oxidation of tetralin. 2014 , 43, 16846-56	13
2174	Metal-Organic Framework Synthesis System Based on Fuzzy Predictive Control via Network Transmission. 2014 , 2014, 1-13	
2173	Self-assembly of metal-organic coordination networks using on-surface synthesized ligands. 2014 , 50, 15327-9	20
2172	van der Waals density functionals built upon the electron-gas tradition: facing the challenge of competing interactions. 2014 , 140, 18A539	86
2171	Elucidating the effects of adsorbent flexibility on fluid adsorption using simple models and flat-histogram sampling methods. 2014 , 140, 244106	25
2170	Crystal-to-crystal transformations and photoluminescence changes in the Cu(I) coordination networks based on a formamidinate ligand. 2014 , 16, 10640-10648	11
2169	Encapsulation of Bimetallic Nanoparticles into a MetalâDrganic Framework: Preparation and Microstructure Characterization of Pd/Au@ZIF-8. 2014 , 2014, 5514-5521	43
2168	On-surface synthesis of a two-dimensional porous coordination network: Unraveling adsorbate interactions. 2014 , 90,	53
2167	Preparation of Freestanding Conjugated Microporous Polymer Nanomembranes for Gas Separation. 2014 , 26, 7189-7193	104
2166	Influence of the coligand in the magnetic properties of a series of copper(II)âphenylmalonate complexes. 2014 , 16, 8106-8118	13
2165	Porous Cuâ B TC silica monoliths as efficient heterogeneous catalysts for the selective oxidation of alkylbenzenes. 2014 , 4, 30221-30224	26

2164	A facile and general coating approach to moisture/water-resistant metal-organic frameworks with intact porosity. 2014 , 136, 16978-81	342
2163	Carbonized nanoscale metal-organic frameworks as high performance electrocatalyst for oxygen reduction reaction. 2014 , 8, 12660-8	456
2162	Carbon Dioxide Sensitivity of Zeolitic Imidazolate Frameworks. 2014 , 126, 7601-7604	8
2161	Improved CO2 Capture from Flue Gas by Basic Sites, Charge Gradients, and Missing Linker Defects on Nickel Face Cubic Centered MOFs. 2014 , 24, 6130-6135	59
2160	Unusual magnetic behaviors and electronic configurations driven by diverse Co(II) or Mn(II) MOF architectures. 2014 , 53, 12885-95	27
2159	Mixed-metal MIL-100(Sc,M) (M=Al, Cr, Fe) for Lewis acid catalysis and tandem C-C bond formation and alcohol oxidation. 2014 , 20, 17185-97	88
2158	A robust nanoporous supramolecular metal-organic framework based on ionic hydrogen bonds. 2014 , 20, 11690-4	33
2157	Assembly and Catalytic Properties of Cobalt(II) and Copper(II) Coordination Polymers Based on Bis(imidazole) and Carboxylic Acid Mixed Ligands. 2014 , 640, 1484-1489	4
2156	Identifying the role of terahertz vibrations in metal-organic frameworks: from gate-opening phenomenon to shear-driven structural destabilization. 2014 , 113, 215502	159
2155	A major advance in characterizing nanoporous solids using a complementary triad of existing techniques. 2014 , 53, 12020-1	10
2154	Three-dimensional periodic supramolecular organic framework ion sponge in water and microcrystals. 2014 , 5, 5574	148
2153	Multifunktionale, Defekt-manipulierte Metall-organische Ger\(\)te mit Rutheniumzentren: Sorption und katalytische Eigenschaften. 2014 , 126, 7178-7182	32
2152	Metal organic frameworks (MOF) as CO2 adsorbents. 2014 , 50, 1551-1555	4
2151	Solvothermal synthesis, crystal structure and photoluminescence properties of four Cd(II) coordination polymers with different topological structures. 2014 , 4, 53608-53616	18
2150	Microporous coordination polymer [Zn4(dmf)(ur)2(ndc)4] as a heterogeneous catalyst for the Knoevenagel reaction. 2014 , 63, 2363-2368	4
2149	A three-dimensional zinc-based coordination polymer built from 5-carboxylato-1-carboxylatomethyl-2-oxidopyridinium with a 4-connected sra topology. 2014 , 70, 801-4	
2148	One- and two-dimensional Cd(II) coordination polymers incorporating organophosphinate ligands. 2014 , 70, 1069-74	2
2147	Self-assembly of three d10 metal coordination polymers based on a flexible bis(2-methylbenzimidazole) and dicarboxylate co-ligands. 2014 , 1070, 58-64	14

2146	Mesoporous materials for clean energy technologies. 2014 , 43, 7681-717	358
2145	Design and sensing applications of metalâBrganic framework composites. 2014 , 58, 71-78	225
2144	Water adsorption in porous metal-organic frameworks and related materials. 2014, 136, 4369-81	1433
2143	Supramolecular approaches towards ordered polymer materials. 2014 , 20, 1482-9	9
2142	Electronic chemical potentials of porous metal-organic frameworks. 2014 , 136, 2703-6	221
2141	1,1-Dimethyl-2,3,4,5-tetraphenylsilole as a Molecular Rotor Probe to Investigate the Microviscosity of Imidazolium Ionic Liquids. 2014 , 24, 431-441	14
2140	Luminescent metal-organic frameworks for chemical sensing and explosive detection. 2014 , 43, 5815-40	3218
2139	Pore size dynamics in interpenetrated metal organic frameworks for selective sensing of aromatic compounds. 2014 , 819, 78-81	16
2138	[M3(B-O)(O2CR)6] and related trigonal prisms: versatile molecular building blocks for crystal engineering of metalâBrganic material platforms. 2014 , 5, 1269-1282	114
2137	Metal-organic frameworks as cathode materials for Li-O2 batteries. 2014 , 26, 3258-62	240
2136	Influence of the counter anion and steric hindrance of pyrazolyl and imidazolyl flexible ligands on the structure of zinc-based coordination polymers. 2014 , 414, 217-225	19
2135	Metal-organic frameworks: recognizing the unrecognizable. 2014 , 6, 277-8	7
2134	Covalent Heme Framework as a Highly Active Heterogeneous Biomimetic Oxidation Catalyst. 2014 , 26, 1639-1644	67
2133	Metal-organic frameworks based on flexible ligands (FL-MOFs): structures and applications. 2014 , 43, 5867-95	638
2132	High Pressure Adsorption of CO2 and CH4 on Zr-MOFs. 2014 , 53, 15500-15507	49
2131	A Microporous MetalâDrganic Framework Constructed from a New Tetracarboxylic Acid for Selective Gas Separation. 2014 , 14, 2522-2526	49
2130	MOFs as proton conductorschallenges and opportunities. 2014 , 43, 5913-32	1017
2129	Amino-functionalized Zr(IV) metalâBrganic framework as bifunctional acidâBase catalyst for Knoevenagel condensation. 2014 , 390, 198-205	125

2128	Mixed ligand coordination polymers with flexible bis-imidazole linker and angular sulfonyldibenzoate: Crystal structure, photoluminescence and photocatalytic activity. 2014 , 213, 43-51	36
2127	Synthesis, crystal structures, luminescence and catalytic properties of three silver(I) coordination polymers with bis(imidazole) and benzenedicarboxylic acid ligands. 2014 , 39, 477-485	15
2126	Incorporating polyoxometalates into a porous MOF greatly improves its selective adsorption of cationic dyes. 2014 , 20, 6927-33	207
2125	Manipulation of discrete nanostructures by selective modulation of noncovalent forces. <i>Science</i> , 2014 , 344, 499-504	124
2124	Phosphoric acid loaded azo (-N?N-) based covalent organic framework for proton conduction. 2014 , 136, 6570-3	433
2123	Two pillared-layer coordination polymers based on different cadmium/carboxylate units and 2-amine-4,4?-bis(1-imidazolyl)-bibenzene. 2014 , 40, 138-142	8
2122	Metal cation-dependent construction of two 3-D interpenetrating networks based on the ligand 1-(4-carboxyphenyl)-1,2,4-triazole. 2014 , 39, 70-74	14
2121	Carbon dioxide adsorption on MIL-100(M) (M = Cr, V, Sc) metalâBrganic frameworks: IR spectroscopic and thermodynamic studies. 2014 , 190, 234-239	35
2120	Multifunctional, defect-engineered metal-organic frameworks with ruthenium centers: sorption and catalytic properties. 2014 , 53, 7058-62	203
2119	High-throughput computational screening of metal-organic frameworks. 2014 , 43, 5735-49	251
2118	Amorphous metal-organic frameworks. 2014 , 47, 1555-62	357
2117	Direct X-ray observation of trapped COâlīn a predesigned porphyrinic metal-organic framework. 2014 , 20, 7632-7	37
2116	Mechanistic studies of two-dimensional covalent organic frameworks rapidly polymerized from initially homogenous conditions. 2014 , 136, 8783-9	178
2115	Enhanced room-temperature hydrogen storage capacity in Pt-loaded graphene oxide/HKUST-1 composites. 2014 , 39, 2160-2167	81
2114	Metal-organic frameworks in chromatography. 2014 , 1348, 1-16	87
2113	An unexpected cobalt(III) complex containing a Schiff base ligand: Synthesis, crystal structure, spectroscopic behavior, electrochemical property and SOD-like activity. 2014 , 131, 526-33	71
2112	Photoluminescent 3D lanthanide MOFs with a rare (10,3)-d net based on a new tripodal organic linker. 2014 , 16, 6469-6475	32
2111	Adsorptive denitrogenation of model fuel with CuCl-loaded metalâBrganic frameworks (MOFs). 2014 , 251, 35-42	89

(2014-2014)

2110	Rational design of metalâBrganic frameworks with anticipated porosities and functionalities. 2014 , 16, 4069-4083	102
2109	Stabilization of immiscible polymer blends using structure directing metal organic frameworks (MOFs). 2014 , 55, 2028-2034	45
2108	The power of the chelate effect: Syntheses and crystal structures of three discrete complexes containing 20-membered chelate rings derived from an â@xtended-reachâ[ligand. 2014 , 73, 77-80	1
2107	Metal-organic frameworks for air purification of toxic chemicals. 2014 , 114, 5695-727	707
2106	Bis(pyrazolato)-Based Metalâ©rganic Frameworks Fabricated with 4,4?-Bis((3,5-dimethyl-1H-pyrazol-4-yl)methyl)biphenyl and Late Transition Metals. 2014 , 14, 3142-3152	15
2105	High methane storage capacity in aluminum metal-organic frameworks. 2014 , 136, 5271-4	349
2104	Tuning the host-guest interactions in a phosphine coordination polymer through different types of post-synthetic modification. 2014 , 53, 282-8	28
2103	Topological analysis of metal-organic frameworks with polytopic linkers and/or multiple building units and the minimal transitivity principle. 2014 , 114, 1343-70	894
2102	Combinational Synthetic Approaches for Isoreticular and Polymorphic Metalâ®rganic Frameworks with Tuned Pore Geometries and Surface Properties. 2014 , 26, 1711-1719	34
2101	Metal-cation-directed de novo assembly of a functionalized guest molecule in the nanospace of a metal-organic framework. 2014 , 136, 1202-5	148
2100	Chiral metal-organic frameworks bearing free carboxylic acids for organocatalyst encapsulation. 2014 , 53, 13821-5	75
2099	Selective catalytic behavior of a phosphine-tagged metal-organic framework organocatalyst. 2014 , 20, 15467-72	16
2098	MIL-101-SO3H: a highly efficient Br\u00e4sted acid catalyst for heterogeneous alcoholysis of epoxides under ambient conditions. 2014 , 20, 14976-80	123
2097	A hafnium-based metal-organic framework as an efficient and multifunctional catalyst for facile CO2 fixation and regioselective and enantioretentive epoxide activation. 2014 , 136, 15861-4	408
2096	A hybrid absorption-adsorption method to efficiently capture carbon. 2014 , 5, 5147	105
2095	Two 3D Coordination Frameworks Based on Benzobisimidazole Linkers Generated under Similar Conditions: Synthesis, Structures and Thermal Properties. 2014 , 2014, 5362-5369	3
2094	Structure of a designed protein cage that self-assembles into a highly porous cube. 2014 , 6, 1065-71	223
2093	Postsynthesis Annealing of MOF-5 Remarkably Enhances the Framework Structural Stability and CO2 Uptake. 2014 , 26, 6333-6338	100

2092	Transient breakthroughs of CO2/CH4 and C3H6/C3H8 mixtures in fixed beds packed with Ni-MOF-74. 2014 , 117, 407-415	41
2091	How Structure-Directing Cations Tune the Fluorescence of MetalâDrganic Frameworks. 2014 , 14, 5452-5465	22
2090	Two appealing alternatives for MOFs synthesis: solvent-free oven heating vs. microwave heating. 2014 , 4, 60409-60412	24
2089	A multifunctional 3D chiral porous ferroelectric metal-organic framework for sensing small organic molecules and dye uptake. 2014 , 9, 3094-8	29
2088	Hierarchical cobalt-formate framework series with $(412?63)(49?66)$ n (n = 1âB) topologies exhibiting slow dielectric relaxation and weak ferromagnetism. 2014 , 2, 124104	31
2087	Research Update: A hafnium-based metal-organic framework as a catalyst for regioselective ring-opening of epoxides with a mild hydride source. 2014 , 2, 123901	7
2086	A rare (3,4,5)-connected metal-organic framework featuring an unprecedented 1D + 2D -f3D self-interpenetrated array and an O-atom lined pore surface: structure and controlled drug release. 2014 , 50, 15807-10	26
2085	First-principles predictions of potential hydrogen storage materials: Novel sandwich-type ethylene dimetallocene complexes. 2014 , 39, 20017-20023	16
2084	MetalâBrganic framework thin films with well-controlled growth directions confirmed by x-ray study. 2014 , 2, 124105	33
2083	Zeolitic Imidazolate Frameworks: Synthesis, Functionalization, and Catalytic/Adsorption Applications. 2014 , 18, 101-127	86
2082	A surface coordination network based on copper adatom trimers. 2014 , 53, 12955-9	58
2081	Protein crystalline frameworks with controllable interpenetration directed by dual supramolecular interactions. 2014 , 5, 4634	102
2080	A five-coordinate heme dioxygen adduct isolated within a metal-organic framework. 2014 , 136, 16489-92	77
2079	Intrinsic and extrinsic proton conductivity in metal-organic frameworks. 2014 , 4, 54382-54387	67
2078	A Series of Cullâlınıı Metalâlınganic Frameworks Based on 2,2?-Bipyridine-3,3?-dicarboxylic Acid: Syntheses, Structures, and Magnetic Properties. 2014 , 14, 6409-6420	18
2077	Metal-binding studies of linear rigid-axle [2]pseudorotaxanes with in situ generated anionic metal halide complexes. 2014 , 16, 7320	6
2076	The influence of 1-alkyl-3-methyl imidazolium ionic liquids on a series of cobalt-1,4-benzenedicarboxylate metalâBrganic frameworks. 2014 , 16, 10649-10657	24
2075	Coordination polymers built with transition metal sulphates and angular 2,5-bis(imidazol-1-yl)thiophene (thim2): synthesis, structure and photoluminescent properties. 2014 , 16, 6203-6212	9

2074	Electrochemical investigation of covalently post-synthetic modified SURGEL coatings. 2014 , 50, 11129-31	21
2073	Controlled Cyclopolymerization of Difunctional Vinyl Monomers in Coordination Nanochannels. 2014 , 47, 7321-7326	25
2072	Preparation of highly controlled nanostructured Au within mesopores using reductive deposition in non-polar environments. 2014 , 4, 27201-27206	11
2071	A family of three magnetic metal organic frameworks: their synthesis, structural, magnetic and vapour adsorption study. 2014 , 16, 4742-4752	19
2070	Zinc hydroxide nanostrands: unique precursors for synthesis of ZIF-8 thin membranes exhibiting high size-sieving ability for gas separation. 2014 , 16, 9788-9791	26
2069	A channel-type mesoporous In(III)âdarboxylate coordination framework with high physicochemical stability for use as an electrode material in supercapacitors. 2014 , 2, 9828-9834	111
2068	A novel porous metalâBrganic framework from a new bis(acylhydrazone) ligand capable of reversibly adsorbing/desorbing water and small alcohol molecules. 2014 , 16, 4095-4099	4
2067	Tuning the luminescence of metal-organic frameworks for detection of energetic heterocyclic compounds. 2014 , 136, 15485-8	341
2066	Synthesis, structure, topology and magnetic properties of new coordination polymers based on 5(âBr/âttoOH)-substituted nicotinic acid. 2014 , 16, 5244-5256	23
2065	Preparation and carbon dioxide uptake capacity of N-doped porous carbon materials derived from direct carbonization of zeolitic imidazolate framework. 2014 , 79, 213-226	118
2064	Structural and functional studies on ternary coordination polymers from 5-bromoisophthalate and imidazole based flexible linker. 2014 , 4, 7352	18
2063	A robust porous pillar-chained Cd-framework with selective sorption for CO2 and guest-driven tunable luminescence. 2014 , 16, 3848	17
2062	Nanoscale zeolitic imidazolate framework-8 as a selective adsorbent for theophylline over caffeine and diprophylline. 2014 , 4, 33047-33054	17
2061	The concept, reality and utility of single-site heterogeneous catalysts (SSHCs). 2014 , 16, 7647-61	68
2060	Toxic gas removalmetal-organic frameworks for the capture and degradation of toxic gases and vapours. 2014 , 43, 5419-30	715
2059	Hollow metal-organic framework nanospheres via emulsion-based interfacial synthesis and their application in size-selective catalysis. 2014 , 6, 18163-71	128
2058	Octadecanuclear macrocycles and nonanuclear bowl-shaped structures based on two analogous pyridyl-substituted imidazole-4,5-dicarboxylate ligands. 2014 , 136, 15521-4	28
2057	Zinc(II) and cadmium(II) metal-organic frameworks with 4-imidazole containing tripodal ligand: sorption and anion exchange properties. 2014 , 43, 6012-20	44

2056	Dynamic response of ultrathin highly dense ZIF-8 nanofilms. 2014 , 50, 11698-700	18
2055	An alternative strategy to construct Fe(II)-based MOFs with multifarious structures and magnetic behaviors. 2014 , 16, 9208-9215	26
2054	Cullâ P DC-bpe frameworks (PDC = 2,5-pyridinedicarboxylate, bpe = 1,2-di(4-pyridyl)ethylene): mapping of herringbone-type structures. 2014 , 16, 8726-8735	11
2053	A rod-packing microporous hydrogen-bonded organic framework for highly selective separation of C2H2/CO2 at room temperature. 2015 , 54, 574-7	137
2052	Crystal Transformation in Zeolitic-Imidazolate Framework. 2014 , 14, 6589-6598	120
2051	Chiral Metalâ®rganic Frameworks Bearing Free Carboxylic Acids for Organocatalyst Encapsulation. 2014 , 126, 14041-14045	18
2050	Computation-Ready, Experimental MetalâDrganic Frameworks: A Tool To Enable High-Throughput Screening of Nanoporous Crystals. 2014 , 26, 6185-6192	387
2049	MetalâBrganic frameworks constructed from mixed infinite inorganic units and adenine. 2014 , 16, 3082	17
2048	Metal-organic frameworks: 3D frameworks from 3D printers. 2014 , 6, 953-4	9
2047	Organic linker geometry controlled synthesis of coordination polymer spheres and their thermal transformation to yolkaBhell metal oxides. 2014 , 2, 15480-15487	9
2046	An ultrastable, flexible POM-based coordination polymer with redox properties. 2014 , 16, 7865-7868	14
2045	An electrodeposited lanthanide MOF thin film as a luminescent sensor for carbonate detection in aqueous solution. 2014 , 2, 8683-8690	102
2044	The use of a rigid tritopic phosphonic ligand for the synthesis of a robust honeycomb-like layered zirconium phosphonate framework. 2014 , 50, 5737-40	45
2043	A dynamic study of the structural change in the binary network in response to guest inclusion. 2014 , 16, 8778-82	22
2042	ROD-8, a rod MOF with a pyrene-cored tetracarboxylate linker: framework disorder, derived nets and selective gas adsorption. 2014 , 16, 6291-6295	24
2041	Photonic metal-organic framework composite spheres: a new kind of optical material with self-reporting molecular recognition. 2014 , 6, 11995-2001	28
2040	New Zn†+ coordination polymers constructed from acylhydrazidate molecules: synthesis and structural characterization. 2014 , 43, 15617-27	15
2039	Supercritical carbon dioxide-assisted drug loading and release from biocompatible porous metal-organic frameworks. 2014 , 2, 7551-7558	29

2038	Two 3D metalâBrganic frameworks of Cd(II): modulation of structures and porous properties based on linker functionalities. 2014 , 16, 4877-4885	16
2037	Tunable luminescence from rare 2D Ga(III)/In(III) coordination polymers coexisting with three different conjugated system aromatic ligands. 2014 , 50, 5023-6	21
2036	Growth of a Highly Porous Coordination Polymer on a Macroporous Polymer Monolith Support for Enhanced Immobilized Metal Ion Affinity Chromatographic Enrichment of Phosphopeptides. 2014 , 24, 5790-5797	54
2035	The ionothermal synthesis, structure, and magnetism-structure relationship of two biphenyl tetracarboxylic acid-based metal-organic frameworks. 2014 , 43, 16515-21	14
2034	Generation of bimodal porosity via self-extra porogenes in nanoporous carbons for supercapacitor application. 2014 , 2, 15420-15427	16
2033	Hydrothermal synthesis, structure and magnetic properties of a three-dimensional cobalt(II) - aminophenyltetrazolate coordination polymer. 2014 , 43, 7263-8	4
2032	Insight into the mechanism of modulated syntheses: in situ synchrotron diffraction studies on the formation of Zr-fumarate MOF. 2014 , 16, 9198-9207	92
2031	Functional Networks of Organic and Coordination Polymers: Catalysis of Fructose Conversion. 2014 , 26, 6257-6264	51
2030	Single-crystal growth of coordination networks via the gas phase and dependence of iodine encapsulation on the crystal size. 2014 , 50, 13793-6	10
2029	A series of coordination polymers based on a new 2?,5?-dimethyl-1,1?:4?,1??-terphenyl-3,3??-dicarboxylic acid ligand: structures, luminescence, and magnetic properties. 2014 , 16, 406-414	20
2028	Artificial reticular structure by continuous titanium oxide frameworks. 2014 , 2, 10688	7
2027	Polymorphism of metal-organic frameworks: direct comparison of structures and theoretical NâLuptake of topological pto- and tbo-isomers. 2014 , 50, 4207-10	37
2026	Cholanamide components for organic alloys; expanding the scope of nanoporous steroidal ureas. 2014 , 50, 4803-5	10
2025	A spin-canted Ni(II)4-based metal-organic framework with gas sorption properties and high adsorptive selectivity for light hydrocarbons. 2014 , 50, 9161-4	27
2024	A highly stable MOF with a rod SBU and a tetracarboxylate linker: unusual topology and CO2 adsorption behaviour under ambient conditions. 2014 , 50, 4047-9	90
2023	Diffusive and rotational dynamics of condensed n-Hâltonfined in MCM-41. 2014 , 16, 17960-74	6
2022	Ordered vacancies and their chemistry in metal-organic frameworks. 2014 , 136, 14465-71	133
2021	One-pot synthesis of protein-embedded metal-organic frameworks with enhanced biological activities. 2014 , 14, 5761-5	585

2020	A Distinctive PdCl2-Mediated Transformation of Fe-Based Metallogels into MetalâΩrganic Frameworks. 2014 , 14, 3434-3437	29
2019	Water stability and adsorption in metal-organic frameworks. 2014 , 114, 10575-612	1513
2018	Group 13 Metal Carboxylates: Using Molecular Clusters As Hybrid Building Units in a MIL-53 Type Framework. 2014 , 14, 5310-5317	12
2017	Directed growth of electroactive metal-organic framework thin films using electrophoretic deposition. 2014 , 26, 6295-300	219
2016	Layered MetalâDrganic Frameworks Based on Octahedral Lanthanides and a Phosphonate Linker: Control of Crystal Size. 2014 , 14, 4873-4877	15
2015	Syntheses, structures and photocatalytic properties of five new praseodymium-antimony oxochlorides: from discrete clusters to 3D inorganic-organic hybrid racemic compounds. 2014 , 43, 10064-73	11
2014	Vanadium-Node-Functionalized UiO-66: A Thermally Stable MOF-Supported Catalyst for the Gas-Phase Oxidative Dehydrogenation of Cyclohexene. 2014 , 4, 2496-2500	174
2013	CoreâBhell Catalysts of Metal Nanoparticle Core and MetalâDrganic Framework Shell. 2014 , 4, 4409-4419	281
2012	2D Cd(II)-lanthanide(III) heterometallic-organic frameworks based on metalloligands for tunable luminescence and highly selective, sensitive, and recyclable detection of nitrobenzene. 2014 , 53, 8105-13	94
2011	ZIF-8@PBI-Bul composite membranes: elegant effects of PBI structural variations on gas permeation performance. 2014 , 2, 12962	36
2010	Synthesis of zeolite@metalâBrganic framework coreâBhell particles as bifunctional catalysts. 2014 , 4, 30673	30
2009	One-pot synthesis of Pd@MOF composites without the addition of stabilizing agents. 2014 , 50, 14752-5	72
2008	Synthesis of an amino-functionalized metalâbrganic framework at a nanoscale level for gold nanoparticle deposition and catalysis. 2014 , 2, 20588-20596	110
2007	Effect of electrostatic properties of IRMOFs on VOCs adsorption: a density functional theory study. 2014 , 20, 777-788	5
2006	An unprecedented seven-connected coordination network based on octanuclear supertetrahedral lead(II) cluster as a secondary building unit. 2014 , 46, 244-247	7
2005	Template-directed synthesis of metal-organic materials. 2014 , 43, 5444-55	228
2004	Evaluating different classes of porous materials for carbon capture. 2014 , 7, 4132-4146	152
2003	Beyond post-synthesis modification: evolution of metal-organic frameworks via building block replacement. 2014 , 43, 5896-912	621

(2014-2014)

2002	Size-selective crystallization of homochiral camphorate metal-organic frameworks for lanthanide separation. 2014 , 136, 12572-5	121
2001	Nanocomposite of europium organic framework and quantum dots for highly sensitive chemosensing of trinitrotoluene. 2014 , 242, 88-93	26
2000	Metal-organic frameworks-derived mesoporous carbon for high performance lithiumâBelenium battery. 2014 , 146, 134-141	61
1999	Synthesis, crystal structure, and third-order non-linear optical properties of a new Cd(II) polymer constructed from pyrazine-2-carboxylic acid. 2014 , 67, 2630-2642	3
1998	Controllable Self-Assembly of Two Luminescent Silver(I) MetalâDrganic Frameworks Bearing a Tetradentate Ligand. 2014 , 14, 4674-4680	16
1997	Divergent kinetic and thermodynamic hydration of a porous Cu(II) coordination polymer with exclusive COâlsorption selectivity. 2014 , 136, 10906-9	213
1996	Anion Driven [CuIIL2]n Frameworks: Crystal Structures, Guest-Encapsulation, Dielectric, and Possible Ferroelectric Properties. 2014 , 26, 3811-3817	35
1995	CPO-27-M as heterogeneous catalysts for aldehyde cyanosilylation and styrene oxidation. 2014 , 394, 57-65	48
1994	Four alkaline earth metal complexes with structural diversities induced by cation size. 2014 , 421, 318-325	15
1993	Highly porous ZIF-8 nanocrystals prepared by a surfactant mediated method in aqueous solution with enhanced adsorption kinetics. 2014 , 6, 14994-9	69
1992	Superacidity in sulfated metal-organic framework-808. 2014 , 136, 12844-7	350
1991	Ultra-strong and low-density nanotubular bulk materials with tunable feature sizes. 2014 , 26, 4808-13	31
1990	Use of Charge-Assisted Hydrogen Bonding in the Supramolecular Assembly of Hybrid Uranyl Materials. 2014 , 14, 1357-1365	29
1989	A combinatorial approach towards water-stable metal-organic frameworks for highly efficient carbon dioxide separation. 2014 , 7, 2791-5	68
1988	Surfactant media to grow new crystalline cobalt 1,3,5-benzenetricarboxylate metal-organic frameworks. 2014 , 53, 8529-37	131
1987	An exceptionally stable and water-resistant metal-organic framework with hydrophobic nanospaces for extracting aromatic pollutants from water. 2014 , 20, 12004-8	68
1986	MetalâBrganic framework encapsulated Pd nanoparticles: towards advanced heterogeneous catalysts. 2014 , 5, 3708-3714	190
1985	Post-synthetic metalation of metal-organic frameworks. 2014 , 43, 5933-51	450

1984	Substitution reactions in metal-organic frameworks and metal-organic polyhedra. 2014 , 43, 5952-81	184
1983	Versatile mesoporous DyIII coordination framework for highly efficient trapping of diverse pollutants. 2014 , 53, 7074-6	33
1982	Syntheses and Characterization of Cyanide-Bridged Bimetallic Compounds Zn(terpy)(H2O)M(CN)4 (terpy = 2,2?:6?,2??-ter[pyridine; M = Ni, Pd, Pt) with Linear Chains. 2014 , 640, 2287-2291	6
1981	Pyrolytic cavitation, selective adsorption and molecular recognition of a porous Eu(III) MOF. 2014 , 43, 15305-7	15
1980	Adsorption of Pyridine over Amino-Functionalized MetalâDrganic Frameworks: Attraction via Hydrogen Bonding versus BaseâBase Repulsion. 2014 , 118, 21049-21056	78
1979	A Simple and Rational Approach for Binodal Metalâ©rganic Frameworks with Tetrahedral Nodes and Unexpected Multimodal Porosities from Nonstoichiometric Defects. 2014 , 14, 1998-2002	12
1978	A porous metalâBrganic framework with an elongated anthracene derivative exhibiting a high working capacity for the storage of methane. 2014 , 2, 11516	40
1977	Recent advances in porous polyoxometalate-based metal-organic framework materials. 2014 , 43, 4615-32	709
1976	Incorporation of iron hydrogenase active sites into a highly stable metal-organic framework for photocatalytic hydrogen generation. 2014 , 50, 10390-3	145
1975	Defining the Proton Topology of the Zr6-Based Metal-Organic Framework NU-1000. 2014 , 5, 3716-23	197
1974	Adsorptive denitrogenation of model fossil fuels with Lewis acid-loaded metalâBrganic frameworks (MOFs). 2014 , 255, 623-629	51
1973	Are ZrâBased MOFs water stable? Linker hydrolysis vs. capillary-force-driven channel collapse. 2014 , 50, 8944-6	223
1972	Photocatalytic metal-organic framework from CdS quantum dot incubated luminescent metallohydrogel. 2014 , 136, 14845-51	231
1971	Bilayer and 3-D open framework: Pillared metal-organic frameworks based on zinc and cadmic (6,3)-layers. 2014 , 48, 65-68	4
1970	Isostructural synthesis of porous metal-organic nanotubes. 2014 , 136, 10983-8	57
1969	Theoretical modeling of spin crossover in metal-organic frameworks: [Fe(pz)2Pt(CN)4] as a case study. 2014 , 53, 11020-8	32
1968	Synthesis and hydrogen adsorption properties of internally polarized 2,6-azulenedicarboxylate based metalâBrganic frameworks. 2014 , 2, 18823-18830	22
1967	A 3-D diamondoid MOF catalyst based on in situ generated [Cu(L)2] N-heterocyclic carbene (NHC) linkers: hydroboration of CO2. 2014 , 50, 11760-3	65

(2014-2014)

1966	A copper-formate framework showing a simple to helical antiferroelectric transition with prominent dielectric anomalies and anisotropic thermal expansion, and antiferromagnetism. 2014 , 20, 15872-83	33
1965	New MetalâDrganic Frameworks Constructed from the 4-Imidazole-Carboxylate Ligand: Structural Diversities, Luminescence, and Gas Adsorption Properties. 2014 , 14, 3727-3741	57
1964	Porous Metal-Organic Frameworks for Gas Storage and Separation: What, How, and Why?. 2014 , 5, 3468-79	403
1963	[(C2H5)4N][U2O4(HCOO)5], an ammonium uranyl formate framework showing para- to ferro-electric transition: synthesis, structures, and properties. 2014 , 53, 8708-16	15
1962	Linear bilateral extended 2,2?:6?,2??-terpyridine ligands, their coordination complexes and heterometallic supramolecular networks. 2014 , 5, 4317-4327	14
1961	New open-framework cobalt sulfate-oxalates based on molecular and chain-like building blocks. 2014 , 43, 13476-9	15
1960	Microporous metalâBrganic frameworks built from rigid tetrahedral tetrakis(4-tetrazolylphenyl)silane connectors. 2014 , 16, 8094-8097	14
1959	Straightforward installation of carbon-halogen, carbon-oxygen and carbon-carbon bonds within metal-organic frameworks (MOF) via palladium-catalysed direct C-H functionalization. 2014 , 50, 13261-4	11
1958	Nanowire-directed templating synthesis of metal-organic framework nanofibers and their derived porous doped carbon nanofibers for enhanced electrocatalysis. 2014 , 136, 14385-8	506
1957	Structures, photoluminescence and photocatalytic properties of two novel metalâBrganic frameworks based on tetrazole derivatives. 2014 , 16, 10485-10491	23
1956	Mesoporous non-siliceous inorganicâBrganic hybrids: a promising platform for designing multifunctional materials. 2014 , 38, 1905-1922	41
1955	Highly selective sieving of small gas molecules by using an ultra-microporous metalâBrganic framework membrane. 2014 , 7, 4053-4060	115
1954	Nanospheres, nanotubes, toroids, and gels with controlled macroscopic chirality. 2014 , 53, 13720-4	54
1953	Efficient molybdenum(VI) modified Zr-MOF catalysts for epoxidation of olefins. 2014 , 4, 42977-42982	59
1952	Discrete metal-carboxylate self-assembled cages: Design, synthesis and applications. 2014 , 280, 1-27	137
1951	Metal-organic framework derived hybrid Co3O4-carbon porous nanowire arrays as reversible oxygen evolution electrodes. 2014 , 136, 13925-31	1512
1950	Nitrogen-doped porous carbon derived from metal-organic gel for electrochemical analysis of heavy-metal ion. 2014 , 6, 16210-6	90
1949	A fluorescent metal-organic framework for highly selective detection of nitro explosives in the aqueous phase. 2014 , 50, 8915-8	411

1948	Adsorption of Phenol and p-Nitrophenol from Aqueous Solutions on MetalâDrganic Frameworks: Effect of Hydrogen Bonding. 2014 , 59, 1476-1482	170
1947	Metal phosphonate hybrid materials: from densely layered to hierarchically nanoporous structures. 2014 , 1, 360-383	117
1946	A fluorescent sensor for highly selective detection of nitroaromatic explosives based on a 2D, extremely stable, metal-organic framework. 2014 , 20, 3589-94	247
1945	In situ growth of IRMOF-3 combined with ionic liquids to prepare solid-phase microextraction fibers. 2014 , 829, 22-7	74
1944	Force-Field Development from Electronic Structure Calculations with Periodic Boundary Conditions: Applications to Gaseous Adsorption and Transport in Metal-Organic Frameworks. 2014 , 10, 1477-88	97
1943	Methane Adsorption in Metalâ©rganic Frameworks Containing Nanographene Linkers: A Computational Study. 2014 , 118, 15573-15580	16
1942	CO(2) selective 1D double chain dipyridyl-porphyrin based porous coordination polymers. 2014 , 43, 5680-6	16
1941	ZIF-71 as a potential filler to prepare pervaporation membranes for bio-alcohol recovery. 2014 , 2, 10034-1004	10124
1940	Fluorocarbon adsorption in hierarchical porous frameworks. 2014 , 5, 4368	85
1939	A Smfggbord of Separation Strategies Using Microporous Crystalline Materialsâ This lecture was delivered at CHEMCON 2013, held in Mumbai, India during 27â BO December 2013. View all notes. 2014 , 56, 147-174	1
1938	A thermally derived and optimized structure from ZIF-8 with giant enhancement in CO2 uptake. 2014 , 7, 2232-2238	166
1937	AgPd nanoparticles supported on MIL-101 as high performance catalysts for catalytic dehydrogenation of formic acid. 2014 , 2, 11060	89
1936	Solvent Dependent Structures of Hydrogen-Bonded Organic Frameworks of 2,6-Diaminopurine. 2014 , 14, 3634-3638	17
1935	Metal-organic framework threaded with aminated polymer formed in situ for fast and reversible ion exchange. 2014 , 136, 7209-12	93
1934	Supercapacitors of nanocrystalline metal-organic frameworks. 2014 , 8, 7451-7	540
1933	Preparation of Co3O4 electrode materials with different microstructures via pseudomorphic conversion of Co-based metalâBrganic frameworks. 2014 , 2, 14393-14400	57
1932	Metal-organic framework membranes: from synthesis to separation application. 2014 , 43, 6116-40	1122
1931	MOF-based electronic and opto-electronic devices. 2014 , 43, 5994-6010	952

1	930	A zirconium squarate metal-organic framework with modulator-dependent molecular sieving properties. 2014 , 50, 10055-8	58
1	.929	In silico screening of metal organic framework for iodine capture and storage. 2014 , 610-611, 45-49	38
1	928	One- and two-dimensional cobalt(II) coordination polymers derived from flexible bis(benzimidazole) and aromatic carboxylate co-ligands. 2014 , 39, 461-467	12
1	.927	Cobalt(II) and silver(I) coordination polymers constructed from flexible bis(5,6-dimethylbenzimidazole) and substituted isophthalate co-ligands. 2014 , 39, 535-541	16
1	926	Plant metabolomics for plant chemical responses to belowground community change by climate change. 2014 , 57, 137-149	16
1	.925	Entangled two-dimensional coordination networks: a general survey. 2014 , 114, 7557-80	221
1	924	Topological Diversity of Supramolecular Networks Constructed from Copper(II) Aminoalcohol Blocks and 2,6-Naphthalenedicarboxylate Linkers: Self-Assembly Synthesis, Structural Features, and Magnetic Properties. 2014 , 14, 3398-3407	38
1	923	Nanoporous metal organic framework materials for smart applications. 2014 , 30, 1598-1612	81
1	922	Solid-state principles applied to organicalihorganic perovskites: new tricks for an old dog. 2014 , 5, 4712-4715	610
1	.921	MOF positioning technology and device fabrication. 2014 , 43, 5513-60	516
1	920	A novel anode material derived from organic-coated ZIF-8 nanocomposites with high performance in lithium ion batteries. 2014 , 50, 8057-60	132
1	.919	Energetics of Formation and Hydration of a Porous Metal Organic Nanotube. 2014 , 26, 5105-5112	15
1	918	A new family of zinc metalâBrganic framework polymorphs containing anthracene tetracarboxylates. 2014 , 16, 8937-8940	10
1	.917	Concerted functions of anions and cations in a molecular ionic crystal with stable three-dimensional micropores. 2014 , 53, 3655-61	26
1	916	Mechanical downsizing of a gadolinium(III)-based metal-organic framework for anticancer drug delivery. 2014 , 20, 10514-8	185
1	915	Development of a Ru complex-incorporated MOF photocatalyst for hydrogen production under visible-light irradiation. 2014 , 50, 6779-81	115
1	914	Energy transfer on demand: photoswitch-directed behavior of metal-porphyrin frameworks. 2014 , 136, 11886-9	156
1	.913	Biophysical characterisation, antitumor activity and MOF encapsulation of a half-sandwich ruthenium(ii) mitoxantronato system. 2014 , 2, 2473-2477	28

1912	Redox-Induced Photoluminescence of MetalâDrganic Coordination Polymer Gel. 2014, 118, 19287-19293	15
1911	MOFs in Pharmaceutical Technology. 2014 , 83-112	6
1910	Synthesis and characterization of metal-organic framework-74 containing 2, 4, 6, 8, and 10 different metals. 2014 , 53, 5881-3	303
1909	Carbon dioxide sensitivity of zeolitic imidazolate frameworks. 2014 , 53, 7471-4	64
1908	Structural design and electronic properties of halogen-bridged mixed-valence ladder systems with even numbers of legs. 2014 , 16, 6277	23
1907	An amine functionalized rht-type metal-organic framework with the improved performance for gas uptake. 2014 , 46, 13-16	15
1906	A Yb(III)âZn(II) heterometallic coordination polymer with interesting three-fold 1D pseudo-nanotube architectures. 2014 , 1068, 53-57	
1905	Luminescent nanocrystal metal organic framework based biosensor for molecular recognition. 2014 , 43, 114-117	45
1904	Solvent-Induced Single Crystal To Single Crystal Transformation and Complete Metal Exchange of a Pyrene-Based MetalâDrganic Framework. 2014 , 14, 1738-1743	47
1903	Tuning the structure and function of metal-organic frameworks via linker design. 2014 , 43, 5561-93	1441
1903 1902	Tuning the structure and function of metal-organic frameworks via linker design. 2014 , 43, 5561-93 Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals âla nanoindentation study. 2014 , 5, 2392	1441 52
	Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals âla	
1902	Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals âla nanoindentation study. 2014 , 5, 2392 pH-Controlled topologies of two Co(II) complexes based on 5-Nitro-1,2,3-benzenetricarboxylic acid	52
1902 1901	Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals âla nanoindentation study. 2014 , 5, 2392 pH-Controlled topologies of two Co(II) complexes based on 5-Nitro-1,2,3-benzenetricarboxylic acid and 1,6-Bis(1,2,4-triazole-1-yl)hexane. 2014 , 49, 276-282 Structural complexity in metal-organic frameworks: simultaneous modification of open metal sites	52
1902 1901 1900	Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals âla nanoindentation study. 2014, 5, 2392 pH-Controlled topologies of two Co(II) complexes based on 5-Nitro-1,2,3-benzenetricarboxylic acid and 1,6-Bis(1,2,4-triazole-1-yl)hexane. 2014, 49, 276-282 Structural complexity in metal-organic frameworks: simultaneous modification of open metal sites and hierarchical porosity by systematic doping with defective linkers. 2014, 136, 9627-36 Engineering of Band Gap in MetalâDrganic Frameworks by Functionalizing Organic Linker: A	52 20 195
1902 1901 1900	Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals âla nanoindentation study. 2014, 5, 2392 pH-Controlled topologies of two Co(II) complexes based on 5-Nitro-1,2,3-benzenetricarboxylic acid and 1,6-Bis(1,2,4-triazole-1-yl)hexane. 2014, 49, 276-282 Structural complexity in metal-organic frameworks: simultaneous modification of open metal sites and hierarchical porosity by systematic doping with defective linkers. 2014, 136, 9627-36 Engineering of Band Gap in Metalâ@rganic Frameworks by Functionalizing Organic Linker: A Systematic Density Functional Theory Investigation. 2014, 118, 4567-4577 Synthesis, crystal structures, and luminescence properties of seven tripodal imidazole-based	52 20 195 77
1902 1901 1900 1899 1898	Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals âlà nanoindentation study. 2014, 5, 2392 pH-Controlled topologies of two Co(II) complexes based on 5-Nitro-1,2,3-benzenetricarboxylic acid and 1,6-Bis(1,2,4-triazole-1-yl)hexane. 2014, 49, 276-282 Structural complexity in metal-organic frameworks: simultaneous modification of open metal sites and hierarchical porosity by systematic doping with defective linkers. 2014, 136, 9627-36 Engineering of Band Gap in MetalâDrganic Frameworks by Functionalizing Organic Linker: A Systematic Density Functional Theory Investigation. 2014, 118, 4567-4577 Synthesis, crystal structures, and luminescence properties of seven tripodal imidazole-based Zn/Cd(II) coordination polymers induced by tricarboxylates. 2014, 16, 4554-4561	52 20 195 77 34

1894	Ionothermal synthesis, crystal structures and magnetic properties of two nickel(II) coordination polymers based on tetrazole-1-acetic acid. 2014 , 46, 207-211	10
1893	Solvent Dependent Formation of Metallogels and Single-Crystal MOFs by La(III) and Ce(III) Connectors and 3,5-Pyridinedicarboxylate. 2014 , 14, 2714-2719	18
1892	Lanthanide-organic coordination frameworks showing new 5-connected network topology and 3D ordered array of single-molecular magnet behavior in the Dy case. 2014 , 53, 6708-14	56
1891	Two-Dimensional Coordination Polymers Comprising Mixed Tripodal Ligands for Selective Colorimetric Detection of Water and Iodine Capture. 2014 , 14, 3300-3308	43
1890	Linker Stoichiometry-Controlled Stepwise Supramolecular Growth of a Flexible Cu2Tb Single Molecule Magnet from Monomer to Dimer to One-Dimensional Chain. 2014 , 14, 2588-2598	58
1889	Metal-organic frameworks with precisely designed interior for carbon dioxide capture in the presence of water. 2014 , 136, 8863-6	317
1888	DRIFT and Theoretical Studies of Ethylene/Ethane Separation on Flexible and Microporous [Cu2(2,3-pyrazinedicarboxylate)2(pyrazine)]n. 2014 , 2014, 2747-2752	20
1887	Influence of ligand environments on the structures and luminescence properties of homoleptic cadmium(II) pyridyl functionalized dithiocarbamates. 2014 , 16, 6765	31
1886	Effect of metal doping, boron substitution and functional groups on hydrogen adsorption of MOF-5: A DFT-D study. 2014 , 1044, 36-43	28
1885	An unprecedented coordination mode of isonicotinate ligand in novel copper(II) polymeric complex: synthesis, spectral, thermal and magnetic properties and their comparison with known molecular analog. 2014 , 46, 118-121	4
1884	Pd nanoparticles supported on MIL-101 as high-performance catalysts for catalytic hydrolysis of ammonia borane. 2014 , 39, 4947-4953	78
1883	Three new europium(III) methanetriacetate metal-organic frameworks: the influence of synthesis on the product topology. 2014 , 70, 19-27	5
1882	Synthesis and characterization of functionalized metal-organic frameworks. 2014 , e52094	3
1881	Research Update: Mechanical properties of metal-organic frameworks âlInfluence of structure and chemical bonding. 2014 , 2, 123902	53
1880	Porous by design. 2014 , 511, 19-19	4
1879	Nanospheres, Nanotubes, Toroids, and Gels with Controlled Macroscopic Chirality. 2014 , 126, 13940-13944	15
1878	Ein Meilenstein in der Strukturaufklfung nanoporßer Festkfiper: Kombination dreier komplementfer Methoden. 2014 , 126, 12214-12215	2
1877	Cu(I) camphor coordination polymers: Synthesis and study of the catalytic activity for cyclization of 4-pentyn-1-oic acid. 2014 , 52, 3316-3323	5

1876	Ein Metall-organisches Netzwerk auf Basis von Cu-Adatom- Trimeren. 2014 , 126, 13169-13173	11
1875	Nanoporous Materials Can Tune the Critical Point of a Pure Substance. 2015 , 54, 14349-52	11
1874	An Ultrahigh Pore Volume Drives Up the Amine Stability and Cyclic CO2 Capacity of a Solid-Amine@Carbon Sorbent. 2015 , 27, 4903-9	67
1873	A Highly Energetic N-Rich Zeolite-Like Metal-Organic Framework with Excellent Air Stability and Insensitivity. 2015 , 2, 1500150	45
1872	Solâtiel for Metal Organic Frameworks (MOFs). 2015 , 471-486	
1871	Glucose recovery from aqueous solutions by adsorption in metal-organic framework MIL-101: a molecular simulation study. 2015 , 5, 12821	10
1870	Synthesis and Applications of Porous Organic Cages. 2015 , 44, 582-588	68
1869	Structural, energetic, and dynamic insights into the abnormal xylene separation behavior of hierarchical porous crystal. 2015 , 5, 11537	24
1868	Metal-organic frameworks as host materials of confined supercooled liquids. 2015 , 143, 154505	14
1867	Preparation of Highly Porous Coordination Polymer Coatings on Macroporous Polymer Monoliths for Enhanced Enrichment of Phosphopeptides. 2015 , e52926	2
1866	Surfactant-Mediated Conformal Overgrowth of Core-Shell Metal-Organic Framework Materials with Mismatched Topologies. 2015 , 11, 5551-5	73
1865	Three Coordination Polymers Constructed with Zinc(II), 3,3?-Thiodipropionic Acid, and Bipyridyl Ligands: Syntheses, Crystal Structures and Luminescent Properties. 2015 , 641, 1575-1580	5
1864	Planar Heterojunction Perovskite Solar Cells Incorporating Metal-Organic Framework Nanocrystals. 2015 , 27, 7229-35	105
1863	Ultrathin 2D Metal-Organic Framework Nanosheets. 2015 , 27, 7372-8	684
1862	Biofuel purification in GME zeoliticâlmidazolate frameworks: From ab initio calculations to molecular simulations. 2015 , 61, 2763-2775	16
1861	â⊞eterogenitEinnerhalb von Ordnungâlın Metall-organischen GerEten. 2015 , 127, 3480-3494	67
1860	Surface-Specific Functionalization of Nanoscale MetalâDrganic Frameworks. 2015 , 127, 14951-14955	21
1859	Utilizing Reversible Interactions in Polymeric Nanoparticles To Generate Hollow Metal-Organic Nanoparticles. 2015 , 54, 12991-5	12

1858	Aerobic Oxidation of Alcohols over Copper-containing Metal-Organic Frameworks. 2015 , 36, 2799-2800	13
1857	Metal-Organic Frameworks as a Versatile Tool To Study and Model Energy Transfer Processes. 2015 , 21, 15474-9	62
1856	Photoinduzierte Erzeugung von Ladungstr\u00e4ern in epitaktischen MOF-D\u00e4nschichten: hohe Leistung aufgrund einer indirekten elektronischen Bandl\u00e4ke?. 2015 , 127, 7549-7553	26
1855	Tetranuclear Uranyl Polyrotaxanes: Preferred Selectivity toward Uranyl Tetramer for Stabilizing a Flexible Polyrotaxane Chain Exhibiting Weakened Supramolecular Inclusion. 2015 , 21, 10226-35	24
1854	A Versatile Al(III) -Based Metal-Organic Framework with High Physicochemical Stability. 2015 , 21, 17215-9	38
1853	Combination of Optimization and Metalated-Ligand Exchange: An Effective Approach to Functionalize UiO-66(Zr) MOFs for CO2 Separation. 2015 , 21, 17246-55	64
1852	Spatial, Hysteretic, and Adaptive Hostâluest Chemistry in a Metalâlurganic Framework with Open Watsonâlirick Sites. 2015 , 127, 10600-10605	14
1851	A Flexible Photoactive Titanium Metalâ©rganic Framework Based on a [TilV3(B-O)(O)2(COO)6] Cluster. 2015 , 127, 14118-14123	17
1850	Superchiral Pd3L6 Coordination Complex and Its Reversible Structural Conversion into Pd3L3Cl6 Metallocycles. 2015 , 127, 15682-15687	9
1849	A protophilic solvent-assisted solvothermal approach to Cu-BTC for enhanced CO2 capture. 2015 , 29, 612-617	9
1848	Titanium Dioxide Reinforced MetalâDrganic Framework Pd Catalysts: Activity and Reusability Enhancement in Alcohol Dehydrogenation Reactions and Improved Photocatalytic Performance. 2015 , 7, 3916-3922	27
1847	Influence of Solvent-Like Sidechains on the Adsorption of Light Hydrocarbons in Metal-Organic Frameworks. 2015 , 21, 18764-9	28
1846	Thermally Stable Coordination Polymer with Hybrid Functional Groups and MnâBO4 Double Chains. 2015 , 641, 673-677	1
1845	Tailoring the Optical Absorption of Water-Stable Zr(IV)- and Hf(IV)-Based Metal-Organic Framework Photocatalysts. 2015 , 10, 2660-8	55
1844	Ligand Symmetry Modulation for Designing a Mesoporous Metal-Organic Framework: Dual Reactivity to Transition and Lanthanide Metals for Enhanced Functionalization. 2015 , 21, 9713-9	53
1843	Probing the Structural Stability of and Enhanced CO2 Storage in MOF MIL-68(In) under High Pressures by FTIR Spectroscopy. 2015 , 21, 18739-48	7
1842	A Series of Lanthanide Metal-Organic Frameworks with Interesting Adjustable Photoluminescence Constructed by Helical Chains. 2015 , 21, 10391-9	31
1841	Well-Defined Metal-Organic-Framework Hollow Nanostructures for Catalytic Reactions Involving Gases. 2015 , 27, 5365-71	139

1840	Biomimetic Replication of Microscopic Metal-Organic Framework Patterns Using Printed Protein Patterns. 2015 , 27, 7293-8	85
1839	In Situ Modification of Metalâ©rganic Frameworks in Mixed-Matrix Membranes. 2015 , 127, 9157-9160	56
1838	In Situ Modification of Metal-Organic Frameworks in Mixed-Matrix Membranes. 2015 , 54, 9029-32	306
1837	A Flexible Photoactive Titanium Metal-Organic Framework Based on a [Ti(IV)3(B-O)(O)2(COO)6] Cluster. 2015 , 54, 13912-7	82
1836	Surface-Specific Functionalization of Nanoscale Metal-Organic Frameworks. 2015 , 54, 14738-42	113
1835	Functionalization of Metal-Organic Frameworks for Enhanced Stability under Humid Carbon Dioxide Capture Conditions. 2015 , 8, 3405-9	28
1834	Design and Synthesis of an Au@MIL-53(NH2) Catalyst for a One-Pot Aerobic Oxidation/Knoevenagel Condensation Reaction. 2015 , 2015, 5099-5105	27
1833	Metalâ®rganic Frameworks: New Interlayer Dielectric Materials. 2015 , 2, 786-788	51
1832	A Series of Multifunctional Metal-Organic Frameworks Showing Excellent Luminescent Sensing, Sensitization, and Adsorbent Abilities. 2015 , 21, 11475-82	210
1831	Engineering Homochiral Metal-Organic Frameworks by Spatially Separating 1D Chiral Metal-Peptide Ladders: Tuning the Pore Size for Enantioselective Adsorption. 2015 , 21, 9964-9	19
1830	Rational Design and Synthesis of a Highly Porous Copper-Based Interpenetrated Metal-Organic Framework for High CO and H Adsorption. 2015 , 80, 1259-1266	7
1829	Synthesis and Catalytic Performance of Hierarchically Porous MIL-100(Fe)@polyHIPE Hybrid Membranes. 2015 , 36, 1605-11	44
1828	Well-Dispersed and Size-Controlled Supported Metal Oxide Nanoparticles Derived from MOF Composites and Further Application in Catalysis. 2015 , 11, 3130-4	58
1827	Three Cadmium(II) Coordination Polymers based on Mixed 1,2-Naphthalenedicarboxylate and Bis(pyridyl) Co-ligands: Structural Diversities and Photoluminescent Properties. 2015 , 641, 876-882	1
1826	General Method for the Synthesis of Salicylic Acids from Phenols through Palladium-Catalyzed Silanol-Directed C?H Carboxylation. 2015 , 127, 2283-2287	11
1825	Utilizing Reversible Interactions in Polymeric Nanoparticles To Generate Hollow Metalâ©rganic Nanoparticles. 2015 , 127, 13183-13187	12
1824	A Bio-inspired Approach for Chromophore Communication: Ligand-to-Ligand and Host-to-Guest Energy Transfer in Hybrid Crystalline Scaffolds. 2015 , 127, 13843-13847	9
1823	Superchiral Pd3 L6 Coordination Complex and Its Reversible Structural Conversion into Pd3 L3 Cl6 Metallocycles. 2015 , 54, 15462-7	36

1822	Energy Transfer in Hybrid Crystalline Scaffolds. 2015 , 54, 13639-43	49
1821	Materials science: The hole story. 2015 , 520, 148-50	76
1820	Liquid- and Gas-Phase Diffusion of Ferrocene in Thin Films of Metal-Organic Frameworks. 2015 , 8, 3767-3775	30
1819	Mechanical Properties of Nanoporous Au: From Empirical Evidence to Phenomenological Modeling. 2015 , 5, 1665-1694	9
1818	Application of MD Simulations to Predict Membrane Properties of MOFs. 2015 , 2015, 1-9	19
1817	An ultrastable porous metalâBrganic framework luminescent switch towards aromatic compounds. 2015 , 2, 245-251	87
1816	In silico prediction of MOFs with high deliverable capacity or internal surface area. 2015 , 17, 11962-73	25
1815	The effect of the aliphatic carboxylate linkers on the electronic structures, chemical bonding and optical properties of the uranium-based metalâBrganic frameworks. 2015 , 5, 26735-26748	8
1814	Influence of water on supra-molecular assembly of 4, 4'-dihydroxy azobenzene on Ag(111). 2015 , 142, 101920	7
1813	Thinking Outside the Cage: Controlling the Extrinsic Porosity and Gas Uptake Properties of Shape-Persistent Molecular Cages in Nanoporous Polymers. 2015 , 27, 4149-4155	48
1812	Systematic syntheses and metalloligand doping of flexible porous coordination polymers composed of a Co(III)-metalloligand. 2015 , 54, 2522-35	14
1811	Porous molybdenum carbide nano-octahedrons synthesized via confined carburization in metal-organic frameworks for efficient hydrogen production. 2015 , 6, 6512	1056
1810	Biomimetic mineralization of metal-organic frameworks as protective coatings for biomacromolecules. 2015 , 6, 7240	747
1809	Microporous metal-organic framework with dual functionalities for highly efficient removal of acetylene from ethylene/acetylene mixtures. 2015 , 6, 7328	326
1808	Isoreticular isomerism in 4,4-connected paddle-wheel metalâBrganic frameworks: structural prediction by the reverse topological approach. 2015 , 17, 344-352	23
1807	Metal-Organic Frameworks as Platforms for Hydrogen Generation from Chemical Hydrides. 2015 , 421-467	
1806	High efficiency adsorption and removal of selenate and selenite from water using metal-organic frameworks. 2015 , 137, 7488-94	265
1805	Metal-organic frameworks derived CoxFe1-xP nanocubes for electrochemical hydrogen evolution. 2015 , 7, 11055-62	175

1804	Metal organic frameworks from extended, conjugated pentiptycene-based ligands. 2015 , 17, 4912-4918	13
1803	One-dimensional water cages with repeat units of (H2O)24 resembling pagodane trapped in a 3D coordination polymer: proton conduction and tunable luminescence emission by adsorption of anionic dyes. 2015 , 17, 4439-4443	29
1802	Synthesis of nanocrystals of Zr-based metal-organic frameworks with csq-net: significant enhancement in the degradation of a nerve agent simulant. 2015 , 51, 10925-8	155
1801	Metal-organic framework nodes as nearly ideal supports for molecular catalysts: NU-1000- and UiO-66-supported iridium complexes. 2015 , 137, 7391-6	192
1800	Electrosynthesis of MetalâDrganic Frameworks: Challenges and Opportunities. 2015, 2, 462-474	142
1799	Zeolitic imidazolate framework membranes for gas separation: A review of synthesis methods and gas separation performance. 2015 , 28, 1-15	102
1798	Transparent films of metal-organic frameworks for optical applications. 2015 , 211, 82-87	84
1797	Pressure-induced structural phase transformation in cobalt(II) dicyanamide. 2015 , 71, 252-7	11
1796	Highly Water-Stable Zirconium Metal-Organic Framework UiO-66 Membranes Supported on Alumina Hollow Fibers for Desalination. 2015 , 137, 6999-7002	446
1795	Remarkable improvement in adsorptive denitrogenation of model fossil fuels with CuCl/activated carbon, prepared under ambient condition. 2015 , 279, 327-334	48
1794	Crosslinking of the Pd(acacCN)2 building unit with Ag(I) salts: dynamic 1D polymers and an extended 3D network. 2015 , 17, 4383-4393	20
1793	Structure-Property of Metal Organic Frameworks Calcium Terephthalates Anodes for Lithium-ion Batteries. 2015 , 173, 235-241	45
1792	Sonochemical synthesis of a nano-structured zinc(II) amidic pillar metal-organic framework. 2015 , 27, 416-422	30
1791	Porous materials. Function-led design of new porous materials. <i>Science</i> , 2015 , 348, aaa8075	973
1790	A 2D metalâBrganic framework composed of a bi-functional ligand with ultra-micropores for post-combustion CO2 capture. 2015 , 5, 47384-47389	9
1789	A DFT/TDDFT mission to probe pushā̄pull vinyl coupled thiophene oligomers for optoelectronic applications. 2015 , 5, 50353-50364	13
1788	A urea decorated (3,24)-connected rht-type metalâBrganic framework exhibiting high gas uptake capability and catalytic activity. 2015 , 17, 4632-4636	30
1787	Pt@ZIF-8 composite for the regioselective hydrogenation of terminal unsaturations in 1,3-dienes and alkynes. 2015 , 2, 448-452	31

1786	Multifunctional Supramolecular Hybrid Materials Constructed from Hierarchical Self-Ordering of In Situ Generated Metal-Organic Framework (MOF) Nanoparticles. 2015 , 27, 4438-4446	83
1785	Nanoporous Materials Can Tune the Critical Point of a Pure Substance. 2015 , 127, 14557-14560	5
1784	Update 1 of: Destruction and Detection of Chemical Warfare Agents. 2015, 115, PR1-76	228
1783	Single-Site Organozirconium Catalyst Embedded in a Metal-Organic Framework. 2015 , 137, 15680-3	90
1782	Diverse Rotational Flexibility of Substituted Dicarboxylate Ligands in Functional Porous Coordination Polymers. 2015 , 119, 28789-28799	26
1781	Metal-Organic Framework Thin Films as Platforms for Atomic Layer Deposition of Cobalt Ions To Enable Electrocatalytic Water Oxidation. 2015 , 7, 28223-30	126
1780	Remarkable Lattice Shrinkage in Highly Oriented Crystalline Three-Dimensional Metal-Organic Framework Thin Films. 2015 , 54, 11593-5	26
1779	Novel azo-Metal-Organic Framework Showing a 10-Connected bct Net, Breathing Behavior, and Unique Photoswitching Behavior toward CO2. 2015 , 54, 11587-9	55
1778	Coâta Phosphonate Showing Humidity-Sensitive Single Crystal to Single Crystal Structural Transformation and Tunable Proton Conduction Properties. 2015 , 27, 8116-8125	117
1777	Liquid-Phase Adsorption of Aromatics over a MetalâDrganic Framework and Activated Carbon: Effects of Hydrophobicity/Hydrophilicity of Adsorbents and Solvent Polarity. 2015 , 119, 26620-26627	67
1776	Electronic Conductivity, Ferrimagnetic Ordering, and Reductive Insertion Mediated by Organic Mixed-Valence in a Ferric Semiquinoid Metal-Organic Framework. 2015 , 137, 15703-11	252
1775	Crystal Engineering of Coordination Networks Using Multi-interactive Ligands. 2015 , 223-240	1
1774	A low-temperature sintered heterostructure solid film of coordination polymer nanoparticles: an electron-rectifier function based on partially oxidised/reduced conductor phases of Prussian blue. 2015 , 5, 96297-96304	10
1773	Ionic liquid-assisted formation of lanthanide metal-organic framework nano/microrods for superefficient removal of Congo red. 2015 , 31, 899-903	12
1772	A single-ligand ultra-microporous MOF for precombustion CO2 capture and hydrogen purification. 2015 , 1, e1500421	97
1771	Fabrication of Cu-BTC metal organic frameworks on PVDF hollow fiber membrane for gas separation via multiple reactions. 2015 , 16, 2130-2134	2
1770	Structural studies of metal-organic frameworks under high pressure. 2015 , 71, 587-607	68
1769	Study of selective adsorption of aromatic compounds from solutions by the flexible MIL-53(Al) metal-organic framework. 2015 , 64, 1039-1048	19

1768	Crystal structure and fluorescence of a 1D zinc(II) coordination polymer based on a semi-rigid bis(benzimidazole) ligand. 2015 , 56, 1572-1576	2
1767	A phytochemical-containing metalâBrganic framework: Synthesis, characterization and molecular simulations for hydrogen adsorption. 2015 , 427, 138-143	19
1766	Easy Access to Amides through Aldehydic Câ⊞ Bond Functionalization Catalyzed by Heterogeneous Co-Based Catalysts. 2015 , 5, 884-891	87
1765	4-(4-carboxyphenoxy)phthalate-based coordination polymers and their application in sensing nitrobenzene. 2015 , 44, 1655-63	42
1764	Silver-tetrapyridyl coordination polymers: $[Ag2(L)](NO3)2(H2O)2$, $[Ag(L)](PF6)$, and $[Ag2I2L](CH2Cl2)$ {L = 1,1,2,2-tetrakis(4-(pyridin-3-yl)phenyl)ethene}. 2015 , 87, 338-348	6
1763	Controlled synthesis of tunable nanoporous carbons for gas storage and supercapacitor application. 2015 , 206, 127-135	19
1762	A new class of cuprous bromide cluster-based hybrid materials: direct observation of the stepwise replacement of hydrogen bonds by coordination bonds. 2015 , 54, 554-9	16
1761	Polydopamine-based immobilization of zeolitic imidazolate framework-8 for in-tube solid-phase microextraction. 2015 , 1388, 9-16	72
1760	Introduction of functionality, selection of topology, and enhancement of gas adsorption in multivariate metal-organic framework-177. 2015 , 137, 2641-50	285
1759	Proton conduction and long-range ferrimagnetic ordering in two isostructural Copper(II) mesoxalate metal-organic frameworks. 2015 , 54, 1597-605	42
1758	Understanding DABCO Nanorotor Dynamics in Isostructural Metal-Organic Frameworks. 2015 , 6, 812-6	30
1757	Adsorptive removal of methylchlorophenoxypropionic acid from water with a metal-organic framework. 2015 , 270, 22-27	131
1756	Synthesis, Structure, and Electron Paramagnetic Resonance Study of a Mixed Valent MetalâDrganic Framework Containing Cu2 Paddle-Wheel Units. 2015 , 119, 4898-4907	25
1755	Investigation of prototypal MOFs consisting of polyhedral cages with accessible Lewis-acid sites for quinoline synthesis. 2015 , 51, 4827-9	26
1754	Preparation and Gas Separation Properties of Metal-Organic Framework Membranes. 2015, 641, 792-796	12
1753	Towards multicomponent MOFs via solvent-free synthesis under conventional oven and microwave assisted heating. 2015 , 2, 425-433	10
1752	In situ growth of MOFs on the surface of si nanoparticles for highly efficient lithium storage: Si@MOF nanocomposites as anode materials for lithium-ion batteries. 2015 , 7, 2178-82	96
1751	Hysteretic Gas and Vapor Sorption in Flexible Interpenetrated Lanthanide-Based MetalâDrganic Frameworks with Coordinated Molecular Gating via Reversible Single-Crystal-to-Single-Crystal Transformation for Enhanced Selectivity. 2015 , 27, 1502-1516	66

1750	Polar group and defect engineering in a metal-organic framework: synergistic promotion of carbon dioxide sorption and conversion. 2015 , 8, 878-85	162
1749	Mechanically and chemically robust ZIF-8 monoliths with high volumetric adsorption capacity. 2015 , 3, 2999-3005	71
1748	Evaluation of the physi- and chemisorption of hydrogen in alkali (Na, Li) doped fullerenes. 2015 , 40, 2710-271	6 27
1747	Halogen Bonded Three-Dimensional UranylâDrganic Compounds with Unprecedented Halogenâ⊞alogen Interactions and Structure Diversity upon Variation of Halogen Substitution. 2015 , 15, 1395-1406	31
1746	Base-Free Oxidation of Alcohols to Esters at Room Temperature and Atmospheric Conditions using Nanoscale Co-Based Catalysts. 2015 , 5, 1850-1856	247
1745	Synthesis and energy applications of metal organic frameworks. 2015 , 22, 413-424	16
1744	Electrochemical Film Deposition of the Zirconium MetalâDrganic Framework UiO-66 and Application in a Miniaturized Sorbent Trap. 2015 , 27, 1801-1807	128
1743	Raman Detected Sensing of Volatile Organic Compounds by Vapochromic Cu[AuX2(CN)2]2 (X = Cl, Br) Coordination Polymer Materials. 2015 , 27, 1465-1478	34
1742	In situ synthesis of metal-organic frameworks in a porous polymer monolith as the stationary phase for capillary liquid chromatography. 2015 , 140, 2755-61	34
1741	Helically structured metal-organic frameworks fabricated by using supramolecular assemblies as templates. 2015 , 6, 1910-1916	29
1740	Functionalized defects through solvent-assisted linker exchange: synthesis, characterization, and partial postsynthesis elaboration of a metal-organic framework containing free carboxylic acid moieties. 2015 , 54, 1785-90	46
1739	Submicrometer-Sized ZIF-71 Filled Organophilic Membranes for Improved Bioethanol Recovery: Mechanistic Insights by Monte Carlo Simulation and FTIR Spectroscopy. 2015 , 25, 516-525	78
1738	Cation-dependent intrinsic electrical conductivity in isostructural tetrathiafulvalene-based microporous metal-organic frameworks. 2015 , 137, 1774-7	282
1737	Immobilization of Ag(i) into a metal-organic framework with -SO3H sites for highly selective olefin-paraffin separation at room temperature. 2015 , 51, 2859-62	136
1736	A flexible ligand-based wavy layered metal-organic framework for lithium-ion storage. 2015 , 445, 320-325	83
1735	Compression-induced deformation of individual metal-organic framework microcrystals. 2015 , 137, 1750-3	53
1734	Experimental Study of Adsorptive Interactions of Polar and Nonpolar Adsorbates in the Zeolitic Imidazolate Framework ZIF-68 via Pulse Gas Chromatography. 2015 , 119, 1832-1839	7
1733	Room temperature synthesis of ZIF-8 membranes from seeds anchored in gelatin films for gas separation. 2015 , 17, 1576-1582	15

1732	Well-defined two dimensional covalent organic polymers: rational design, controlled syntheses, and potential applications. 2015 , 6, 1896-1911	162
1731	The copper(I) metal azolate framework showing unusual coordination mode for the 1,2,4-triazole derivative and photocatalytic activity. 2015 , 44, 3954-8	11
1730	Pore space partition by symmetry-matching regulated ligand insertion and dramatic tuning on carbon dioxide uptake. 2015 , 137, 1396-9	227
1729	From cage-in-cage MOF to N-doped and Co-nanoparticle-embedded carbon for oxygen reduction reaction. 2015 , 44, 6748-54	75
1728	Open metal sites dangled on cobalt trigonal prismatic clusters within porous MOF for CO2 capture. 2015 , 2, 369-372	17
1727	Adsorptive removal of p-arsanilic acid from water using mesoporous zeolitic imidazolate framework-8. 2015 , 267, 9-15	137
1726	Coordination polymers: Opportunities and challenges for monitoring volatile organic compounds. 2015 , 45, 102-118	68
1725	Phase Formation Study of Ca-Terephthalate MOF-Type Materials. 2015 , 15, 617-624	10
1724	Encapsulation of Mono- or Bimetal Nanoparticles Inside Metal-Organic Frameworks via In situ Incorporation of Metal Precursors. 2015 , 11, 2642-8	73
1723	H2S interaction with HKUST-1 and ZIF-8 MOFs: A multitechnique study. 2015 , 207, 90-94	68
1722	In situ spectroscopy studies of CO2 adsorption in a dually functionalized microporous metalâBrganic framework. 2015 , 3, 4945-4953	38
1721	Toward understanding the structureâdatalyst activity relationship of new indium MOFs as catalysts for solvent-free ketone cyanosilylation. 2015 , 5, 7058-7065	27
1720	A Rod-Packing Microporous Hydrogen-Bonded Organic Framework for Highly Selective Separation of C2H2/CO2 at Room Temperature. 2015 , 127, 584-587	92
1719	A Combined Experimental and Computational Study on the Stability of Nanofluids Containing Metal Organic Frameworks. 2015 , 119, 8992-9	23
1718	Pyrazine-2,3-Carboxylate Based Ag+ Homometallic and Ln3+âAg+ Heterometallic Coordination Frameworks: Synthesis, Structures, and Magnetic Properties. 2015 , 15, 1249-1258	18
1717	One-step growth of isoreticular luminescent metalâBrganic frameworks on cotton fibers. 2015 , 5, 15198-1520	0436
1716	Review: Bismuth complexes: synthesis and applications in biomedicine. 2015 , 68, 379-397	81
1715	Spectroscopic and crystallographic investigations of novel BODIPY-derived metal-organic frameworks. 2015 , 54, 1346-53	39

1714	A polyoxometalate based 3D framework with helix and multinuclear Ag-pyttz cycles. 2015 , 40, 77-83	11
1713	Growth of metal-organic framework HKUST-1 in capillary using liquid-phase epitaxy for open-tubular capillary electrochromatography and capillary liquid chromatography. 2015 , 1381, 239-46	63
1712	Turning on catalysis: incorporation of a hydrogen-bond-donating squaramide moiety into a Zr metal-organic framework. 2015 , 137, 919-25	159
1711	Diverse structures of metal-organic frameworks based on different metal ions: luminescence and gas adsorption properties. 2015 , 44, 4238-45	20
1710	Reprint of: Transient breakthroughs of CO 2 /CH 4 and C 3 H 6 /C 3 H 8 mixtures in fixed beds packed with Ni-MOF-74. 2015 , 124, 109-117	24
1709	A microporous metal-organic framework with rare lvt topology for highly selective C2H2/C2H4 separation at room temperature. 2015 , 51, 5610-3	54
1708	"Heterogeneity within order" in metal-organic frameworks. 2015 , 54, 3417-30	390
1707	Small-Molecule Adsorption in Open-Site MetalâDrganic Frameworks: A Systematic Density Functional Theory Study for Rational Design. 2015 , 27, 668-678	198
1706	Cage-like pores of a metalâBrganic framework for separations and encapsulation of Pd nanoparticles for efficient catalysis. 2015 , 39, 2669-2674	12
1705	Three coordination polymers constructed from bis(imidazol-l-yl-methyl)benzene: syntheses, structures, and third-order nonlinear optical properties. 2015 , 40, 11-19	12
1704	Facile synthesis of magnetic homochiral metal-organic frameworks for "enantioselective fishing". 2015 , 51, 3566-9	42
1703	Tunable coordinative defects in UHM-3 surface-mounted MOFs for gas adsorption and separation: A combined experimental and theoretical study. 2015 , 207, 53-60	30
1702	Conformal and highly adsorptive metalâBrganic framework thin films via layer-by-layer growth on ALD-coated fiber mats. 2015 , 3, 1458-1464	72
1701	Stable metal-organic frameworks containing single-molecule traps for enzyme encapsulation. 2015 , 6, 5979	422
1700	General method for the synthesis of salicylic acids from phenols through palladium-catalyzed silanol-directed C-H carboxylation. 2015 , 54, 2255-9	41
1699	Hydrogen storage in bulk graphene-related materials. 2015 , 210, 46-51	80
1698	Sequential linker installation: precise placement of functional groups in multivariate metal-organic frameworks. 2015 , 137, 3177-80	249
1697	Separation of polar compounds using a flexible metal-organic framework. 2015 , 51, 8421-4	32

1696	ZnâBeâØIF-derived porous ZnFe2O4/C@NCNT nanocomposites as anodes for lithium-ion batteries. 2015 , 3, 7793-7798	76
1695	Tuning fluorocarbon adsorption in new isoreticular porous coordination frameworks for heat transformation applications. 2015 , 6, 2516-2521	44
1694	A Microporous Porphyrin-Based Hydrogen-Bonded Organic Framework for Gas Separation. 2015 , 15, 2000-2004	80
1693	Au@UiO-66: a base free oxidation catalyst. 2015 , 5, 22334-22342	49
1692	Synthesis and characterization of two cobalt(II) coordination polymers based on 5-tert-butyl isophthalic acid and bis(benzimidazole) ligands. 2015 , 40, 333-340	9
1691	Ultrahigh surface area zirconium MOFs and insights into the applicability of the BET theory. 2015 , 137, 3585-91	249
1690	Remote Stabilization of Copper Paddlewheel Based Molecular Building Blocks in Metalâ©rganic Frameworks. 2015 , 27, 2144-2151	64
1689	Aqueous phase selective detection of 2,4,6-trinitrophenol using a fluorescent metal-organic framework with a pendant recognition site. 2015 , 44, 15175-80	134
1688	Micromechanical Behavior of Polycrystalline MetalâDrganic Framework Thin Films Synthesized by Electrochemical Reaction. 2015 , 15, 1991-1999	19
1687	Coordination assemblies of seven metal-organic frameworks based on a bent connector: structural diversity and properties. 2015 , 17, 3129-3138	21
1686	Destruction of chemical warfare agents using metal-organic frameworks. 2015 , 14, 512-6	647
1685	Syntheses, Structures and Third-Order Nonlinear Optical Properties of Two-Dimensional Rhombohedral Grid Coordination Polymers: [Cd(imz)3]2(BTC)[D.5H2O and [Cu4(H2O)2(imz)8](BTC)2[7H2O(BTC = 1, 2, 4, 5-benzenetetracarboxylate anion, imz = imidazole).	12
1684	Supramolecular imidazolium frameworks: direct analogues of metal azolate frameworks with charge-inverted node-and-linker structure. 2015 , 51, 8924-7	15
1683	The impact of the particle size of a metalâBrganic framework for sulfur storage in LiâB batteries. 2015 , 3, 8272-8275	98
1682	Gas storage and separation in a water-stable [Cu(I)5BTT3](4-) anion framework comprising a giant multi-prismatic nanoscale cage. 2015 , 51, 5691-4	30
1681	Materials chemistry: cooperative carbon capture. 2015 , 519, 294-5	45
1680	Cooperative insertion of CO2 in diamine-appended metal-organic frameworks. 2015 , 519, 303-8	807
1679	Porphyrin-based metalâðrganic framework thin films for electrochemical nitrite detection. 2015 , 58, 51-56	138

1678	Small-Size Au-Pd Nanoparticles for Catalysis. 2015 , 54, 6069-71	14
1677	Ag2CO3/UiO-66(Zr) composite with enhanced visible-light promoted photocatalytic activity for dye degradation. 2015 , 299, 132-40	107
1676	Hybrid metal-organic framework nanomaterials with enhanced carbon dioxide and methane adsorption enthalpy by incorporation of carbon nanotubes. 2015 , 58, 79-83	32
1675	A new supramolecular Cd(II) complex with unusual solid-state properties constructed from rigid coligand. 2015 , 41, 312-315	
1674	A Flexible Microporous Hydrogen-Bonded Organic Framework for Gas Sorption and Separation. 2015 , 137, 9963-70	254
1673	DFT-Derived Force Fields for Modeling Hydrocarbon Adsorption in MIL-47(V). 2015 , 31, 8453-68	27
1672	Dynamic imine chemistry in metalâBrganic polyhedra. 2015 , 5, 67011-67030	25
1671	Organometallic synthesis, reactivity and catalysis in the solid state using well-defined single-site species. 2015 , 373,	40
1670	Optical fibre long period grating gas sensor modified with metal organic framework thin films. 2015 , 221, 891-899	51
1669	The role of density functional theory methods in the prediction of nanostructured gas-adsorbent materials. 2015 , 300, 142-163	32
1668	Insights into chromatographic separation using core-shell metal-organic frameworks: Size exclusion and polarity effects. 2015 , 1411, 77-83	17
1667	Cu-PDC-bpa solid coordination frameworks (PDC=2,5-pyrindinedicarboxylate; bpa=1,2-DI(4-pyridil)ethane)): 2D and 3D structural flexibility producing a 3-c herringbone array next to ideal. 2015 , 230, 191-198	4
1666	Tuning the growth of metal-organic framework nanocrystals by using polyoxometalates as coordination modulators. 2015 , 58, 370-377	56
1665	Metal-controlled structural variations of coordination architectures constructed from flexible 1H-benzimidazole-1-propionic acid. 2015 , 17, 6724-6735	12
1664	Porphyrins as nanoreactors in the carbon dioxide capture and conversion: a review. 2015 , 3, 19615-19637	116
1663	Surface-Confined Amorphous Films from Metal-Coordinated Simple Phenolic Ligands. 2015 , 27, 5825-5832	141
1662	Ligands effect on the structures of A series of coordination polymers: Syntheses, structures, luminescence and magnetism. 2015 , 427, 285-292	13
1661	In SituMeasurement of CO2and H2O Adsorption by ZIF-8 Films. 2015 , 119, 15248-15253	25

1660	Converting 3D rigid metal-organic frameworks (MOFs) to 2D flexible networks via ligand exchange for enhanced CO2/N2 and CH4/N2 separation. 2015 , 51, 14716-9	38
1659	Solvent modulated assembly of two Zn metalâBrganic frameworks: syntheses, luminescence, and gas adsorption properties. 2015 , 17, 6591-6597	12
1658	A series of entangled coordination polymers assembled by a V-shaped bisimidazole ligand and various dicarboxylic acids: synthesis, characterization and luminescence properties. 2015 , 17, 6512-6526	18
1657	Porphyrin-Metalation-Mediated Tuning of Photoredox Catalytic Properties in MetalâΦrganic Frameworks. 2015 , 5, 5283-5291	161
1656	Fast and long-range triplet exciton diffusion in metal-organic frameworks for photon upconversion at ultralow excitation power. 2015 , 14, 924-30	94
1655	The pH-controlled synthesis of three zinc-based complexes modeled by 5-carboxyl-1-carboxymethyl-2-oxidopyridinium with luminescence studies. 2015 , 199, 413-419	3
1654	Automatic In-Syringe Dispersive Microsolid Phase Extraction Using Magnetic Metal-Organic Frameworks. 2015 , 87, 7545-9	61
1653	Porous metalâBrganic frameworks with Lewis basic nitrogen sites for high-capacity methane storage. 2015 , 8, 2504-2511	107
1652	A porous metal-organic framework with ultrahigh acetylene uptake capacity under ambient conditions. 2015 , 6, 7575	229
1651	Mixing of immiscible polymers using nanoporous coordination templates. 2015 , 6, 7473	50
1650	Tuning the structures of three coordination polymers incorporating ZnII and 2,2?-dichloro-4,4?-azodibenzoic acid via selective auxiliary ligands. 2015 , 1099, 441-445	3
1649	Water-induced phase transformation of a Cull coordination framework with pyridine-2,5-dicarboxylate and di-2-pyridyl ketone: synchrotron radiation analysis. 2015 , 17, 6346-6354	6
1648	Precisely tailoring ZIF-67 nanostructures from cobalt carbonate hydroxide nanowire arrays: toward high-performance battery-type electrodes. 2015 , 3, 16688-16694	58
1647	Multifunctional metal-organic frameworks: from academia to industrial applications. 2015 , 44, 6774-803	618
1646	Water-mediated promotion of direct oxidation of benzene over the metalâBrganic framework HKUST-1. 2015 , 5, 56020-56027	13
1645	Gasâllquid segmented flow microwave-assisted synthesis of MOF-74(Ni) under moderate pressures. 2015 , 17, 5502-5510	45
1644	One-step encapsulation of Pd nanoparticles in MOFs via a temperature control program. 2015 , 3, 15259-1526	465
1643	Thermodynamics of Methane Adsorption on Copper HKUST-1 at Low Pressure. 2015 , 6, 2439-43	17

1642	fuels. 2015 , 51, 12205-7	47
1641	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
1640	Progress in the synthetic and functional aspects of chiral metalâBrganic frameworks. 2015 , 17, 5341-5356	49
1639	Homo- and heterometallic coordination networks based on linear trinuclear Co(II) units: syntheses, structures and magnetic properties. 2015 , 5, 23374-23382	6
1638	Partial Charges in Periodic Systems: Improving Electrostatic Potential (ESP) Fitting via Total Dipole Fluctuations and Multiframe Approaches. 2015 , 11, 3829-43	17
1637	Synthesis of an exceptional water-stable two-fold interpenetrated Zn(II)-paddlewheel metalâBrganic framework. 2015 , 17, 5906-5910	12
1636	Structural Features in MetalâDrganic Nanotube Crystals That Influence Stability and Solvent Uptake. 2015 , 15, 4062-4070	21
1635	Facile synthesis of multiple enzyme-containing metal-organic frameworks in a biomolecule-friendly environment. 2015 , 51, 13408-11	375
1634	Bismuth coordination networks containing deferiprone: synthesis, characterisation, stability and antibacterial activity. 2015 , 44, 13814-7	13
1633	Selective Solvent-Assisted Linker Exchange (SALE) in a Series of Zeolitic Imidazolate Frameworks. 2015 , 54, 7142-4	40
1632	Mechanically Interlocked Linkers inside Metal-Organic Frameworks: Effect of Ring Size on Rotational Dynamics. 2015 , 137, 9643-51	81
1631	Single-Crystal to Single-Crystal Mechanical Contraction of Metal-Organic Frameworks through Stereoselective Postsynthetic Bromination. 2015 , 137, 9527-30	98
1630	Fabrication of zeolitic imidazolate framework-8-methacrylate monolith composite capillary columns for fast gas chromatographic separation of small molecules. 2015 , 1406, 299-306	20
1629	Amorphous metal-organic frameworks for drug delivery. 2015 , 51, 13878-81	247
1628	Facile synthesis of morphology and size-controlled zirconium metalâBrganic framework UiO-66: the role of hydrofluoric acid in crystallization. 2015 , 17, 6434-6440	128
1627	Porous frameworks constructed by non-covalent linking of substitution-inert metal complexes. 2015 , 44, 15334-42	12
1626	A unique 3D metal-organic framework based on a 12-connected pentanuclear Cd(II) cluster exhibiting proton conduction. 2015 , 44, 14741-6	24
1625	From [email´protected]2O3 Composites to Self-Supported ZIF-8 One-Dimensional Superstructures. 2015 , 15, 3552-3555	19

1624	A Chemical Route to Activation of Open Metal Sites in the Copper-Based Metal-Organic Framework Materials HKUST-1 and Cu-MOF-2. 2015 , 137, 10009-15	145
1623	Towards multifunctional lanthanide-based metal-organic frameworks. 2015 , 51, 13313-6	34
1622	Reversible Lithium Storage in Manganese 1,3,5-Benzenetricarboxylate Metal-Organic Framework with High Capacity and Rate Performance. 2015 , 7, 16357-63	220
1621	A three-dimensional CdII coordination polymer constructed from 1,1'-biphenyl-2,2',5,5'-tetracarboxylate and 1,4-bis(1H-imidazol-1-yl)benzene ligands. 2015 , 71, 534-8	3
1620	Series of Highly Stable Isoreticular Lanthanide MetalâDrganic Frameworks with Expanding Pore Size and Tunable Luminescent Properties. 2015 , 27, 5332-5339	112
1619	Transformation of rigid metalâðrganic frameworks into flexible gel networks and vice versa. 2015 , 17, 7978-7985	10
1618	Synthesis of manganese coordination polymer microspheres for lithium-ion batteries with good cycling performance. 2015 , 174, 1088-1095	17
1617	High surface area and Z' in a thermally stable 8-fold polycatenated hydrogen-bonded framework. 2015 , 51, 11642-5	81
1616	Ab Initio Derived Force Fields for Predicting CO2 Adsorption and Accessibility of Metal Sites in the MetalâDrganic Frameworks M-MOF-74 (M = Mn, Co, Ni, Cu). 2015 , 119, 16058-16071	67
1615	Fundamentals of MOF Thin Film Growth via Liquid-Phase Epitaxy: Investigating the Initiation of Deposition and the Influence of Temperature. 2015 , 31, 6114-21	41
1614	Investigating Hâlsorption in a Fluorinated Metal-Organic Framework with Small Pores Through Molecular Simulation and Inelastic Neutron Scattering. 2015 , 31, 7328-36	23
1613	Construction of porous cationic frameworks by crosslinking polyhedral oligomeric silsesquioxane units with N-heterocyclic linkers. 2015 , 5, 11236	58
1612	Tuning the cavities of zirconium-based MIL-140 frameworks to modulate CO2 adsorption. 2015 , 51, 11286-9	41
1611	Brßsted acidity in metal-organic frameworks. 2015 , 115, 6966-97	390
1610	Synthesis, crystal structure and gas uptake properties of a urea-functionalized rht-type metalâBrganic framework. 2015 , 99, 1-6	17
1609	Cerium-based metal organic frameworks with UiO-66 architecture: synthesis, properties and redox catalytic activity. 2015 , 51, 12578-81	249
1608	MOF derived composites for cathode protection: coatings of LiCoO2 from UiO-66 and MIL-53 as ultra-stable cathodes. 2015 , 51, 12391-4	19
1607	Simulation of metal-organic framework self-assembly. 2015 , 17, 8649-52	20

1606	A (3,8)-connected metalâBrganic framework with a unique binuclear [Ni2(2-OH)(COO)2] node for high H2 and CO2 adsorption capacities. 2015 , 3, 15399-15402	26
1605	Novel Two- and Three-Dimensional Organometallic-Organic Hybrid Materials Based on Polyphosphorus Complexes. 2015 , 54, 7021-9	30
1604	Hollow cobalt coordination polymer microspheres: A promising anode material for lithium-ion batteries with high performance. 2015 , 281, 453-458	37
1603	Insights into the Molecular Assembly of Zeolitic Imidazolate Frameworks by ESI-MS. 2015 , 27, 3088-3095	48
1602	Exploring the System Lanthanide/Succinate in the Formation of Porous MetalâDrganic Frameworks: Experimental and Theoretical Study. 2015 , 15, 3015-3023	12
1601	Zinc(II)âland cadmium(II)âbrganic frameworks with 1-imidazole-containing and 1-imidazole-carboxylate ligands. 2015 , 17, 4045-4063	62
1600	A designable magnetic MOF composite and facile coordination-based post-synthetic strategy for the enhanced removal of Hg2+ from water. 2015 , 3, 11587-11595	137
1599	Heterogeneous Fe-MIL-101 catalysts for efficient one-pot four-component coupling synthesis of highly substituted pyrroles. 2015 , 39, 4919-4923	52
1598	Two magnetic lanthanideâBrganic frameworks based on semi-rigid tripodal multicarboxylate ligand and different rod-shaped SBUs. 2015 , 56, 48-52	5
1597	A Modulated Hydrothermal (MHT) Approach for the Facile Synthesis of UiO-66-Type MOFs. 2015 , 54, 4862-8	232
1596	Fast, sensitive, and selective ion-triggered disassembly and release based on tris(bipyridine)ruthenium(II)-functionalized metal-organic frameworks. 2015 , 87, 4864-70	64
1595	Co/Ni mixed-metal sited MOF-74 material as hydrogen adsorbent. 2015 , 40, 5346-5352	67
1594	A rapid microwave-assisted synthesis of a sodium-cadmium metal-organic framework having improved performance as a CO2 adsorbent for CCS. 2015 , 44, 9955-63	27
1593	Two interpenetrating 3D frameworks based on 12-connected pentanuclear Co5 clusters. 2015 , 1091, 159-162	2
1592	A rare binuclear metallocyclic planar 20, 26 and 34 membered zinc-organic rings. 2015 , 93, 84-90	2
1591	Bidimensional cadmium metal-organic frameworks based on 1,3-bis(4-pyridyl)propane displaying long lifetime photoluminescence emission. 2015 , 91, 47-51	6
1590	Long and local range structural changes in M[(bdc)(ted)0.5] (M´=´Zn, Ni or Cu) metal organic frameworks upon spontaneous thermal dispersion of LiCl and adsorption of carbon dioxide. 2015 , 212, 8-17	21
1589	Thermal stability of ionic nets with CuII ions coordinated to di-2-pyridyl ketone: Reversible crystal-to-crystal phase transformation. 2015 , 92, 117-123	11

1588	Elucidating Lewis acidity of metal sites in MFU-4l metal-organic frameworks: N2O and CO2 adsorption in MFU-4l, CuI-MFU-4l and Li-MFU-4l. 2015 , 216, 146-150	13
1587	Quantum-Chemical Characterization of the Properties and Reactivities of Metal-Organic Frameworks. 2015 , 115, 6051-111	197
1586	Extreme Flexibility in a Zeolitic Imidazolate Framework: Porous to Dense Phase Transition in Desolvated ZIF-4. 2015 , 54, 6447-51	66
1585	Flexible Solid-State Supercapacitor Based on a Metal-Organic Framework Interwoven by Electrochemically-Deposited PANI. 2015 , 137, 4920-3	681
1584	Lithium ion battery application of porous composite oxide microcubes prepared via metal-organic frameworks. 2015 , 284, 109-114	63
1583	Toward rational and modular molecular design in soft matter engineering. 2015 , 33, 797-814	37
1582	Postsynthetic Metal and Ligand Exchange in MFU-4l: A Screening Approach toward Functional Metal-Organic Frameworks Comprising Single-Site Active Centers. 2015 , 21, 8188-99	56
1581	MIL-101 as Reusable Solid Catalyst for Autoxidation of Benzylic Hydrocarbons in the Absence of Additional Oxidizing Reagents. 2015 , 5, 3216-3224	86
1580	Combined Effect of Hydrogen Bonding and IIIIStacking Interactions in the Assembly of Indium(III) MetalâDrganic Materials: Structure-Directing and Aggregation-Induced Emission Behavior. 2015 , 15, 2402-2412	28
1579	Metal-organic frameworks: Breaking bad chemicals down. 2015 , 14, 469-70	9
1578	Automated growth of metal-organic framework coatings on flow-through functional supports. 2015 , 51, 8169-72	22
1577	MetalâBrganic frameworks and their derived nanostructures for electrochemical energy storage and conversion. 2015 , 8, 1837-1866	1246
1576	Crystalline Capsules: MetalâDrganic Frameworks Locked by Size-Matching Ligand Bolts. 2015 , 127, 6064-6068	7
1575	Extreme Flexibility in a Zeolitic Imidazolate Framework: Porous to Dense Phase Transition in Desolvated ZIF-4. 2015 , 127, 6547-6551	20
1574	Exceptional CO working capacity in a heterodiamine-grafted metal-organic framework. 2015, 6, 3697-3705	107
1573	Hydrophobic and moisture-stable metal-organic frameworks. 2015 , 44, 13490-7	41
1572	Effect of various alkaline agents on the size and morphology of nano-sized HKUST-1 for CO2 adsorption. 2015 , 5, 27901-27911	36
1571	Synthesis of nanoporous hypercrosslinked polyaniline (HCPANI) for gas sorption and electrochemical supercapacitor applications. 2015 , 5, 45749-45754	32

1570	Lanthanide ions (Eu3+, Tb3+, Sm3+, Dy3+) activated ZnO embedded zinc 2,5-pyridinedicarboxylic metalâBrganic frameworks for luminescence application. 2015 , 3, 2823-2830	33
1569	H2O Adsorption/Desorption in MOF-74: Ab Initio Molecular Dynamics and Experiments. 2015 , 119, 13021-130	3 3 6
1568	Super adsorption capability from amorphousization of metal oxide nanoparticles for dye removal. 2015 , 5, 9028	64
1567	Electric transport properties of surface-anchored metal-organic frameworks and the effect of ferrocene loading. 2015 , 7, 9824-30	67
1566	Photoinduced Charge-Carrier Generation in Epitaxial MOF Thin Films: High Efficiency as a Result of an Indirect Electronic Band Gap?. 2015 , 54, 7441-5	182
1565	Single crystalline hollow metal-organic frameworks: a metal-organic polyhedron single crystal as a sacrificial template. 2015 , 51, 3678-81	44
1564	Photoinduced postsynthetic polymerization of a metal-organic framework toward a flexible stand-alone membrane. 2015 , 54, 4259-63	191
1563	Photoluminescent calcium azolium carboxylates with diversified calcium coordination geometry and thermal stability. 2015 , 44, 7338-46	13
1562	Amide-containing zinc(II) metalâBrganic layered networks: a structureâDO2 capture relationship. 2015 , 2, 477-484	13
1561	Positioning of the HKUST-1 metalâBrganic framework (Cu3(BTC)2) through conversion from insoluble Cu-based precursors. 2015 , 2, 434-441	44
1560	Systematic ligand modulation enhances the moisture stability and gas sorption characteristics of quaternary metal-organic frameworks. 2015 , 137, 3901-9	118
1559	The Dynamic Assembly of Covalent Organic Polygons: Finding the Optimal Balance of Solubility, Functionality, and Stability. 2015 , 2015, 2928-2941	8
1558	Photoinduced Postsynthetic Polymerization of a MetalâDrganic Framework toward a Flexible Stand-Alone Membrane. 2015 , 127, 4333-4337	50
1557	Single crystal to single crystal (SC-to-SC) transformation from a nonporous to porous metal-organic framework and its application potential in gas adsorption and Suzuki coupling reaction through postmodification. 2015 , 21, 5962-71	22
1556	Solar cooling with hydrophilic porous materials for reducing building cooling needs. 2015 , 269-305	1
1555	Inverse CeO2/CuO catalysts prepared from heterobimetallic metalâBrganic framework precursor for preferential CO oxidation in H2-rich stream. 2015 , 40, 4830-4839	37
1554	New iron tetrazolate frameworks: synthesis, temperature effect, thermal behaviour, M\(\mathbb{S}\)sbauer and magnetic studies. 2015 , 44, 7951-9	13
1553	Multifunctional [email´protected] for One-Pot Cascade Reactions: Combination of Hostâluest Cooperation and Bimetallic Synergy in Catalysis. 2015 , 5, 2062-2069	304

1552	Postsynthetic ligand exchange for the synthesis of benzotriazole-containing zeolitic imidazolate framework. 2015 , 51, 6540-3	27
1551	A 2D bilayered metal-organic framework as a fluorescent sensor for highly selective sensing of nitro explosives. 2015 , 44, 7822-7	85
1550	Two-photon responsive metal-organic framework. 2015 , 137, 4026-9	159
1549	Zeolitic imidazolate framework dispersions for the fast and highly efficient extraction of organic micropollutants. 2015 , 5, 28203-28210	27
1548	Chemical principles underpinning the performance of the metal-organic framework HKUST-1. 2015 , 6, 3674-3683	96
1547	Metal organic frameworks for sensing applications. 2015 , 73, 39-53	319
1546	Chemical sensing in two dimensional porous covalent organic nanosheets. 2015 , 6, 3931-3939	385
1545	Periodic tiling of triangular and square nanotubes in a cationic metal-organic framework for selective anion exchange. 2015 , 51, 9515-8	68
1544	Controlled in situ reaction for the assembly of Cu(II) mixed-ligand coordination polymers: synthesis, structure, mechanistic insights, magnetism and catalysis. 2015 , 44, 11013-20	26
1543	Postsynthetic Modification of an Alkyne-Tagged Zirconium Metal-Organic Framework via a "Click" Reaction. 2015 , 54, 5139-41	45
1542	Facile method to disperse nonporous metal organic frameworks: composite formation with a porous metal organic framework and application in adsorptive desulfurization. 2015 , 7, 10429-35	61
1541	Enhanced visible-light photocatalytic performance of BiOBr/UiO-66(Zr) composite for dye degradation with the assistance of UiO-66. 2015 , 5, 39592-39600	86
1540	Polystyrenesulfonate Threaded in MIL-101Cr(III): A Cationic Polyelectrolyte Synthesized Directly into a MetalâDrganic Framework. 2015 , 27, 3601-3608	42
1539	Metalaance Framework-Based Catalysts: Chemical Fixation of CO2 with Epoxides Leading to Cyclic Organic Carbonates. 2015 , 2,	184
1538	A molecular shuttle that operates inside a metal-organic framework. 2015 , 7, 514-9	206
1537	The local electric field favours more than exposed nitrogen atoms on CO2 capture: a case study on the rht-type MOF platform. 2015 , 51, 9636-9	42
1536	MetalâBrganic framework composite membranes: Synthesis and separation applications. 2015 , 135, 232-257	182
1535	Crystalline capsules: metal-organic frameworks locked by size-matching ligand bolts. 2015 , 54, 5966-70	124

1534	Solvent Dependent Structures of Melamine: Porous or Nonporous?. 2015 , 15, 1871-1875	27
1533	A Temperature-Responsive Smart Europium Metal-Organic Framework Switch for Reversible Capture and Release of Intrinsic Eu Ions. 2015 , 2, 1500012	71
1532	Mother structures related to the hexagonal and cubic close packing in Cu24 clusters: solvent-influenced derivatives. 2015 , 17, 3297-3304	11
1531	Molecular Design of Amorphous Porous Organic Cages for Enhanced Gas Storage. 2015 , 119, 7746-7754	34
1530	An ultrastable Zr metalâBrganic framework with a thiophene-type ligand containing methyl groups. 2015 , 17, 3586-3590	47
1529	Editorial for the ACS select virtual issue on inorganic chemistry driving the energy sciences. 2015 , 54, 3079-83	3
1528	Enhanced Photocatalytic Activity of the AgI/UiO-66(Zr) Composite for Rhodamine B Degradation under Visible-Light Irradiation. 2015 , 80, 1321-1328	47
1527	Tunable Rare Earth fcu-MOF Platform: Access to Adsorption Kinetics Driven Gas/Vapor Separations via Pore Size Contraction. 2015 , 137, 5034-40	261
1526	Tunable catalytic activity of solid solution metal-organic frameworks in one-pot multicomponent reactions. 2015 , 137, 6132-5	122
1525	Crystal structure of the coordination polymer [Cu2(S-mal)2(bpy)2(H2O)][2.5H2O. 2015, 56, 108-112	4
1524	Structural Study of Mg-Based Metalâ©rganic Frameworks by X-ray Diffraction, 1H, 13C, and 25Mg Solid-State NMR Spectroscopy, and First-Principles Calculations. 2015 , 119, 7831-7841	18
1523	Hierarchically functionalized magnetic core/multishell particles and their postsynthetic conversion to polymer capsules. 2015 , 9, 4219-26	33
1522	Immobilization of Cu Complex into Zr-Based MOF with Bipyridine Units for Heterogeneous Selective Oxidation. 2015 , 119, 8131-8137	76
1521	A Zr metal-organic framework based on tetrakis(4-carboxyphenyl) silane and factors affecting the hydrothermal stability of Zr-MOFs. 2015 , 44, 8049-61	66
1520	Architectures varying from discrete molecular units to 2-dimensional coordination polymers and photoluminescence behavior of zinc and cadmium comprising an anionic zwitterion of rigid 4,5-dicarboxy-1,3-dimethyl-1H-imidazolium iodide. 2015 , 17, 2754-2768	8
1519	Mechanistic insight into the interaction and adsorption of Cr(VI) with zeolitic imidazolate framework-67 microcrystals from aqueous solution. 2015 , 274, 238-246	196
1518	Magnesium-based systems for carbon dioxide capture, storage and recycling: from leaves to synthetic nanostructured materials. 2015 , 5, 36192-36239	53
1517	Two coordination polymers of benzene-1,2,4,5-tetracarboxylic acid (H4BTC): in situ ligand syntheses, structures, and luminescent properties. 2015 , 17, 3519-3525	14

1516	Efficient, Scalable Syntheses of Linker Molecules for Metal-Organic Frameworks. 2015 , 26, 1480-1485	11
1515	A Hafnium-Based Metal-Organic Framework as a Nature-Inspired Tandem Reaction Catalyst. 2015 , 137, 13624-31	115
1514	A nickel-based metal-organic framework: A novel optimized anode material for Li-ion batteries. 2015 , 161, 712-715	44
1513	Syntheses, structures and properties of five Cu(II) coordination polymers derived from semi-rigid bis-pyridyl-bis-amide and nitro-substituted aromatic carboxylates. 2015 , 101, 290-298	3
1512	Systematic Tuning and Multifunctionalization of Covalent Organic Polymers for Enhanced Carbon Capture. 2015 , 137, 13301-7	171
1511	An azobenzene-containing metal-organic framework as an efficient heterogeneous catalyst for direct amidation of benzoic acids: synthesis of bioactive compounds. 2015 , 51, 17132-5	44
1510	Transition from ZIF-L-Co to ZIF-67: a new insight into the structural evolution of zeolitic imidazolate frameworks (ZIFs) in aqueous systems. 2015 , 17, 8212-8215	108
1509	Coordination templated [2+2+2] cyclotrimerization in a porous coordination framework. 2015 , 6, 8348	84
1508	L-Aspartate links for stable sodium metal-organic frameworks. 2015 , 51, 17463-6	22
1507	Reactivity I: A Foundation-Level Course for Both Majors and Nonmajors in Integrated Organic, Inorganic, and Biochemistry. 2015 , 92, 2067-2073	14
1506	Crystal Facets Make a Profound Difference in Polyoxometalate-Containing Metal-Organic Frameworks as Catalysts for Biodiesel Production. 2015 , 137, 12697-703	119
1505	Zeolitic imidazolate metal organic framework ZIF-8 with ultra-high adsorption capacity bound tetracycline in aqueous solution. 2015 , 5, 82127-82137	130
1504	Metal-organic framework composites with luminescent gold(iii) complexes. Strongly emissive and long-lived excited states in open air and photo-catalysis. 2015 , 6, 7105-7111	47
1503	Supramolecular interactions in the solid state. 2015 , 2, 675-90	91
1502	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
1501	Fabrication of copper sulfide using a Cu-based metal organic framework for the colorimetric determination and the efficient removal of Hg2+ in aqueous solutions. 2015 , 39, 9221-9227	37
1500	Towards the use of metalâBrganic frameworks for water reuse: a review of the recent advances in the field of organic pollutants removal and degradation and the next steps in the field. 2015 , 3, 22484-22506	424
1499	Inkjet Printing of Lanthanide-Organic Frameworks for Anti-Counterfeiting Applications. 2015 , 7, 27115-23	111

(2015-2015)

1498	for Lithium-ion Batteries. 2015 , 186, 50-57	43
1497	Modulating adsorption and stability properties in pillared metal-organic frameworks: a model system for understanding ligand effects. 2015 , 48, 2850-7	72
1496	Effective, Facile, and Selective Hydrolysis of the Chemical Warfare Agent VX Using Zr6-Based Metal-Organic Frameworks. 2015 , 54, 10829-33	115
1495	The Lead Coordination Polymers Containing Pyrazine-2,3-Dicarboxylic Acid: Rapid Structural Transformations and Cation Exchange. 2015 , 15, 5930-5938	20
1494	Facile Fabrication of Ultrathin MetalâDrganic Framework-Coated Monolayer Colloidal Crystals for Highly Efficient Vapor Sensing. 2015 , 27, 7601-7609	54
1493	Anion and Cation Effects on Anion-Templated Assembly of Tetrahydroxytriptycene. 2015 , 15, 5629-5636	13
1492	Beyond Single-Wavelength SHG Measurements: Spectrally-Resolved SHG Studies of Tetraphosphonate Ester Coordination Polymers. 2015 , 54, 10568-75	24
1491	Reversible Single-Crystal to Single-Crystal Transformations of a Zn(II)-Salicyaldimine Coordination Polymer Accompanying Changes in Coordination Sphere and Network Dimensionality upon Dehydration and Rehydration. 2015 , 54, 10918-24	14
1490	Orthogonal Ternary Functionalization of a Mesoporous Metal-Organic Framework via Sequential Postsynthetic Ligand Exchange. 2015 , 137, 10508-11	77
1489	A two-dimensional ZnII coordination polymer constructed from benzene-1,2,3-tricarboxylic acid and N,N'-bis[(pyridin-4-yl)methylidene]hydrazine. 2015 , 71, 521-5	
1488	Fabrication of a Substituted Imidazolate Material 1 (SIM-1) membrane using post synthetic modification (PSM) for pervaporation of water/ethanol mixtures. 2015 , 22, 1275-1284	14
1487	Thermodynamic versus kinetic control in self-assembly of zero-, one-, quasi-two-, and two-dimensional metal-organic coordination structures. 2015 , 142, 101909	22
1486	Phosphine Gas Adsorption in a Series of Metal-Organic Frameworks. 2015 , 54, 8162-4	22
1485	Targeted capture and pressure/temperature-responsive separation in flexible metalâBrganic frameworks. 2015 , 3, 22574-22583	24
1484	MetalâBrganic framework deposition on dealloyed substrates. 2015 , 3, 19747-19753	9
1483	Silver(I)-Promoted ipso-Nitration of Carboxylic Acids by Nitronium Tetrafluoroborate. 2015 , 80, 10498-504	28
1482	De facto methodologies toward the synthesis and scale-up production of UiO-66-type metal-organic frameworks and membrane materials. 2015 , 44, 19018-40	129
1481	Monolithic, Crystalline MOF Coating: An Excellent Patterning and Photoresist Material. 2015 , 1, 338-345	28

1480	A multifunctional microporous anionic metalabrganic framework for column-chromatographic dye separation and selective detection and adsorption of Cr3+. 2015 , 3, 23426-23434	102
1479	Synthesis and O2 Reactivity of a Titanium(III) Metal-Organic Framework. 2015 , 54, 10096-104	65
1478	Visible-Light Photoreduction of CO2 in a Metal-Organic Framework: Boosting Electron-Hole Separation via Electron Trap States. 2015 , 137, 13440-3	710
1477	Synthesis and Selective CO2 Capture Properties of a Series of Hexatopic Linker-Based Metal-Organic Frameworks. 2015 , 54, 10065-72	39
1476	Semiconductor Behavior of a Three-Dimensional Strontium-Based Metal-Organic Framework. 2015 , 7, 22767-74	59
1475	Crystal structure of the chained metal-organic coordination polymer [Cd(dmf)(ntca)]. 2015 , 56, 792-794	
1474	1D photonic defect structures based on colloidal porous frameworks: Reverse pore engineering and vapor sorption. 2015 , 216, 216-224	11
1473	Insights into the separation performance of MOFs by high-performance liquid chromatography and in-depth modelling. 2015 , 156, 249-258	12
1472	Electronic structure of porphyrin-based metalâBrganic frameworks and their suitability for solar fuel production photocatalysis. 2015 , 3, 23458-23465	47
1471	Spatial, Hysteretic, and Adaptive Host-Guest Chemistry in a Metal-Organic Framework with Open Watson-Crick Sites. 2015 , 54, 10454-9	66
1470	An lcy-topology amino acid MOF as eco-friendly catalyst for cyclic carbonate synthesis from CO2: Structure-DFT corroborated study. 2015 , 3, 22636-22647	90
1469	SierpiEki-triangle fractal crystals with the C3v point group. 2015 , 26, 1198-1202	39
1468	ZnS nanoparticles embedded in porous carbon matrices as anode materials for lithium ion batteries. 2015 , 5, 86941-86944	71
1467	Unique topological motifs in two Cd(II)-coordination polymers: mutual-embedded 2D bilayers, 3D polythreaded structures, self-penetrated networks and 2D -f2D interpenetrated homochiral bilayers. 2015 , 17, 9055-9061	16
1466	Theoretical Investigation of Charge Transfer in Metal Organic Frameworks for Electrochemical Device Applications. 2015 , 119, 24238-24247	51
1465	Facile Conversion of Hydroxy Double Salts to Metal-Organic Frameworks Using Metal Oxide Particles and Atomic Layer Deposition Thin-Film Templates. 2015 , 137, 13756-9	135
1464	Highly active self-immobilized FI-Zr catalysts in a PCP framework for ethylene polymerization. 2015 , 51, 16703-6	18
1463	ZnO/C microboxes derived from coordination polymer particles for superior lithium ion battery anodes. 2015 , 5, 88989-88995	12

(2015-2015)

1462	MetalâDrganic Framework. 2015 , 119, 24522-24528	34
1461	Reversible Tuning Hydroquinone/Quinone Reaction in MetalâDrganic Framework: Immobilized Molecular Switches in Solid State. 2015 , 27, 6426-6431	61
1460	Hybrid glasses from strong and fragile metal-organic framework liquids. 2015 , 6, 8079	164
1459	Efficient acetalization of benzaldehydes using UiO-66 and UiO-67: Substrates accessibility or Lewis acidity of zirconium. 2015 , 506, 77-84	52
1458	Tetrahedral Tetraphosphonic Acids. New Building Blocks in Supramolecular Chemistry. 2015 , 15, 4925-4931	19
1457	Light driven mesoscale assembly of a coordination polymeric gelator into flowers and stars with distinct properties. 2015 , 6, 6583-6591	52
1456	Synthesis and post-synthetic modification of amine-, alkyne-, azide- and nitro-functionalized metal-organic frameworks based on DUT-5. 2015 , 44, 16802-9	35
1455	Syntheses, structures, and properties of six cobalt(II) complexes based on a tripodal tris(4-(1H-1,2,4-triazol-1-yl)phenyl)amine ligand. 2015 , 44, 16854-64	19
1454	Identifying Highly Selective Metal Organic Frameworks for CH4/H2 Separations Using Computational Tools. 2015 , 54, 8479-8491	41
1453	A Metal Organic Framework with Spherical Protein Nodes: Rational Chemical Design of 3D Protein Crystals. 2015 , 137, 11598-601	124
1452	Opportunities and challenges of MOF-based membranes in gas separations. 2015 , 152, 207-237	182
1451	Charge-tunable indium-organic frameworks built from cationic, anionic, and neutral building blocks. 2015 , 44, 16671-4	33
1450	High-capacity room-temperature hydrogen storage of zeolitic imidazolate framework/graphene oxide promoted by platinum metal catalyst. 2015 , 40, 12275-12285	56
1449	A microporous metal-organic framework with polarized trifluoromethyl groups for high methane storage. 2015 , 51, 14789-92	35
1448	MetalâBrganic frameworks for applications in remediation of oxyanion/cation-contaminated water. 2015 , 17, 7245-7253	105
1447	Anion-templated hexagonal nanotubes. 2015 , 6, 6245-6249	22
1446	A fluorescent paramagnetic Mn metal-organic framework based on semi-rigid pyrene tetra-carboxylic acid: sensing of solvent polarity and explosive nitroaromatics. 2015 , 2, 552-62	34
1445	Insight into the catalytic properties and applications of metalâbrganic frameworks in the cyanosilylation of aldehydes. 2015 , 5, 79355-79360	50

1444	Fabrication of nickel oxide nanostructures with high surface area and application for urease-based biosensor for urea detection. 2015 , 5, 78807-78814	15
1443	Two nanocage-based metal-organic frameworks with mixed-cluster SBUs and CO2 sorption selectivity. 2015 , 54, 8937-42	30
1442	Visible-light, photoredox catalyzed, oxidative hydroxylation of arylboronic acids using a metal-organic framework containing tetrakis(carboxyphenyl)porphyrin groups. 2015 , 51, 16103-6	71
1441	MOF nanoparticles coated by lipid bilayers and their uptake by cancer cells. 2015 , 51, 15752-5	152
1440	Polydopamine tethered enzyme/metal-organic framework composites with high stability and reusability. 2015 , 7, 18883-6	147
1439	Different acidity and additive effects of zirconium metalâBrganic frameworks as catalysts for cyanosilylation. 2015 , 5, 79216-79223	19
1438	Three Zn(II)/Cd(II)/Mn(II) coordination polymers based on a 2-hydroxy-N-(1H-tetrazol-5-yl) benzamide ligand: structures, and magnetic and photoluminescence properties. 2015 , 5, 78642-78647	2
1437	MOF Crystal Chemistry Paving the Way to Gas Storage Needs: Aluminum-Based soc-MOF for CH4, O2, and CO2 Storage. 2015 , 137, 13308-18	475
1436	Combination effect of ionic liquid components on the structure and properties in 1,4-benzenedicarboxylate based zinc metal-organic frameworks. 2015 , 44, 17980-9	22
1435	Bis(dipyrrinato)metal(ii) coordination polymers: crystallization, exfoliation into single wires, and electric conversion ability. 2015 , 6, 2853-2858	52
1434	Investigating water and framework dynamics in pillared MOFs. 2015 , 41, 1379-1387	10
1433	New luminescent porous coordination polymers with an acylamide-decorated linker for anion recognition and reversible I2 accommodation. 2015 , 17, 8226-8230	13
1432	Early stages of ZIF-8 film growth: the enhancement effect of primers exposing sulfonate groups as surface-confined nucleation agents. 2015 , 5, 73958-73962	13
1431	Nitrogen-modified carbon nanostructures derived from metal-organic frameworks as high performance anodes for Li-ion batteries. 2015 , 180, 852-857	31
1430	Spontaneous chiral resolution of a rare 3D self-penetration coordination polymer for sensitive aqueous-phase detection of picric acid. 2015 , 44, 18386-94	39
1429	Adsorption Kinetics in Nanoscale Porous Coordination Polymers. 2015 , 7, 21712-6	12
1428	Heterogeneity within a Mesoporous Metal-Organic Framework with Three Distinct Metal-Containing Building Units. 2015 , 137, 13456-9	77
1427	A multifunctional metal-organic framework based tumor targeting drug delivery system for cancer therapy. 2015 , 7, 16061-70	202

1426	Effects of amino functionality on uptake of CO2, CH4 and selectivity of CO2/CH4 on titanium based MOFs. 2015 , 160, 318-327	67
1425	Zn(ii) assisted synthesis of porous salen as an efficient heterogeneous scaffold for capture and conversion of CO2. 2015 , 51, 15732-5	85
1424	Facile preparation and dual catalytic activity of copper(I)-metallosalen coordination polymers. 2015 , 44, 17360-5	16
1423	A surfactant template-assisted strategy for synthesis of ZIF-8 hollow nanospheres. 2015 , 161, 682-685	17
1422	Ultraporous, Water Stable, and Breathing Zirconium-Based Metal-Organic Frameworks with ftw Topology. 2015 , 137, 13183-90	125
1421	Influence of chemical composition of the open bimetallic sites of MOF-74 on H2 adsorption. 2015 , 21, 589-595	8
1420	Water Desalination through Zeolitic Imidazolate Framework Membranes: Significant Role of Functional Groups. 2015 , 31, 13230-7	77
1419	Adsorption Kinetics of Methylene Blue on Synthesized DMF-MIL-101(Cr), a DMF-Functionalized Metal-Organic Framework. 2015 , 671, 419-424	1
1418	2D metalåBrganic networks based on asymmetric hexa-carboxylates and tetra-carboxylates ligands: A microporous Cl-pillared anionic bilayer and a neutral (4, 8)-net. 2015 , 438, 153-159	1
1417	Three-Dimensional Metal-Catecholate Frameworks and Their Ultrahigh Proton Conductivity. 2015 , 137, 15394-7	216
1416	Synthesis of enzyme-embedded metalâBrganic framework nanocrystals in reverse micelles. 2015 , 5, 101293-1	043296
1415	The roles of rod-packed organic units for preparing stable porous coordination polymers with carboxylate ligands. 2015 , 61, 53-56	2
1414	Bioactive MIL-88A Framework Hollow Spheres via Interfacial Reaction In-Droplet Microfluidics for Enzyme and Nanoparticle Encapsulation. 2015 , 27, 7903-7909	100
1413	Prussian blue modified metalâBrganic framework MIL-101(Fe) with intrinsic peroxidase-like catalytic activity as a colorimetric biosensing platform. 2015 , 5, 98215-98221	58
1412	Immobilization of Metal-Organic Framework Copper(II) Benzene-1,3,5-tricarboxylate (CuBTC) onto Cotton Fabric as a Nitric Oxide Release Catalyst. 2015 , 7, 26742-50	74
1411	Scandium-Triflate/Metal-Organic Frameworks: Remarkable Adsorbents for Desulfurization and Denitrogenation. 2015 , 54, 11498-504	37
1410	Field-Induced Slow Magnetic Relaxation and Gas Adsorption Properties of a Bifunctional Cobalt(II) Compound. 2015 , 54, 11362-8	43
1409	Density Functional Theory Computational Study of Alkali Cation-Exchanged Sodalite-like Zeolitelike MetalâDrganic Framework for CO2, N2, and CH4 Adsorption. 2015 , 119, 27449-27456	4

1408	Immunosensing of Atrazine with Antibody-Functionalized Cu-MOF Conducting Thin Films. 2015 , 7, 26124-30	75
1407	Metal-Organic Frameworks (MOFs) as Sandwich Coating Cushion for Silicon Anode in Lithium Ion Batteries. 2015 , 7, 26608-13	60
1406	Metal-Organic Polymers Containing Discrete Single-Walled Nanotube as a Heterogeneous Catalyst for the Cycloaddition of Carbon Dioxide to Epoxides. 2015 , 137, 15066-9	221
1405	Mechanisms of Plastic Deformation of Metalâ©rganic Framework-5. 2015 , 119, 25845-25852	25
1404	Extra adsorption and adsorbate superlattice formation in metal-organic frameworks. 2015 , 527, 503-7	176
1403	A sensitive and selective sensor for biothiols based on the turn-on fluorescence of the Fe-MIL-88 metal-organic frameworks-hydrogen peroxide system. 2015 , 140, 8201-8	29
1402	Surfactant-free Pd nanoparticles immobilized to a metal-organic framework with size- and location-dependent catalytic selectivity. 2015 , 51, 2577-80	67
1401	Preparation and Analysis of Cyclodextrin-Based MetalâDrganic Frameworks: Laboratory Experiments Adaptable for High School through Advanced Undergraduate Students. 2015 , 92, 368-372	32
1400	Post metalation of solvothermally grown electroactive porphyrin metal-organic framework thin films. 2015 , 51, 2414-7	75
1399	Chemical and Structural Stability of Zirconium-based Metalâ©rganic Frameworks with Large Three-Dimensional Pores by Linker Engineering. 2015 , 127, 223-228	16
1398	Anion influences on the solid state coordination chemistry of copperâBispyrazole materials. 2015 , 427, 188-197	7
1397	Tuning Proton Conductivity in Alkali Metal Phosphonocarboxylates by Cation Size-Induced and Water-Facilitated Proton Transfer Pathways. 2015 , 27, 424-435	69
1396	Improving the mechanical stability of zirconium-based metalâBrganic frameworks by incorporation of acidic modulators. 2015 , 3, 1737-1742	96
1395	Structure refinement and photocatalytic properties of porous POMCPs by selecting the isomerous PYTTZ. 2015 , 44, 1948-54	26
1394	Targeted synthesis of a large triazine-based [4+6] organic molecular cage: structure, porosity and gas separation. 2015 , 51, 1976-9	75
1393	Chemical and structural stability of zirconium-based metal-organic frameworks with large three-dimensional pores by linker engineering. 2015 , 54, 221-6	121
1392	Topochemical conversion of a dense metal-organic framework from a crystalline insulator to an amorphous semiconductor. 2015 , 6, 1465-1473	54
1391	Structural and degradation studies of a biocompatible Zn-l-tartrate metalâBrganic framework. 2015 , 225, 59-64	6

1390	Ionized Zr-MOFs for highly efficient post-combustion CO 2 capture. 2015 , 124, 61-69	91
1389	Synthesis, culture medium stability, and in vitro and in vivo zebrafish embryo toxicity of metal-organic framework nanoparticles. 2015 , 21, 2508-18	146
1388	In Silico Discovery of High Deliverable Capacity MetalâDrganic Frameworks. 2015 , 119, 186-195	42
1387	ZnO as an Efficient Nucleating Agent for Rapid, Room Temperature Synthesis and Patterning of Zn-Based MetalâDrganic Frameworks. 2015 , 27, 690-699	55
1386	Metal-organic microstructures: from rectangular to stellated and interpenetrating polyhedra. 2015 , 137, 226-31	40
1385	Noble-metal-free MoS2 co-catalyst decorated UiO-66/CdS hybrids for efficient photocatalytic H2 production. 2015 , 166-167, 445-453	229
1384	Synthesis and click modification of an azido-functionalized Zr(IV) metalâBrganic framework and a catalytic study. 2015 , 5, 893-900	32
1383	The first example of a zirconium-oxide based metal-organic framework constructed from monocarboxylate ligands. 2015 , 44, 1516-9	20
1382	The first tritopic bridging ligand 1,3,5-tris(4-carboxyphenyl)-benzene (H3BTB) functionalized porous polyoxometalate-based metal-organic framework (POMOF): from design, synthesis to electrocatalytic properties. 2015 , 44, 1435-40	46
1381	Reversibly Dispersible/Collectable Metal-Organic Frameworks Prepared by Grafting Thermally Responsive and Switchable Polymers. 2015 , 300, 191-197	22
1380	Enhancing the water stability of Al-MIL-101-NH2 via postsynthetic modification. 2015 , 21, 314-23	67
1379	Amorphous 3D nanoflake array-assembled porous 2D cobaltâBxalate coordination polymer thin sheets with excellent pseudocapacitive performance. 2015 , 3, 1847-1852	63
1378	Tuning the spin-crossover behaviour of a hydrogen-accepting porous coordination polymer by hydrogen-donating guests. 2015 , 21, 1645-51	40
1377	A 3D (3,8)-connected net based on the tetranuclear Cu4 units constructed from mixed organic ligands. 2015 , 51, 106-109	6
1376	Effect of central metal ions of analogous metal-organic frameworks on adsorption of organoarsenic compounds from water: plausible mechanism of adsorption and water purification. 2015 , 21, 347-54	118
1375	Stabilization of Cu2O nanoparticles on a 2D metal-organic framework for catalytic Huisgen 1,3-dipolar cycloaddition reaction. 2015 , 44, 83-6	32
1374	Protonic Conductivity of Nanocrystalline Zeolitic Imidazolate Framework 8. 2015 , 153, 19-27	36
1373	Enhanced photovoltaic performance of Cu-based metal-organic frameworks sensitized solar cell by addition of carbon nanotubes. 2014 , 4, 3930	62

1372	Adsorption and removal of phthalic acid and diethyl phthalate from water with zeolitic imidazolate and metal-organic frameworks. 2015 , 282, 194-200	235
1371	Luminescent MOFs comprising mixed tritopic linkers and Cd(II)/Zn(II) nodes for selective detection of organic nitro compounds and iodine capture. 2015 , 223, 23-31	34
1370	A review on solid adsorbents for carbon dioxide capture. 2015 , 23, 1-11	398
1369	Benzene absorption in a protuberant-grid-type zinc(II)-organic framework triggered by the migration of guest water molecules. 2015 , 44, 62-5	10
1368	Preparation and characterization of metal-organic framework MIL-101(Cr)-coated solid-phase microextraction fiber. 2015 , 853, 303-310	128
1367	An electrically switchable metal-organic framework. 2014 , 4, 6114	57
1366	Preparation and characterization of MOF-PES ultrafiltration membranes. 2015, 132, n/a-n/a	38
1365	Large, heterometallic coordination cages based on ditopic metallo-ligands with 3-pyridyl donor groups. 2015 , 6, 1004-1010	94
1364	Fabrication of a nitrogen-doped graphene quantum dot from MOF-derived porous carbon and its application for highly selective fluorescence detection of Fe3+. 2015 , 3, 291-297	165
1363	In situ solvent and counteranion-induced synthesis, structural characterization and photoluminescence properties of Pb-based MOFs. 2015 , 39, 431-438	8
1362	3D metal-organic framework as highly efficient biosensing platform for ultrasensitive and rapid detection of bisphenol A. 2015 , 65, 295-301	149
1361	Rapid mechanochemical protocol for isostructural polycatenated coordination polymers $[M(BrIP)(BIX)]$ (M = Co(II), Zn(II)). 2015 , 87, 71-78	11
1360	Synthesis of metal-organic frameworks (MOFs) with microwave or ultrasound: Rapid reaction, phase-selectivity, and size reduction. 2015 , 285, 11-23	313
1359	Improving the moisture stability of a 3D zincâBrganic framework by incorporating methyl groups into the auxiliary ligand: Synthesis, characterization, luminescence and catalytic properties. 2015 , 1083, 421-425	11
1358	CO 2 capture in cation-exchanged metalâBrganic frameworks: Holistic modeling from molecular simulation to process optimization. 2015 , 124, 70-78	35
1357	Design of Highly Porous Single-Site Catalysts through Two-Step Postsynthetic Modification of Mixed-Linker MIL-53(Al). 2015 , 80, 188-195	23
1356	Auxiliary ligand-assisted two novel one-dimensional indium coordination polymers: Synthesis, crystal structures and photoluminescence characterization effected by solvent and temperature. 2015 , 51, 29-35	4
1355	A rational construction of microporous imide-bridged covalentaBrganic polytriazines for high-enthalpy small gas absorption. 2015 , 3, 878-885	69

(2015-2015)

1354	First examples of aliphatic zirconium MOFs and the influence of inorganic anions on their crystal structures. 2015 , 17, 331-337	34
1353	Crystal engineering, structureâfunction relationships, and the future of metalâBrganic frameworks. 2015 , 17, 229-246	204
1352	Effective adsorptive removal of indole from model fuel using a metal-organic framework functionalized with amino groups. 2015 , 283, 544-50	95
1351	Syntheses, structures and third-order nonlinear optical properties of three coordination polymers based on bis(imidazol-l-yl-methyl)benzene and aromatic dicarboxylic ligands. 2015 , 85, 607-614	15
1350	Post-assembly transformations of porphyrin-containing metal-organic framework (MOF) films fabricated via automated layer-by-layer coordination. 2015 , 51, 85-8	48
1349	Epoxidation of alkenes with molecular oxygen catalyzed by a manganese porphyrin-based metalâBrganic framework. 2015 , 59, 50-54	59
1348	Incorporation of a dioxomolybdenum(VI) complex in a ZrIV-based MetalâDrganic Framework and its application in catalytic olefin epoxidation. 2015 , 202, 106-114	31
1347	Tiny Pd@Co core-shell nanoparticles confined inside a metal-organic framework for highly efficient catalysis. 2015 , 11, 71-6	187
1346	Quantum mechanical predictions to elucidate the anisotropic elastic properties of zeolitic imidazolate frameworks: ZIF-4 vs. ZIF-zni. 2015 , 17, 375-382	76
1345	An unexpected Schiff base-type Ni(II) complex: synthesis, crystal structures, fluorescence, electrochemical property and SOD-like activities. 2015 , 137, 661-9	50
1344	Structural trends in hybrid perovskites [Me2NH2]M[HCOO]3 (M = Mn, Fe, Co, Ni, Zn): computational assessment based on Bader charge analysis. 2015 , 17, 295-298	25
1343	Recovery of HMF from aqueous solution by zeolitic imidazolate frameworks. 2015 , 124, 170-178	48
1342	A malonitrile-functionalized metal-organic framework for hydrogen sulfide detection and selective amino acid molecular recognition. 2014 , 4, 4366	86
1341	Thermodynamics of metal-organic frameworks. 2015 , 223, 53-58	38
1340	Location of CO2 during its uptake by the flexible porous metalâBrganic framework MIL-53(Fe): a high resolution powder X-ray diffraction study. 2015 , 17, 422-429	16
1339	An efficient recipe for formulation of metal-organic Frameworks. 2015 , 124, 154-158	40
1338	Metal-organic frameworks for lithium ion batteries and supercapacitors. 2015 , 223, 109-121	155
1337	Sulfonic acid-functionalized MIL-101(Cr): An efficient catalyst for esterification of oleic acid and vapor-phase dehydration of butanol. 2015 , 278, 265-271	82

1336	Heat-treatment of metalâBrganic frameworks for green energy applications. 2015, 17, 10-22	81
1335	Removal of hazardous organics from water using metal-organic frameworks (MOFs): plausible mechanisms for selective adsorptions. 2015 , 283, 329-39	909
1334	Facile Synthesis and Enhanced Adsorption Ability of Pt-GO/MOF Nanomaterials. 2016, 31, 141-145	4
1333	Crystal structure of poly[1,4-bis(2-methylbenzimidazol)butane-2N:N?)bis(4,4?-oxybis(benzoato-20,0?:O??,O???)dicadmium] monohydrate, C48H38Cd2N4O10. 2016 , 231, 907-909	2
1332	ATP-Responsive and Near-Infrared-Emissive Nanocarriers for Anticancer Drug Delivery and Real-Time Imaging. 2016 , 6, 1053-64	45
1331	A Family of Nitrogen-Enriched Metal Organic Frameworks with CCS Potential. 2016 , 6, 14	8
1330	Investigation by Raman Spectroscopy of the Decomposition Process of HKUST-1 upon Exposure to Air. 2016 , 2016, 1-7	39
1329	Elongated and substituted triazine-based tricarboxylic acid linkers for MOFs. 2016 , 12, 2267-2273	7
1328	Crystallography of Representative MOFs Based on Pillared Cyanonickelate (PICNIC) Architecture. 2016 , 6, 108	6
1327	Nitrogen-Rich Energetic Metal-Organic Framework: Synthesis, Structure, Properties, and Thermal Behaviors of Pb(II) Complex Based on N,N-Bis(1H-tetrazole-5-yl)-Amine. 2016 , 9,	19
1326	Catalytic Performance of a New 1D Cu(II) Coordination Polymer {Cu(NOâI(HâID)}(HTae)(4,4'-Bpy) for Knoevenagel Condensation. 2016 , 21,	2
1325	New URJC-1 Material with Remarkable Stability and Acid-Base Catalytic Properties. 2016, 8,	6
1324	Metal-Organic Frameworks as Materials for Fuel Cell Technologies. 2016 , 367-407	1
1323	An unusual H2 sorption mechanism in PCN-14: insights from molecular simulation. 2016 , 18, 21421-30	7
1322	A visible-light responsive zirconium metalâ®rganic framework for living photopolymerization of methacrylates. 2016 , 6, 66444-66450	15
1321	Transforming MOFs for Energy Applications Using the Guest@MOF Concept. 2016 , 55, 7233-49	52
1320	Anion-Directed Entangling Coordination Networks: Luminescence Sensing and Magnetic Properties. 2016 , 81, 857-863	10
1319	Direct Evidence of CO Capture under Low Partial Pressure on a Pillared Metal-Organic Framework with Improved Stabilization through Intramolecular Hydrogen Bonding. 2016 , 81, 850-856	17

1318	Metal-Organic Frameworks M-MOF-74 and M-MIL-100: Comparison of Textural, Acidic, and Catalytic Properties. 2016 , 81, 828-835	26
1317	Gadolinium(III)-Based Porous Luminescent Metal-Organic Frameworks for Bimodal Imaging. 2016 , 81, 728-732	27
1316	Flexible MetalâDrganic Frameworks with Discriminatory Gate-Opening Effect for the Separation of Acetylene from Ethylene/Acetylene Mixtures. 2016 , 2016, 4457-4462	32
1315	Proton Conductivities Manipulated by the Counter-Anions in 2D Co-Ca Coordination Frameworks. 2016 , 2016, 4476-4482	12
1314	Encapsulation of Single Plasmonic Nanoparticles within ZIF-8 and SERS Analysis of the MOF Flexibility. 2016 , 12, 3935-43	96
1313	Synthesis, crystal structure and luminescence studies of zinc(II) and cadmium(II) complexes with 6-(1H-tetrazol-5-yl)-2-naphthoic acid. 2016 , 18, 6396-6402	12
1312	Extended Linkers for Ultrahigh Surface Area MetalâDrganic Frameworks. 2016 , 271-307	1
1311	LBungsprozessierte MoS2-NanoplEtchen: Herstellung, Hybridisierung und Anwendungen. 2016 , 128, 8960-8984	51
1310	Hybrid Ultra-Microporous Materials for Selective Xenon Adsorption and Separation. 2016, 128, 8425-8429	27
1309	Remarkable Improvement in the Mechanical Properties and CO2 Uptake of MOFs Brought About by Covalent Linking to Graphene. 2016 , 128, 7988-7992	7
1308	An In Situ One-Pot Synthetic Approach towards Multivariate Zirconium MOFs. 2016 , 55, 6471-5	89
1307	Hybrid Ultra-Microporous Materials for Selective Xenon Adsorption and Separation. 2016 , 55, 8285-9	100
1306	The Utilization of Amide Groups To Expand and Functionalize Metal-Organic Frameworks Simultaneously. 2016 , 22, 6277-85	70
1305	A Breathing Zirconium Metal-Organic Framework with Reversible Loss of Crystallinity by Correlated Nanodomain Formation. 2016 , 22, 3264-3267	34
1304	Liquid-Phase Epitaxially Grown Metal-Organic Framework Thin Films for Efficient Tandem Catalysis Through Site-Isolation of Catalytic Centers. 2016 , 81, 708-713	19
1303	An In Situ One-Pot Synthetic Approach towards Multivariate Zirconium MOFs. 2016 , 128, 6581-6585	21
1302	Zeolitic Imidazolate Framework/Graphene Oxide Hybrid Nanosheets as Seeds for the Growth of Ultrathin Molecular Sieving Membranes. 2016 , 55, 2048-52	230
1301	Increasing the CO2 /N2 Selectivity with a Higher Surface Density of Pyridinic Lewis Basic Sites in Porous Carbon Derived from a Pyridyl-Ligand-Based Metal-Organic Framework. 2016 , 11, 1913-20	17

1300	Recent Advances in Heterogeneous Catalysis with Controlled Nanostructured Precious Monometals. 2016 , 8, 2303-2316	30
1299	A Base-Resistant Zn -Based Metal-Organic Framework: Synthesis, Structure, Postsynthetic Modification, and Gas Adsorption. 2016 , 81, 864-871	13
1298	Investigation of the Co-Dependence of Morphology and Fluorescence Lifetime in a Metal-Organic Framework. 2016 , 12, 3651-7	17
1297	The Road to MOF-Related Functional Materials and Beyond: Desire, Design, Decoration, and Development. 2016 , 16, 1456-76	14
1296	Adsorption of N/S-Heteroaromatic Compounds from Fuels by Functionalized MIL-101(Cr) Metalâ®rganic Frameworks: The Impact of Surface Functional Groups. 2016 , 30, 5593-5600	36
1295	Decorating the Edges of a 2D Polymer with a Fluorescence Label. 2016 , 138, 8976-81	16
1294	Centric and acentric networks using low-symmetry heterotopic carboxylate/pyridyl ligands. 2016 , 18, 6614-6623	2
1293	Photoresponsive spiropyran-functionalised MOF-808: postsynthetic incorporation and light dependent gas adsorption properties. 2016 , 4, 10816-10819	81
1292	Iron-Based Metal-Organic Frameworks as Catalysts for Visible Light-Driven Water Oxidation. 2016 , 12, 1351-8	100
1291	Polyoxometalate Cluster-Incorporated Metal-Organic Framework Hierarchical Nanotubes. 2016 , 12, 2982-90	45
129 0	Nanoparticle Cookies Derived from Metal-Organic Frameworks: Controlled Synthesis and Application in Anode Materials for Lithium-Ion Batteries. 2016 , 12, 2365-75	84
1289	Solid-State Molecular Nanomagnet Inclusion into a Magnetic Metal-Organic Framework: Interplay of the Magnetic Properties. 2016 , 22, 539-45	55
1288	Extraordinary Separation of Acetylene-Containing Mixtures with Microporous Metal-Organic Frameworks with Open O Donor Sites and Tunable Robustness through Control of the Helical Chain Secondary Building Units. 2016 , 22, 5676-83	85
1287	Carboxylation of Phenols with CO2 at Atmospheric Pressure. 2016 , 22, 6798-802	48
1286	Postsynthetic Modification of Metal-Organic Frameworks through Click Chemistry. 2016 , 34, 186-190	28
1285	Phosphorousâ®itrogen-Codoped Carbon Materials Derived from Metalâ®rganic Frameworks as Efficient Electrocatalysts for Oxygen Reduction Reactions. 2016 , 2016, 2100-2105	57
1284	Covalent Organic Frameworks for CO2 Capture. 2016 , 28, 2855-73	644
T 2 9 2	Linkers with Optical Functionality. 2016 , 463-489	1

1282	Metal-Organic Framework Templated Synthesis of Copper Azide as the Primary Explosive with Low Electrostatic Sensitivity and Excellent Initiation Ability. 2016 , 28, 5837-43	81
1281	Synthesis of Supported Ultrafine Non-noble Subnanometer-Scale Metal Particles Derived from Metal-Organic Frameworks as Highly Efficient Heterogeneous Catalysts. 2016 , 55, 1080-4	54
1280	Isorecticular Synthesis of Dissectible Molecular Bamboo Tubes of Hexarhenium(I) Benzene-1,2,3,4,5,6-hexaolate Complexes. 2016 , 55, 8343-7	26
1279	Supramolecular Crystals and Crystallization with Nanosized Motifs of Giant Molecules. 2016 , 183-213	4
1278	Perovskite-Like Polar Lanthanide Formate Frameworks of [NHNH][Ln(HCOO)] (Ln = Tb-Lu and Y): Synthesis, Structures, Magnetism, and Anisotropic Thermal Expansion. 2016 , 55, 10075-10082	20
1277	Superexchange Charge Transport in Loaded Metal Organic Frameworks. 2016 , 10, 7085-93	48
1276	Metal Organic Framework 199- Catalyzed Domino Sulfur-Coupling and Transfer Reactions: The Direct Synthesis of Symmetric Diaryl Disulfides from Aryl Halides. 2016 , 146, 1497-1504	7
1275	Encapsulating a Co(II) Molecular Photocatalyst in MetalâDrganic Framework for Visible-Light-Driven H2 Production: Boosting Catalytic Efficiency via Spatial Charge Separation. 2016 , 6, 5359-5365	140
1274	Remarkable Improvement in the Mechanical Properties and CO2 Uptake of MOFs Brought About by Covalent Linking to Graphene. 2016 , 55, 7857-61	49
1273	A Highly Permeable Aligned Montmorillonite Mixed-Matrix Membrane for CO2 Separation. 2016 , 128, 9467-9471	26
1272	Solution-Processed Two-Dimensional MoS2 Nanosheets: Preparation, Hybridization, and Applications. 2016 , 55, 8816-38	447
1271	A Highly Permeable Aligned Montmorillonite Mixed-Matrix Membrane for CO2 Separation. 2016 , 55, 9321-5	47
1270	Modulation of Gas Sorption Properties through Cation Exchange within an Anionic Metal-Organic Framework. 2016 , 81, 780-785	7
1269	An Unusual 3D Zinc-Organic Framework Constructed from Paddle-Wheel-Based Carboxylate Sheets Bridged by Acetate Ions. 2016 , 642, 709-713	3
1268	Nanomaterials for Fuel Cell Catalysis. 2016 ,	10
1267	Synthesis of highly monodispersed Ga-soc-MOF hollow cubes, colloidosomes and nanocomposites. 2016 , 52, 9901-4	41
1266	Carbon Capture and Storage: introductory lecture. 2016 , 192, 9-25	30
1265	Rational design and synthesis of an amino-functionalized hydrogen-bonded network with an ACO zeolite-like topology for gas storage. 2016 , 18, 5616-5619	11

1264	A Mononuclear Co(II) Coordination Complex Locked in a Confined Space and Acting as an Electrochemical Water-Oxidation Catalyst: A "Ship-in-a-Bottle" Approach. 2016 , 55, 2425-30	92
1263	Direct Fabrication of Free-Standing MOF Superstructures with Desired Shapes by Micro-Confined Interfacial Synthesis. 2016 , 55, 7116-20	31
1262	A heterometal (Pdâ P b) organic framework: synthesis, structure and heterogeneous catalytic application. 2016 , 30, 699-704	5
1261	Assembling Metal-Organic Frameworks in Ionic Liquids and Supercritical CO. 2016 , 11, 2610-2619	37
1260	De Novo Synthesis of Gold-Nanoparticle-Embedded, Nitrogen-Doped Nanoporous Carbon Nanoparticles (Au@NC) with Enhanced Reduction Ability. 2016 , 8, 502-509	48
1259	Chemoselective Hydrogenation of Crotonaldehyde Catalyzed by an Au@ZIF-8 Composite. 2016 , 8, 855-860	27
1258	Metal-Organic Framework-Templated Porous Carbon for Highly Efficient Catalysis: The Critical Role of Pyrrolic Nitrogen Species. 2016 , 22, 3470-3477	72
1257	Doxorubicin-Loaded MetalâDrganic Gels for pH and Glutathione Dual-Responsive Release. 2016 , 2, 504-508	26
1256	Enhanced Ligand-Based Luminescence in MetalâDrganic Framework Sensor. 2016 , 2, 866-872	23
1255	Framework Isomerism: Highly Augmented Copper(II)-Paddlewheel-[Based MOF with Unusual (3,4)-Net Topology. 2016 , 2016, 1939-1943	11
1254	SALE-Ing a MOF-Based âBhip of Theseus.âlSequential Building-Block Replacement for Complete Reformulation of a Pillared-Paddlewheel Metal-Organic Framework. 2016 , 2016, 4345-4348	16
1253	Reticular Chemistry of MetalâDrganic Frameworks Composed of Copper and Zinc Metal Oxide Secondary Building Units as Nodes. 2016 , 41-72	4
1252	Bioinspired Design of Ultrathin 2D Bimetallic Metal-Organic-Framework Nanosheets Used as Biomimetic Enzymes. 2016 , 28, 4149-55	320
1251	Platinfreie Nanomaterialien fil die Sauerstoffreduktion. 2016 , 128, 2698-2726	78
1250	Synthesis of Supported Ultrafine Non-noble Subnanometer-Scale Metal Particles Derived from Metalâ®rganic Frameworks as Highly Efficient Heterogeneous Catalysts. 2016 , 128, 1092-1096	15
1249	A Mononuclear CoII Coordination Complex Locked in a Confined Space and Acting as an Electrochemical Water-Oxidation Catalyst: A âBhip-in-a-Bottleâ[Approach. 2016 , 128, 2471-2476	22
1248	Earth-Abundant Nanomaterials for Oxygen Reduction. 2016 , 55, 2650-76	760
1247	Methanol Adsorption on HKUST-1 Coatings Obtained by Thermal Gradient Deposition. 2016 , 55, 13094-13101	13

1246	Confinement Effects of Metal-Organic Framework on the Formation of Charge-Transfer Tetrathiafulvalene Dimers. 2016 , 55, 12758-12765	22
1245	In Situ Generation of NiO Nanoparticles in a Magnetic Metal-Organic Framework Exhibiting Three-Dimensional Magnetic Ordering. 2016 , 55, 12938-12943	18
1244	Elaboration of a Highly Porous Ru Analogue of HKUST-1. 2016 , 55, 12492-12495	12
1243	Mathematical modeling of interaction energies between nanoscale objects: A review of nanotechnology applications. 2016 , 8, 168781401667702	5
1242	Multicomponent adsorption in mesoporous flexible materials with flat-histogram Monte Carlo methods. 2016 , 145, 174709	11
1241	Utilization of Metal-Organic Frameworks for the Management of Gases Used in Ion Implantation. 2016 ,	2
1240	New lanthanide biphenyl-4,4?-diacetates âlhydrothermal synthesis, spectroscopic, magnetic and thermal investigations. 2016 , 645, 16-23	13
1239	Nanoscale zinc-based metal-organic framework with high capacity for lithium-ion batteries. 2016 , 18, 1	18
1238	Origins of Negative Gas Adsorption. 2016 , 1, 873-886	68
1237	Guest-Induced Two-Way Structural Transformation in a Layered Metal-Organic Framework Thin Film. 2016 , 138, 16787-16793	46
1236	Tunable molecular separation by nanoporous membranes. 2016 , 7, 13872	156
1235	Processing and Characterizations: State-of-the-Art and New Challenges. 2016 , 1-26	
1234	Supramolecular Membranes: Synthesis and Characterizations. 2016 , 137-201	
1233	First-principles Hubbard U approach for small molecule binding in metal-organic frameworks. 2016 , 144, 174104	47
1232	Chiral Cu(salen)-Based Metal-Organic Framework for Heterogeneously Catalyzed Aziridination and Amination of Olefins. 2016 , 55, 12500-12503	35
1231	Mit variablem Abstand gestapelte lineare Ketten magnetischer Ionen: ferromagnetische Ordnung mit einer Curie-Temperatur von Ber 20 K. 2016 , 128, 12874-12879	
1230	Tunable integration of absorption-membrane-adsorption for efficiently separating low boiling gas mixtures near normal temperature. 2016 , 6, 21114	19
1229	A Variety of Phase-Transition Behaviors in a Niccolite Series of [NH3 (CH2)4 NH3][M(HCOO)3]2. 2016 , 22, 6199-203	35

1228	Carboxylic Acid Functionalized Clathrochelate Complexes: Large, Robust, and Easy-to-Access Metalloligands. 2016 , 55, 4006-15	32
1227	A three-dimensional accordion-like metal-organic framework: synthesis and unconventional oriented growth on a surface. 2016 , 52, 6017-20	16
1226	Facile stabilization of cyclodextrin metal-organic frameworks under aqueous conditions via the incorporation of C60 in their matrices. 2016 , 52, 5973-6	61
1225	Controllable Encapsulation of "Clean" Metal Clusters within MOFs through Kinetic Modulation: Towards Advanced Heterogeneous Nanocatalysts. 2016 , 55, 5019-23	150
1224	Vibrational fingerprint of the absorption properties of UiO-type MOF materials. 2016 , 135, 1	7
1223	Role of Anions in the Formation of Multidimensional Coordination Polymers: Selective Separation of Anionic Toxic Dyes by 3D-Cationic Framework and Luminescent Properties. 2016 , 16, 3002-3013	29
1222	Interplay of Confinement and Surface Energetics in the Interaction of Water with a MetalâDrganic Framework. 2016 , 120, 7562-7567	14
1221	Derivation and Decoration of Nets with Trigonal-Prismatic Nodes: A Unique Route to Reticular Synthesis of Metal-Organic Frameworks. 2016 , 138, 5299-307	73
1220	Integrated nanocatalysts with mesoporous silica/silicate and microporous MOF materials. 2016 , 320-321, 181-192	85
1219	New dinuclear copper complexes incorporating bis(imidazolyl) based ligands and bidentateafhonodentate oxalate bridges. Crystal structure and magnetic properties of [Cu2(BIM)2(C2O4)2][4H2O and [Cu2(BIK)2(C2O4)2] (BIM=bis(2-imidazolyl)methane),	5
1218	The Synthesis of Organic Molecules of Intrinsic Microporosity Designed to Frustrate Efficient Molecular Packing. 2016 , 22, 2466-72	39
1217	Chiral DHIP-Based Metal-Organic Frameworks for Enantioselective Recognition and Separation. 2016 , 55, 7229-32	36
1216	Structural diversity of Zn(II) coordination polymers based on bis-imidazolyl ligands and 5-R-1,3-benzenedicarboxylate and their photocatalytic properties. 2016 , 18, 4851-4862	24
1215	Effective removal of ciprofloxacin from aqueous solutions using magnetic metalaBrganic framework sorbents: mechanisms, isotherms and kinetics. 2016 , 13, 1617-1627	37
1214	Engineering of Two-dimensional Cobalt-Glycine Complex Thin Sheets of Vertically Aligned Nanosheet Basic Building Blocks for High Performance Supercapacitor Electrode Materials. 2016 , 210, 462-473	15
1213	Zirconium-metalloporphyrin frameworks as a three-in-one platform possessing oxygen nanocage, electron media, and bonding site for electrochemiluminescence protein kinase activity assay. 2016 , 8, 11649-57	45
1212	Facile Synthesis of Highly Uniform Fe-MIL-88B Particles. 2016 , 16, 3565-3568	90
1211	Force Field Development from Periodic Density Functional Theory Calculations for Gas Separation Applications Using MetalâDrganic Frameworks. 2016 , 120, 12590-12604	71

1210	A highly electrical conducting, 3D supermolecular Ag(I) coordination polymer material with luminescent properties. 2016 , 70, 31-34	4
1209	Tunable catalytic properties of multi-metalâBrganic frameworks for aerobic styrene oxidation. 2016 , 299, 135-141	6 7
1208	Adsorptive removal of acetic acid from water with metal-organic frameworks. 2016 , 111, 127-137	36
1207	Novel bipyridinyl oxadiazole-based metal coordination complexes: High efficient and green synthesis of 3,4-dihydropyrimidin-2(1H)-ones through the Biginelli reactions. 2016 , 241, 86-98	15
1206	Syntheses, crystal structures and properties of four novel zinc(II) complexes assembled from versatile 1,2,3,5-benzenetetracarboxylic acid and bridging dipyridyl ligands. 2016 , 112, 78-85	8
1205	Colorimetric sensing of bithiols using photocatalytic UiO-66(NH2) as H2O2-free peroxidase mimics. 2016 , 158, 276-282	40
1204	Silver(I) and Thioether-bis(pyrazolyl)methane Ligands: The Correlation between Ligand Functionalization and Coordination Polymer Architecture. 2016 , 16, 3543-3552	21
1203	Facile preparation of chitosan enwrapping Fe3O4 nanoparticles and MIL-101(Cr) magnetic composites for enhanced methyl orange adsorption. 2016 , 23, 1363-1372	16
1202	In-syringe extraction using dissolvable layered double hydroxide-polymer sponges templated from hierarchically porous coordination polymers. 2016 , 1453, 1-9	17
1201	Nanoscale Synthesis of Two Porphyrin-Based MOFs with Gallium and Indium. 2016 , 55, 5312-9	24
1200	Seawater Pervaporation through Zeolitic Imidazolate Framework Membranes: Atomistic Simulation Study. 2016 , 8, 13392-9	54
1199	Synthesis of Two-Dimensional CoS1.097/Nitrogen-Doped Carbon Nanocomposites Using Metal-Organic Framework Nanosheets as Precursors for Supercapacitor Application. 2016 , 138, 6924-7	485
1198	Towards metal-organic framework based field effect chemical sensors: UiO-66-NH for nerve agent detection. 2016 , 7, 5827-5832	88
1197	Metal-Organic Framework Based on Isonicotinate N-Oxide for Fast and Highly Efficient Aqueous Phase Cr(VI) Adsorption. 2016 , 55, 5507-13	88
1196	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. <i>Science</i> , 2016 , 353, 141-4	783
1195	Recent advances in enzyme immobilization techniques: Metal-organic frameworks as novel substrates. 2016 , 322, 30-40	279
1194	Decomposition Process of Carboxylate MOF HKUST-1 Unveiled at the Atomic Scale Level. 2016 , 120, 12879-12889	79
1193	UiO-66 MOF end-face-coated optical fiber in aqueous contaminant detection. 2016 , 41, 1696-9	24

1192	An unprecedented single platform via cross-linking of zeolite and MOFs. 2016 , 52, 6773-6	16
1191	Synthesis, structures, and luminescence of two 2-D microporous metal-organic frameworks in the zinc (cadmium)-dicarboxylate-imidazolate system. 2016 , 69, 1819-1827	10
1190	Selective Adsorption of n-Alkanes from n-Octane on Metal-Organic Frameworks: Length Selectivity. 2016 , 8, 6770-7	27
1189	Counter-ion control of structure in uranyl ion complexes with 2,5-thiophenedicarboxylate. 2016 , 18, 1550-156	5 2 26
1188	Capture and immobilisation of iodine (I2) utilising polymer-based ZIF-8 nanocomposite membranes. 2016 , 1, 122-131	34
1187	Photonic hybrid crystals constructed from in situ host-guest nanoconfinement of a light-emitting complex in metal-organic framework pores. 2016 , 8, 6851-9	26
1186	Zeolitic imidazolate framework-methacrylate composite monolith characterization by inverse gas chromatography. 2016 , 1443, 233-40	13
1185	Organic-Inorganic Perovskites: Structural Versatility for Functional Materials Design. 2016 , 116, 4558-96	1607
1184	Modifiable diyne-based covalent organic framework: a versatile platform for in situ multipurpose functionalization. 2016 , 6, 39150-39158	23
1183	Switching effective oxygen reduction and evolution performance by controlled graphitization of a cobaltafitrogenafarbon framework system. 2016 , 9, 1661-1667	236
1182	Stereoselective Halogenation of Integral Unsaturated C-C Bonds in Chemically and Mechanically Robust Zr and Hf MOFs. 2016 , 22, 4870-7	57
1181	Graphene-Templated Synthesis of Magnetic Metal Organic Framework Nanocomposites for Selective Enrichment of Biomolecules. 2016 , 8, 10234-42	56
1180	A pressure-amplifying framework material with negative gas adsorption transitions. 2016 , 532, 348-52	380
1179	A zinc(II)-based two-dimensional MOF for sensitive and selective sensing of HIV-1 ds-DNA sequences. 2016 , 922, 55-63	64
1178	A novel CAU-10-H MOF membrane for hydrogen separation under hydrothermal conditions. 2016 , 513, 40-46	32
1177	Structure elucidation of a complex CO-based organic framework material by NMR crystallography. 2016 , 7, 4379-4390	34
1176	Facile synthesis of a metalâBrganic framework-derived Mn2O3 nanowire coated three-dimensional graphene network for high-performance free-standing supercapacitor electrodes. 2016 , 4, 8283-8290	134
1175	Functionalization of metalâBrganic frameworks with cuprous sites using vapor-induced selective reduction: efficient adsorbents for deep desulfurization. 2016 , 18, 3210-3215	70

1174	Integrated Nanozymes with Nanoscale Proximity for in Vivo Neurochemical Monitoring in Living Brains. 2016 , 88, 5489-97	241
1173	Introduction of an organic acid phase changing material into metalâBrganic frameworks and the study of its thermal properties. 2016 , 4, 7641-7649	92
1172	MetalâBrganic coordination architectures of bis(N-imidazolyl) pyridazine: Syntheses, structures, emission and photocatalytic properties. 2016 , 111, 123-131	14
1171	A 2D metalâBrganic framework for selective adsorptions on organic dyes. 2016 , 446, 198-202	30
1170	A Fluorinated MetalâDrganic Framework for High Methane Storage at Room Temperature. 2016 , 16, 3395-3399	28
1169	One-Step Asymmetric Growth of Continuous Metalâ©rganic Framework Thin Films on Two-Dimensional Colloidal Crystal Arrays: A Facile Approach toward Multifunctional Superstructures. 2016 , 16, 2700-2707	10
1168	Highly porous carbons derived from MOFs for shape-stabilized phase change materials with high storage capacity and thermal conductivity. 2016 , 6, 40106-40114	57
1167	A 1-D coordination polymer route to catalytically active Co@C nanoparticles. 2016 , 6, 38533-38540	7
1166	Preparation of Nanofibrous Metal-Organic Framework Filters for Efficient Air Pollution Control. 2016 , 138, 5785-8	417
1165	Zn(II)/Cd(II) Terephthalate Coordination Polymers Incorporating Bi-, Tri-, and Tetratopic Phenylamine Derivatives: Crystal Structures and Photoluminescent Properties. 2016 , 16, 2747-2755	48
1164	Pore engineering of metalâBrganic frameworks: introduction of chemically accessible Lewis basic sites inside MOF channels. 2016 , 18, 3524-3550	31
1163	Metal-organic framework engineering: directed assembly from molecules to spherical agglomerates. 2016 , 62, 10-20	10
1162	An efficient combination of Zr-MOF and microwave irradiation in catalytic Lewis acid Friedel-Crafts benzoylation. 2016 , 45, 7875-80	36
1161	Safe Pâlreagent in a reusable porous coordination network. 2016 , 45, 6357-60	25
1160	Microscopic Mechanism of Chiral Induction in a Metal-Organic Framework. 2016 , 138, 6131-4	31
1159	Thermodynamically Guided Synthesis of Mixed-Linker Zr-MOFs with Enhanced Tunability. 2016 , 138, 6636-42	174
1158	Tuning the properties of the metal-organic framework UiO-67-bpy via post-synthetic N-quaternization of pyridine sites. 2016 , 45, 8614-21	50
1157	Mechanochemical synthesis of Cu-BTC@GO with enhanced water stability and toluene adsorption capacity. 2016 , 298, 191-197	132

1156	Anion-induced structural transformation of a sulfate-incorporated 2D Cd(II)âBrganic framework. 2016 , 239, 1-7	9
1155	Enhanced hydrogen and methane storage of hybrid mesoporous organosilicas. 2016 , 4, 9275-9285	9
1154	Nucleation of open framework materials: Navigating the voids. 2016 , 41, 393-398	35
1153	Lanthanide-directed synthesis of luminescent self-assembly supramolecular structures and mechanically bonded systems from acyclic coordinating organic ligands. 2016 , 45, 3244-74	159
1152	Oxygen reduction reaction catalysts used in microbial fuel cells for energy-efficient wastewater treatment: a review. 2016 , 3, 382-401	257
1151	Photocatalytic Cr(VI) reduction in metal-organic frameworks: A mini-review. 2016 , 193, 198-216	375
1150	Cobalt(II) compounds with acetone isonicotinoyl hydrazone tautomers: Syntheses and crystal structures of complexes with free donor atoms. 2016 , 448, 86-92	9
1149	One-pot assembly of metal/organic-acid sites on amine-functionalized ligands of MOFs for photocatalytic hydrogen peroxide splitting. 2016 , 52, 7110-3	24
1148	Anthracene-based indium metalåBrganic framework as a promising photosensitizer for visible-light-induced atom transfer radical polymerization. 2016 , 18, 3696-3702	35
1147	The role of metalâBrganic frameworks in a carbon-neutral energy cycle. 2016 , 1,	284
1146	Heterogeneous photoredox synthesis of N-hydroxy-oxazolidinones catalysed by metalâBrganic frameworks. 2016 , 6, 5647-5655	14
1145	Finely tuning MOFs towards high performance in C2H2 storage: synthesis and properties of a new MOF-505 analogue with an inserted amide functional group. 2016 , 52, 7241-4	110
1144	Classical density functional theory for gas separation in nanoporous materials and its application to CH4/H2 separation. 2016 , 149, 14-21	4
1143	Improving the stability of solar cells using metalâBrganic frameworks. 2016 , 4, 7930-7935	15
1142	Continuous broadband emission from a metalâBrganic framework as a human-friendly white light source. 2016 , 4, 4728-4732	27
1141	Efficient photocatalytic degradation of rhodamine 6G with a quantum dot-metal organic framework nanocomposite. 2016 , 154, 620-627	44
1140	UiO-66-polyether block amide mixed matrix membranes for CO2 separation. 2016 , 513, 155-165	205
1139	UTSA-74: A MOF-74 Isomer with Two Accessible Binding Sites per Metal Center for Highly Selective Gas Separation. 2016 , 138, 5678-84	351

1138	A facile fabrication of electrodeposited luminescent MOF thin films for selective and recyclable sensing of nitroaromatic explosives. 2016 , 141, 4502-10	88
1137	Effect of catalyst loading on hydrogen storage capacity of ZIF-8/graphene oxide doped with Pt or Pd via spillover. 2016 , 229, 68-75	36
1136	A Robust Open Framework Formed by Decavanadate Clusters and Copper(II) Complexes of Macrocyclic Polyamines: Permanent Microporosity and Catalytic Oxidation of Cycloalkanes. 2016 , 55, 4970-9	37
1135	Imparting Functionality to MOF Nanoparticles by External Surface Selective Covalent Attachment of Polymers. 2016 , 28, 3318-3326	157
1134	One pot synthesis of Zrâdarboxylate porous hybrid materials: orthogonal Câd heterocoupling and carboxylateâd assembly. 2016 , 6, 42307-42312	8
1133	Spin-crossover complex encapsulation within a magnetic metal-organic framework. 2016 , 52, 7360-3	33
1132	Rational construction of functional molybdenum (tungsten)-copper-sulfur coordination oligomers and polymers from preformed cluster precursors. 2016 , 45, 4995-5019	94
1131	Adsorptive removal of nitrogen-containing compounds from a model fuel using a metalâBrganic framework having a free carboxylic acid group. 2016 , 299, 236-243	55
1130	CO2 Adsorption in M-IRMOF-10 (M = Mg, Ca, Fe, Cu, Zn, Ge, Sr, Cd, Sn, Ba). 2016 , 120, 12819-12830	18
1129	Chiral Hexahalogenated 4,4'-Bipyridines. 2016 , 81, 4576-87	15
1129	Chiral Hexahalogenated 4,4'-Bipyridines. 2016, 81, 4576-87 Dynamics of H2 adsorbed in porous materials as revealed by computational analysis of inelastic neutron scattering spectra. 2016, 18, 17141-58	15 16
	Dynamics of H2 adsorbed in porous materials as revealed by computational analysis of inelastic	
1128	Dynamics of H2 adsorbed in porous materials as revealed by computational analysis of inelastic neutron scattering spectra. 2016 , 18, 17141-58 Diffusion as a function of guest molecule length and functionalization in flexible metalâBrganic	16
1128	Dynamics of H2 adsorbed in porous materials as revealed by computational analysis of inelastic neutron scattering spectra. 2016 , 18, 17141-58 Diffusion as a function of guest molecule length and functionalization in flexible metalâBrganic frameworks. 2016 , 3, 355-361 Solvent-Induced Galvanoluminescence of MetalâDrganic Framework Electroluminescent Diodes.	16
1128 1127 1126	Dynamics of H2 adsorbed in porous materials as revealed by computational analysis of inelastic neutron scattering spectra. 2016 , 18, 17141-58 Diffusion as a function of guest molecule length and functionalization in flexible metalâBrganic frameworks. 2016 , 3, 355-361 Solvent-Induced Galvanoluminescence of MetalâDrganic Framework Electroluminescent Diodes. 2016 , 120, 11045-11048 From Micro to Nano: A Toolbox for Tuning Crystal Size and Morphology of Benzotriazolate-Based	16 11 12
1128 1127 1126 1125	Dynamics of H2 adsorbed in porous materials as revealed by computational analysis of inelastic neutron scattering spectra. 2016, 18, 17141-58 Diffusion as a function of guest molecule length and functionalization in flexible metalâBrganic frameworks. 2016, 3, 355-361 Solvent-Induced Galvanoluminescence of MetalâDrganic Framework Electroluminescent Diodes. 2016, 120, 11045-11048 From Micro to Nano: A Toolbox for Tuning Crystal Size and Morphology of Benzotriazolate-Based MetalâDrganic Frameworks. 2016, 16, 3190-3197 A Microporous Metal-Organic Framework with Lewis Basic Nitrogen Sites for High C2H2 Storage	16 11 12 44
1128 1127 1126 1125 1124	Dynamics of H2 adsorbed in porous materials as revealed by computational analysis of inelastic neutron scattering spectra. 2016, 18, 17141-58 Diffusion as a function of guest molecule length and functionalization in flexible metalâBrganic frameworks. 2016, 3, 355-361 Solvent-Induced Galvanoluminescence of MetalâDrganic Framework Electroluminescent Diodes. 2016, 120, 11045-11048 From Micro to Nano: A Toolbox for Tuning Crystal Size and Morphology of Benzotriazolate-Based MetalâDrganic Frameworks. 2016, 16, 3190-3197 A Microporous Metal-Organic Framework with Lewis Basic Nitrogen Sites for High C2H2 Storage and Significantly Enhanced C2H2/CO2 Separation at Ambient Conditions. 2016, 55, 7214-8	16 11 12 44 100

1120	Photocatalytic Metal-Organic Frameworks for Selective 2,2,2-Trifluoroethylation of Styrenes. 2016 , 138, 12320-3	102
1119	Chiral and Achiral Copper(II) Carboxyphosphonates Supramolecular Structures: Synthesis, Structures, Surface Photovoltage, and Magnetic Properties. 2016 , 16, 5624-5635	22
1118	Nanoreactor Based on Macroporous Single Crystals of Metal-Organic Framework. 2016 , 12, 5702-5709	57
1117	Charge Control in Two Isostructural Anionic/Cationic Co Coordination Frameworks for Enhanced Acetylene Capture. 2016 , 22, 15035-15041	25
1116	Porous Co3O4 nanoparticles derived from a Co(II)-cyclohexanehexacarboxylate metalâbrganic framework and used in a supercapacitor with good cycling stability. 2016 , 6, 86447-86454	22
1115	Mechanochemical Immobilisation of Metathesis Catalysts in a Metal-Organic Framework. 2016 , 22, 15437-154	14 3 7
1114	Single-Site Cobalt Catalysts at New Zr8(🛭-O)8(🗈-OH)4 Metal-Organic Framework Nodes for Highly Active Hydrogenation of Alkenes, Imines, Carbonyls, and Heterocycles. 2016 , 138, 12234-42	120
1113	Linear Chains of Magnetic Ions Stacked with Variable Distance: Ferromagnetic Ordering with a Curie Temperature above 20 K. 2016 , 55, 12683-7	10
1112	Thermal and Magnetic Diversity in the Behaviour of the Cull-bdc-bpa System: 1D, 2D and Interpenetrated 3D Frameworks. 2016 , 2016, 4783-4791	2
1111	Crystal Dynamics in Multi-stimuli-Responsive Entangled Metal-Organic Frameworks. 2016 , 22, 15864-15873	39
1110	Temperature-Dependent Supramolecular Isomerism of Lutetium-Aminoterephthalate Metalâ®rganic Frameworks: Synthesis, Crystallography, and Physical Properties. 2016 , 16, 5636-5645	20
1109	Ranking of MOF Adsorbents for CO2 Separations: A Molecular Simulation Study. 2016 , 55, 10404-10419	43
1108	Evaluating topologically diverse metalâBrganic frameworks for cryo-adsorbed hydrogen storage. 2016 , 9, 3279-3289	151
1107	Templating of carbon in zeolites under pressure: synthesis of pelletized zeolite templated carbons with improved porosity and packing density for superior gas (CO2 and H2) uptake properties. 2016 , 4, 14254-14266	28
1106	Diverse CdII coordination complexes derived from bromide isophthalic acid binding with auxiliary N-donor ligands. 2016 , 244, 12-19	4
1105	Functionalizing the Defects: Postsynthetic Ligand Exchange in the Metal Organic Framework UiO-66. 2016 , 28, 7190-7193	125
1104	Reticular Chemistry at Its Best: Directed Assembly of Hexagonal Building Units into the Awaited Metal-Organic Framework with the Intricate Polybenzene Topology, pbz-MOF. 2016 , 138, 12767-12770	80
1103	Three new 3D metal-organic frameworks based on the tetrakis(imidazol-1-ylmethyl)methane and 1,4-benzenedicarboxylic acid ligands with transition metal (Zn/Cd/Co) and properties research.	7

1102	Three unique MOFs constructed by 1,4-bis(4-pyridyl)-2,3-diaza-1,3-butadiene and dicarboxylates: From rhombic tetrameric zinc(II) 2D layer to 2D+2D-BD polycatenated frameworks. 2016 , 73, 161-165	9
1101	Water linked 3D coordination polymers: Syntheses, structures and applications. 2016 , 244, 151-159	11
1100	A convenient synthesis of highly luminescent lanthanide 1D-zigzag coordination chains based only on 4,4?-bipyridine as connector. 2016 , 119, 371-376	13
1099	Three-Dimensional Co- and Mn-MOFs Containing a C2h-Symmetric Terphenyl-3,3?-dicarboxylate Linker and Their Magnetic Properties. 2016 , 2016, 4891-4897	5
1098	UiO-66-Type Metal-Organic Framework with Free Carboxylic Acid: Versatile Adsorbents via H-bond for Both Aqueous and Nonaqueous Phases. 2016 , 8, 27394-27402	93
1097	Heterogeneous self-supported dirhodium(II) catalysts with high catalytic efficiency in cyclopropanation âla structural study. 2016 , 6, 7830-7840	16
1096	MOF-199: A simple strategy for improvement of crystallinity and photovoltaic property. 2016 , 455, 60-65	9
1095	UiO-66 and its Br-modified derivates for elemental mercury removal. 2016 , 320, 556-563	57
1094	Fast adsorption and removal of 2-methyl-4-chlorophenoxy acetic acid from aqueous solution with amine functionalized zirconium metalâBrganic framework. 2016 , 6, 96339-96346	22
1093	Highly chemiluminescent metal-organic framework of type MIL-101(Cr) for detection of hydrogen peroxide and pyrophosphate ions. 2016 , 183, 3151-3157	29
1092	Flexible Porous Coordination Polymers from Divergent Photoluminescent 4-Oxo-1,8-naphthalimide Ligands. 2016 , 55, 11570-11582	20
1091	Nanosizing a Metal-Organic Framework Enzyme Carrier for Accelerating Nerve Agent Hydrolysis. 2016 , 10, 9174-9182	157
1090	Metal-organic frameworks as selectivity regulators for hydrogenation reactions. 2016 , 539, 76-80	925
1089	Lanthanide Metal-Organic Frameworks for Luminescent Applications. 2016 , 50, 243-268	18
1088	Two Cd(II) coordination polymers based on 3,6-bis(imidazol-1-yl)carbazole: Syntheses, structures and photocatalytic properties. 2016 , 73, 12-15	16
1087	High-throughput computational screening of 137953 metalâBrganic frameworks for membrane separation of a CO2/N2/CH4 mixture. 2016 , 4, 15904-15912	70
1086	Crystal Structure, Thermal Properties, and Shock-Wave-Induced Nucleation of 1,2-Bis(phenylethynyl)benzene. 2016 , 16, 6148-6151	4
1085	Two New (3,6)-Connected MOFs with eea Topology and High CH4 Uptake. 2016 , 16, 6156-6159	7

1084	Nanostructure array assisted aggregation-based growth of a Co-MOF-74 membrane on a Ni-foam substrate for gas separation. 2016 , 6, 94177-94183	15
1083	Self-Limiting Growth Nanoscale Coordination Polymers for Fluorescence and Magnetic Resonance Dual-Modality Imaging. 2016 , 26, 8463-8470	34
1082	Two-dimensional metal-organic framework nanosheets as a matrix for laser desorption/ionization of small molecules and monitoring enzymatic reactions at high salt concentrations. 2016 , 52, 12984-12987	57
1081	A Cr(salen)-based metal-organic framework as a versatile catalyst for efficient asymmetric transformations. 2016 , 52, 13167-13170	42
1080	CNTs grown on nanoporous carbon from zeolitic imidazolate frameworks for supercapacitors. 2016 , 52, 13016-13019	94
1079	Isophthalate-Hydrazone 2D Zinc-Organic Framework: Crystal Structure, Selective Adsorption, and Tuning of Mechanochemical Synthetic Conditions. 2016 , 55, 9663-9670	23
1078	MOF-Derived Flower-like MoS@TiO Nanohybrids with Enhanced Activity for Hydrogen Evolution. 2016 , 8, 26794-26800	126
1077	Screening of Copper Open Metal Site MOFs for Olefin/Paraffin Separations Using DFT-Derived Force Fields. 2016 , 120, 23044-23054	45
1076	Two Dimensional Host-Guest Metal-Organic Framework Sensor with High Selectivity and Sensitivity to Picric Acid. 2016 , 8, 21472-9	110
1075	Exceptional gravimetric and volumetric CO2 uptake in a palladated NbO-type MOF utilizing cooperative acidic and basic, metal-CO2 interactions. 2016 , 52, 10559-62	35
1074	Template-Directed Synthesis of Porous and Protective CoreâBhell Bionanoparticles. 2016 , 128, 10849-10854	28
1073	Template-Directed Synthesis of Porous and Protective Core-Shell Bionanoparticles. 2016 , 55, 10691-6	95
1072	Toward Inexpensive Photocatalytic Hydrogen Evolution: A Nickel Sulfide Catalyst Supported on a High-Stability Metal-Organic Framework. 2016 , 8, 20675-81	121
1071	Spatially-controlled laser-induced decoration of 2D and 3D substrates with plasmonic nanoparticles. 2016 , 6, 75681-75685	11
1070	Cationic Ionic Liquids Organic Ligands Based Metal-Organic Frameworks for Fabrication of Core-Shell Microspheres for Hydrophilic Interaction Liquid Chromatography. 2016 , 8, 21632-9	32
1069	Nanostructuration of PEDOT in Porous Coordination Polymers for Tunable Porosity and Conductivity. 2016 , 138, 10088-91	152
1068	MOFs and their grafted analogues: regioselective epoxide ring-opening with Zr6 nodes. 2016 , 6, 6480-6484	22
1067	The synthesis of a bifunctional copper metal organic framework and its application in the aerobic oxidation/Knoevenagel condensation sequential reaction. 2016 , 45, 13917-24	56

1066	Vapor-Phase Deposition and Modification of Metal-Organic Frameworks: State-of-the-Art and Future Directions. 2016 , 22, 14452-60	64
1065	Structural Studies on a New Family of Chiral BioMOFs. 2016 , 16, 5571-5578	16
1064	A Hydrophobic Metal-Organic Framework Based on Cubane-Type [Co4 (B -F)3 (B -SO4)](3+) Clusters for Gas Storage and Adsorption Selectivity of Benzene over Cyclohexane. 2016 , 22, 11283-90	27
1063	An Ultrahydrophobic Fluorous Metal-Organic Framework Derived Recyclable Composite as a Promising Platform to Tackle Marine Oil Spills. 2016 , 22, 10937-43	75
1062	AIE-active tetraphenylethene functionalized metal-organic framework for selective detection of nitroaromatic explosives and organic photocatalysis. 2016 , 52, 11284-11287	116
1061	Dual structure evolution of a Ag(i) supramolecular framework triggered by anion-exchange: replacement of terminal ligand and switching of network interpenetration degree. 2016 , 52, 11060-3	22
1060	Magnetic Induction Swing Adsorption: An Energy Efficient Route to Porous Adsorbent Regeneration. 2016 , 28, 6219-6226	34
1059	High Methanol Uptake Capacity in Two New Series of MetalâDrganic Frameworks: Promising Materials for Adsorption-Driven Heat Pump Applications. 2016 , 28, 6243-6249	36
1058	Complete Transmetalation in a Metal-Organic Framework by Metal Ion Metathesis in a Single Crystal for Selective Sensing of Phosphate Ions in Aqueous Media. 2016 , 55, 11528-32	106
1057	Complete Transmetalation in a MetalâDrganic Framework by Metal Ion Metathesis in a Single Crystal for Selective Sensing of Phosphate Ions in Aqueous Media. 2016 , 128, 11700-11704	21
1056	Two Principles of Reticular Chemistry Uncovered in a Metal-Organic Framework of Heterotritopic Linkers and Infinite Secondary Building Units. 2016 , 138, 10826-9	63
1055	ZIF-derived in situ nitrogen decorated porous carbons for CO2 capture. 2016 , 3, 1112-1118	36
1054	Surfactant-assisted ZnO processing as a versatile route to ZIF composites and hollow architectures with enhanced dye adsorption. 2016 , 4, 13509-13518	33
1053	Photoluminescent Metal-Organic Frameworks for Gas Sensing. 2016 , 3, 1500434	228
1052	Postsynthetic Modification of Zirconium Metal-Organic Frameworks. 2016 , 2016, 4310-4331	146
1051	Understanding The Fascinating Origins of CO2 Adsorption and Dynamics in MOFs. 2016 , 28, 5829-5846	49
1050	Block Co-PolyMOCs by Stepwise Self-Assembly. 2016 , 138, 10708-15	51
1049	Pyrolytic synthesis and luminescence of porous lanthanide Eu-MOF. 2016 , 31, 190-4	9

1048	Application of Rigidity-Controlled Supramolecular Affinity Materials for the Gravimetric Detection of Hazardous and Illicit Compounds. 2016 , 81, 926-929	13
1047	Size-selective epoxidation of olefins in two new metal-organic framework constructed from six-coordinated tetranuclear Cu(II) SBUs. 2016 , 232, 167-173	6
1046	Carbon Nanotubes Rooted in Porous Ternary Metal Sulfide@N/S-Doped Carbon Dodecahedron: Bimetal-Organic-Frameworks Derivation and Electrochemical Application for High-Capacity and Long-Life Lithium-Ion Batteries. 2016 , 26, 8345-8353	174
1045	Four new 3D metal-organic frameworks constructed by the asymmetrical pentacarboxylate: gas sorption behaviour and magnetic properties. 2016 , 45, 15473-15480	28
1044	Porous Coordination Polymers Containing Pyridine-3,5-Bis(5-azabenzimidazole): Exploration of Water Sorption, Selective Dye Adsorption, and Luminescent Properties. 2016 , 16, 5976-5984	41
1043	Nanoscale Polymer Metal-Organic Framework Hybrids for Effective Photothermal Therapy of Colon Cancers. 2016 , 28, 9320-9325	157
1042	Chlorin-Based Nanoscale Metal-Organic Framework Systemically Rejects Colorectal Cancers via Synergistic Photodynamic Therapy and Checkpoint Blockade Immunotherapy. 2016 , 138, 12502-10	347
1041	In-situ synthesis of SiO2@MOF composites for high-efficiency removal of aniline from aqueous solution. 2016 , 390, 506-512	30
1040	Construction of Noninterpenetrating and Interpenetrating (4-Fold and 8-Fold) 3-D Cd(II) Networks with Tris(1,2,4-triazol-4-yl)phenyl)amine Modulated by Aromatic Dicarboxylate Coligands. 2016 , 16, 5859-586	8 ³⁵
1039	Electrically Driven White Light Emission from Intrinsic Metal-Organic Framework. 2016 , 10, 8366-75	75
1038	A metal-organic framework with rod secondary building unit based on the Boerdijk-Coxeter helix. 2016 , 52, 11543-11546	10
1037	Potential of microporous metalâBrganic frameworks for separation of hydrocarbon mixtures. 2016 , 9, 3612-3641	428
1036	Modulating the optical properties of the AIE fluophor confined within UiO-66's nanochannels for chemical sensing. 2016 , 8, 17489-17495	24
1035	In Situ Atomic/Molecular Layer-by-Layer Deposition of InorganicâDrganic Coordination Network Thin Films from Gaseous Precursors. 2016 , 28, 6260-6265	49
1034	Tetragonal versus Hexagonal: Structure-Dependent Catalytic Activity of Co/Zn Bimetallic Metal-Organic Frameworks. 2016 , 55, 9250-7	14
1033	Water-based synthesis and characterisation of a new Zr-MOF with a unique inorganic building unit. 2016 , 52, 12698-12701	45
1032	Construction of Pt complex within Zr-based MOF and its application for hydrogen production under visible-light irradiation. 2016 , 42, 7679-7688	27
1031	Vibrational analysis and crystal structure of two new 1D Cull and Coll coordination polymers, involving the ligands 2,5-dihydroxyterephthalate and glutarate. 2016 , 86, 302-310	1

1030 Hydrogen adsorption in azolium and metalated N-heterocyclic carbene containing MOFs. 2016, 18, 7003-7010 14 Snapshots of encapsulated porphyrins and heme enzymes in metal-organic materials: A prevailing 18 1029 paradigm of heme mimicry. 2016, 326, 135-163 Proton Conducting Self-Assembled Metal-Organic Framework/Polyelectrolyte Hollow Hybrid 1028 34 Nanostructures. 2016, 8, 23015-21 A novel 3-D microporous magnesium-based metalåBrganic framework with open metal sites. 2016, 1027 12 6,81485-81490 1026 MetalâDrganic Framework for Emulsifying Carbon Dioxide and Water. 2016, 128, 11544-11548 3 Efficient and selective oxidation of sulfur mustard using singlet oxygen generated by a 109 pyrene-based metal-organic framework. 2016, 4, 13809-13813 1024 Self-templating synthesis of hollow spheres of MOFs and their derived nanostructures. 2016, 52, 11591-4 75 Controllable synthesis of ultra-small metal-organic framework nanocrystals composed of copper(ii) 1023 19 carboxylates. 2016, 8, 16725-16732 Carbon Dioxide Capture and Release by Anions with Solvent-Dependent Behaviour: A Theoretical 1022 10 Study. 2016, 22, 14056-14063 Conversion of 5-hydroxymethylfurfural into 5-ethoxymethylfurfural and ethyl levulinate catalyzed 81 by MOF-based heteropolyacid materials. 2016, 18, 5884-5889 Ultrasmall Tin Nanodots Embedded in Nitrogen-Doped Mesoporous Carbon: 1020 Metal-Organic-Framework Derivation and Electrochemical Application as Highly Stable Anode for 60 Lithium Ion Batteries. 2016, 217, 123-131 Three Highly Stable Cobalt MOFs Based on "Y"-Shaped Carboxylic Acid: Synthesis and Absorption of 1019 63 Anionic Dyes. 2016, 55, 8816-21 1018 Porosity in MetalâDrganic Compounds. 2016, 200-219 10 Selective and Efficient Removal of Mercury from Aqueous Media with the Highly Flexible Arms of a 33 BioMOF. 2016, 128, 11333-11338 1016 Metal-Organic Framework for Emulsifying Carbon Dioxide and Water. 2016, 55, 11372-6 32 Selective and Efficient Removal of Mercury from Aqueous Media with the Highly Flexible Arms of a 1015 134 BioMOF. 2016, 55, 11167-72 1014 A review of metal organic resins for environmental applications. **2016**, 320, 234-240 14 A Highly Efficient Single-Chain Metal-Organic Nanoparticle Catalyst for Alkyne-Azide "Click" 1013 132 Reactions in Water and in Cells. 2016, 138, 11077-80

1012	Unraveling the sub-nanoscopic structure at interphase in a poly(vinyl alcohol)-MOF nanocomposite, and its role in thermo-mechanical properties. 2016 , 18, 25434-25442	9
1011	Nanoscale deposition of metalâBrganic framework films on polymer nanosheets. 2016 , 6, 74349-74353	3
1010	ZIF-8 gate tuning via terminal group modification: A computational study. 2016 , 658, 270-275	7
1009	Ni-Decorated Molybdenum Carbide Hollow Structure Derived from Carbon-Coated MetalâDrganic Framework for Electrocatalytic Hydrogen Evolution Reaction. 2016 , 28, 6313-6320	174
1008	Room-temperature synthesis of bimetallic Coâ�n based zeolitic imidazolate frameworks in water for enhanced CO2 and H2 uptakes. 2016 , 4, 14932-14938	104
1007	Nanoporous Transparent MOF Glasses with Accessible Internal Surface. 2016 , 138, 10818-21	53
1006	Nanostructured Ni compounds as electrode materials towards high-performance electrochemical capacitors. 2016 , 4, 14509-14538	77
1005	Coordinative alignment of molecules in chiral metal-organic frameworks. <i>Science</i> , 2016 , 353, 808-11 33.3	211
1004	Fine-Tuning Porous Metal-Organic Frameworks for Gas Separations at Will. 2016 , 1, 669-671	25
1003	Emerging Applications of MetalâDrganic Frameworks and Covalent Organic Frameworks. 2016 , 28, 8079-808 ⁻	1 94
	Emerging Applications of MetalâDrganic Frameworks and Covalent Organic Frameworks. 2016, 28, 8079-808. High MOF loading in mixed-matrix membranes utilizing styrene/butadiene copolymers. 2016, 52, 14376-1437.	
1002	High MOF loading in mixed-matrix membranes utilizing styrene/butadiene copolymers. 2016 , 52, 14376-1437 MetalâBrganic framework photophysics: Optoelectronic devices, photoswitches, sensors, and	9 ₃₂
1002	High MOF loading in mixed-matrix membranes utilizing styrene/butadiene copolymers. 2016 , 52, 14376-1437 MetalâBrganic framework photophysics: Optoelectronic devices, photoswitches, sensors, and photocatalysts. 2016 , 41, 890-896 New rht-Type Metal-Organic Frameworks Decorated with Acylamide Groups for Efficient Carbon	932
1002	High MOF loading in mixed-matrix membranes utilizing styrene/butadiene copolymers. 2016, 52, 14376-1437 MetalâBrganic framework photophysics: Optoelectronic devices, photoswitches, sensors, and photocatalysts. 2016, 41, 890-896 New rht-Type Metal-Organic Frameworks Decorated with Acylamide Groups for Efficient Carbon Dioxide Capture and Chemical Fixation from Raw Power Plant Flue Gas. 2016, 8, 31746-31756 Fabrication of functional hollow microspheres constructed from MOF shells: Promising drug	932 47 70
1002 1001 1000	High MOF loading in mixed-matrix membranes utilizing styrene/butadiene copolymers. 2016, 52, 14376-1437 MetalâBrganic framework photophysics: Optoelectronic devices, photoswitches, sensors, and photocatalysts. 2016, 41, 890-896 New rht-Type Metal-Organic Frameworks Decorated with Acylamide Groups for Efficient Carbon Dioxide Capture and Chemical Fixation from Raw Power Plant Flue Gas. 2016, 8, 31746-31756 Fabrication of functional hollow microspheres constructed from MOF shells: Promising drug delivery systems with high loading capacity and targeted transport. 2016, 6, 37705	9 ₃₂ 47 70 84
1002 1001 1000 999 998	High MOF loading in mixed-matrix membranes utilizing styrene/butadiene copolymers. 2016, 52, 14376-1437 MetalâBrganic framework photophysics: Optoelectronic devices, photoswitches, sensors, and photocatalysts. 2016, 41, 890-896 New rht-Type Metal-Organic Frameworks Decorated with Acylamide Groups for Efficient Carbon Dioxide Capture and Chemical Fixation from Raw Power Plant Flue Gas. 2016, 8, 31746-31756 Fabrication of functional hollow microspheres constructed from MOF shells: Promising drug delivery systems with high loading capacity and targeted transport. 2016, 6, 37705 Structures of Metal-Organic Frameworks with Rod Secondary Building Units. 2016, 116, 12466-12535	9 ₃₂ 47 70 84 570

994	A unique (3,10)-connected magnesium/nickel-based metalâbrganic framework constructed from an unusual kgd supermolecular building layer via mixed linkers and solid solution approach. 2016 , 18, 8358-8361	3
993	One-pot synthesis of nanoscale carbon dots-embedded metalâBrganic frameworks at room temperature for enhanced chemical sensing. 2016 , 4, 15880-15887	87
992	Ferroelectricity in MetalâØrganic Frameworks: Characterization and Mechanisms. 2016 , 2016, 4332-4344	70
991	Template-based Synthesis of a Formate Metal-Organic Framework/Activated Carbon Fiber Composite for High-performance Methane Adsorptive Separation. 2016 , 11, 3014-3017	13
990	Synthesis, Structure, and Properties of a Series of Chiral Coordination Polymers Based on (R)-4-(4-(1-Carboxyethoxy)phenoxy)-3-chlorobenzoic Acid. 2016 , 16, 5669-5677	16
989	Heterogeneous Sensitization of Metal-Organic Framework Driven Metal@Metal Oxide Complex Catalysts on an Oxide Nanofiber Scaffold Toward Superior Gas Sensors. 2016 , 138, 13431-13437	268
988	Toward polarizable AMOEBA thermodynamics at fixed charge efficiency using a dual force field approach: application to organic crystals. 2016 , 18, 30313-30322	6
987	Fabrication and Photoluminescence Property of ZnO Nanoparticle/Metalâ©rganic Framework Hybrid Material. 2016 , 45, 388-390	2
986	Palladium(II)@Zirconium-Based Mixed-Linker MetalâDrganic Frameworks as Highly Efficient and Recyclable Catalysts for Suzuki and Heck Cross-Coupling Reactions. 2016 , 8, 3261-3271	40
985	Synthesis of large and uniform Cu3TCPP truncated quadrilateral nano-flake and its humidity sensing properties. 2016 , 6, 88991-88995	11
984	Mono- and multifold Cât coupling reactions catalyzed by a palladium complex encapsulated in MIL-Cr as a three dimensional nano reactor. 2016 , 6, 92463-92472	10
983	Thermodynamic Insight in the High-Pressure Behavior of UiO-66: Effect of Linker Defects and Linker Expansion. 2016 , 28, 5721-5732	68
982	Influence of Water on the Chemistry and Structure of the MetalâDrganic Framework Cu3(btc)2. 2016 , 120, 17323-17333	45
981	Non-isothermal crystallization kinetics, thermal degradation behavior and mechanical properties of poly(lactic acid)/MOF composites prepared by melt-blending methods. 2016 , 6, 71461-71471	36
980	Cobalt-based metal coordination polymers with 4,4?-bipyridinyl groups: highly efficient catalysis for one-pot synthesis of 3,4-dihydropyrimidin-2(1H)-ones under solvent-free conditions. 2016 , 30, 1009-1021	15
979	Hydrated Proton-Conductive Metal-Organic Frameworks. 2016 , 81, 691-701	83
978	Alkaline earth-based coordination polymers derived from a cyclotriphosphazene-functionalized hexacarboxylate. 2016 , 242, 47-54	11
977	Facile Separation of Regioisomeric Compounds by a Heteronuclear Organometallic Capsule. 2016 , 138, 10700-7	78

976	Effect of noncovalent interactions on Ag(I)/Cu(II) supramolecular architecture for dual-functional luminescence and semiconductive properties. 2016 , 18, 6411-6424	7
975	Liquid exfoliation of alkyl-ether functionalised layered metal-organic frameworks to nanosheets. 2016 , 52, 10474-7	78
974	Exploring the Flexibility of MIL-47(V)-Type Materials Using Force Field Molecular Dynamics Simulations. 2016 , 120, 14934-14947	34
973	Single-Site Heterogeneous Catalysts for Olefin Polymerization Enabled by Cation Exchange in a Metal-Organic Framework. 2016 , 138, 10232-7	132
972	Selective gas capture via kinetic trapping. 2016 , 18, 21760-6	5
971	Toward Design Rules for Enzyme Immobilization in Hierarchical Mesoporous Metal-Organic Frameworks. 2016 , 1, 154-169	217
970	Sulfonated metal organic framework loaded on iron oxide nanoparticles as a new sorbent for the magnetic solid phase extraction of cadmium from environmental water samples. 2016 , 8, 6337-6346	32
969	Ionothermal synthesis, magnetic transformation and hydrationâdehydration properties of Co(II)-based coordination polymers. 2016 , 6, 71952-71957	3
968	Metal-organic framework MIL-101 as sorbent based on double-pumps controlled on-line solid-phase extraction coupled with high-performance liquid chromatography for the determination of flavonoids in environmental water samples. 2016 , 37, 2478-2486	6
967	A Novel CuxO Nanoparticles@ZIF-8 Composite Derived from Core-Shell Metal-Organic Frameworks for Highly Selective Electrochemical Sensing of Hydrogen Peroxide. 2016 , 8, 20407-14	105
966	Coupling two enzymes into a tandem nanoreactor utilizing a hierarchically structured MOF. 2016 , 7, 6969-697	'3 154
965	Monolithic column incorporated with lanthanide metal-organic framework for capillary electrochromatography. 2016 , 1461, 171-8	24
964	Capturing neon - the first experimental structure of neon trapped within a metal-organic environment. 2016 , 52, 10048-51	8
963	Emerging Multifunctional Metal-Organic Framework Materials. 2016 , 28, 8819-8860	955
962	Metal Oxide Assisted Preparation of Core-Shell Beads with Dense Metal-Organic Framework Coatings for the Enhanced Extraction of Organic Pollutants. 2016 , 22, 11770-7	20
961	Water-Stable Metal-Organic Framework/Polymer Composites Compatible with Human Hepatocytes. 2016 , 8, 19343-52	36
960	Tailor-Made Stable Zr(IV)-Based Metal-Organic Frameworks for Laser Desorption/Ionization Mass Spectrometry Analysis of Small Molecules and Simultaneous Enrichment of Phosphopeptides. 2016 , 8, 20292-300	66
959	Influence of Co-adsorbates on CO2 induced phase transition in functionalized pillared-layered metalâBrganic frameworks. 2016 , 4, 12963-12972	21

958	A series of transition metalâbrganic frameworks: crystal structures, luminescence properties, and sensitizing for luminescent Ln(III) ions in aqueous solution. 2016 , 6, 69007-69015	9
957	Endocytosis Mechanism of Nano Metal-Organic Frameworks for Drug Delivery. 2016 , 5, 2261-70	59
956	In Situ Synthesis of Metal Sulfide Nanoparticles Based on 2D Metal-Organic Framework Nanosheets. 2016 , 12, 4669-74	88
955	In situ construction of carbon nanotubes/nitrogen-doped carbon polyhedra hybrids for supercapacitors. 2016 , 5, 132-138	57
954	Luminescent and Proton Conducting Lanthanide Coordination Networks Based On a Zwitterionic Tripodal Triphosphonate. 2016 , 55, 7414-24	45
953	A Mesoporous Indium Metal-Organic Framework: Remarkable Advances in Catalytic Activity for Strecker Reaction of Ketones. 2016 , 138, 9089-92	85
952	Applications of water stable metal-organic frameworks. 2016 , 45, 5107-34	737
951	Porous Molybdenum Phosphide Nano-Octahedrons Derived from Confined Phosphorization in UIO-66 for Efficient Hydrogen Evolution. 2016 , 55, 12854-8	269
950	Interpenetrated Cage Structures. 2016 , 22, 14104-25	96
949	A flexible metal-organic framework with double interpenetration for highly selective CO2 capture at room temperature. 2016 , 59, 965-969	22
948	Two highly porous single-crystalline zirconium-based metal-organic frameworks. 2016 , 59, 980-983	14
947	Recent advances of covalent organic frameworks in electronic and optical applications. 2016 , 27, 1383-1394	57
946	From Ordinary to Extraordinary: Insights into the Formation Mechanism and pH-Dependent Assembly/Disassembly of Nanojars. 2016 , 55, 7717-28	23
945	Metal-Organic Framework Coatings as Cytoprotective Exoskeletons for Living Cells. 2016 , 28, 7910-7914	192
944	Precise Modulation of the Breathing Behavior and Pore Surface in Zr-MOFs by Reversible Post-Synthetic Variable-Spacer Installation to Fine-Tune the Expansion Magnitude and Sorption Properties. 2016 , 128, 10086-10090	21
943	Porous Molybdenum Phosphide Nano-Octahedrons Derived from Confined Phosphorization in UIO-66 for Efficient Hydrogen Evolution. 2016 , 128, 13046-13050	86
942	Precise Modulation of the Breathing Behavior and Pore Surface in Zr-MOFs by Reversible Post-Synthetic Variable-Spacer Installation to Fine-Tune the Expansion Magnitude and Sorption Properties. 2016 , 55, 9932-6	97
941	Polarity Control at Interfaces: Quantifying Pseudo-solvent Effects in Nano-confined Systems. 2016 , 17, 2982-2986	21

940	Pressure-Dependent Structural and Chemical Changes in a MetalâDrganic Framework with One-Dimensional Pore Structure. 2016 , 28, 5336-5341	20
939	Advanced Fabrication Method for the Preparation of MOF Thin Films: Liquid-Phase Epitaxy Approach Meets Spin Coating Method. 2016 , 8, 20459-64	119
938	A New Approach to Non-Coordinating Anions: Lewis Acid Enhancement of Porphyrin Metal Centers in a Zwitterionic Metal-Organic Framework. 2016 , 138, 10293-8	67
937	Coordination Covalent Frameworks: A New Route for Synthesis and Expansion of Functional Porous Materials. 2016 , 8, 28424-28427	11
936	A drastic change in the superhydrophilic crystal porosities of metallosupramolecular structures via a slight change in pH. 2016 , 52, 12893-12896	13
935	On-surface molecular nanoarchitectonics: From self-assembly to directed assembly. 2016 , 55, 1102AA	35
934	Syntheses, Crystal Structure and Magnetic Properties of an Unprecedented One-Dimensional Coordination Polymer Derived from an {(NiL)2Ln} Node and a Pyrazine Spacer (H2L=N,N?-Bis(salicylidene)-1,3-propanediamine, Ln=Gd, Tb and Dy). 2016 , 1, 2722-2729	8
933	Selectivity Adsorptive Mechanism of Different Nitrophenols on UIO-66 and UIO-66-NH2 in Aqueous Solution. 2016 , 61, 3868-3876	57
932	Computational Study of First-Row Transition Metals Supported on MOF NU-1000 for Catalytic Acceptorless Alcohol Dehydrogenation. 2016 , 120, 24697-24705	32
931	Porous organic cages: soluble, modular and molecular pores. 2016 , 1,	404
931	Porous organic cages: soluble, modular and molecular pores. 2016 , 1, A metalâBrganic framework-derived bifunctional oxygen electrocatalyst. 2016 , 1,	404 1622
930	A metalâBrganic framework-derived bifunctional oxygen electrocatalyst. 2016 , 1, Modelling a Linker Mix-and-Match Approach for Controlling the Optical Excitation Gaps and Band	1622
930	A metalâBrganic framework-derived bifunctional oxygen electrocatalyst. 2016 , 1, Modelling a Linker Mix-and-Match Approach for Controlling the Optical Excitation Gaps and Band Alignment of Zeolitic Imidazolate Frameworks. 2016 , 55, 16012-16016	1622 47
930 929 928	A metalâBrganic framework-derived bifunctional oxygen electrocatalyst. 2016, 1, Modelling a Linker Mix-and-Match Approach for Controlling the Optical Excitation Gaps and Band Alignment of Zeolitic Imidazolate Frameworks. 2016, 55, 16012-16016 Quaterpyridines as Scaffolds for Functional Metallosupramolecular Materials. 2016, 116, 14620-14674	1622 47 38
930 929 928 927	A metalâBrganic framework-derived bifunctional oxygen electrocatalyst. 2016, 1, Modelling a Linker Mix-and-Match Approach for Controlling the Optical Excitation Gaps and Band Alignment of Zeolitic Imidazolate Frameworks. 2016, 55, 16012-16016 Quaterpyridines as Scaffolds for Functional Metallosupramolecular Materials. 2016, 116, 14620-14674 Boron Trifluoride Gas Adsorption in Metal-Organic Frameworks. 2016, 55, 12110-12113 MetalâBrganic framework channelled graphene composite membranes for H2/CO2 separation.	1622 47 38
930 929 928 927 926	A metalâBrganic framework-derived bifunctional oxygen electrocatalyst. 2016, 1, Modelling a Linker Mix-and-Match Approach for Controlling the Optical Excitation Gaps and Band Alignment of Zeolitic Imidazolate Frameworks. 2016, 55, 16012-16016 Quaterpyridines as Scaffolds for Functional Metallosupramolecular Materials. 2016, 116, 14620-14674 Boron Trifluoride Gas Adsorption in Metal-Organic Frameworks. 2016, 55, 12110-12113 MetalâBrganic framework channelled graphene composite membranes for H2/CO2 separation. 2016, 4, 18747-18752 ZIF-8 coated polyvinylidenefluoride (PVDF) hollow fiber for highly efficient separation of small dye	1622 47 38 9 58

(2016-2016)

922	Porous coordination polymer coatings fabricated from Cu3(BTC)2 ¹ BH2O with excellent superhydrophobic and superoleophilic properties. 2016 , 40, 10554-10559	6
921	MOF-templated nanoriceâfianosheet coreâfiatellite iron dichalcogenides by heterogeneous sulfuration for high-performance lithium ion batteries. 2016 , 4, 19179-19188	52
920	Direct in Situ Conversion of Metals into Metal-Organic Frameworks: A Strategy for the Rapid Growth of MOF Films on Metal Substrates. 2016 , 8, 32414-32420	44
919	A two-dimensional metal-organic framework composed of paddle-wheel cobalt clusters with permanent porosity. 2016 , 74, 98-101	9
918	Enabling Kinetic Light Hydrocarbon Separation via Crystal Size Engineering of ZIF-8. 2016 , 55, 12467-12476	36
917	Multivariable Modular Design of Pore Space Partition. 2016 , 138, 15102-15105	103
916	Minerals with metal-organic framework structures. 2016 , 2, e1600621	31
915	In silico discovery of metal-organic frameworks for precombustion CO capture using a genetic algorithm. 2016 , 2, e1600909	164
914	CopperâDrganic Framework Fabricated with CuS Nanoparticles: Synthesis, Electrical Conductivity, and Electrocatalytic Activities for Oxygen Reduction Reaction. 2016 , 128, 15527-15531	41
913	Copper-Organic Framework Fabricated with CuS Nanoparticles: Synthesis, Electrical Conductivity, and Electrocatalytic Activities for Oxygen Reduction Reaction. 2016 , 55, 15301-15305	135
912	Three transition metal cluster-based coordination polymers based on 1,4-naphthalenedicarboxylate and pyridine ligands. 2016 , 74, 16-21	39
911	Solvent- and Temperature-Induced Multiple Crystal Phases: Crystal Structure, Selective Adsorption, and Separation of Organic Dye in Three S-Containing {[Cd(MIPA)]n}nâlHomologues. 2016 , 16, 6363-6370	22
910	A Combined Energy-Force Fitting Procedure to Develop DFT-Based Force Fields. 2016 , 120, 26309-26319	3
909	A postsynthetically modified MOF hybrid as a ratiometric fluorescent sensor for anion recognition and detection. 2016 , 45, 18668-18675	47
908	Mechanized azobenzene-functionalized zirconium metal-organic framework for on-command cargo release. 2016 , 2, e1600480	150
907	Molecular Topologies and Architectures with Mechanical Bonds. 2016 , 347-470	O
906	Visible-Light Excited Luminescent Thermometer Based on Single Lanthanide Organic Frameworks. 2016 , 26, 8677-8684	143
905	A highly stable amino-coordinated MOF for unprecedented block off N adsorption and extraordinary CO/N separation. 2016 , 52, 13568-13571	28

904	Influence of functionalization of terephthalate linker on the catalytic activity of UiO-66 for epoxide ring opening. 2016 , 425, 332-339	42
903	High-internal-phase emulsions stabilized by metal-organic frameworks and derivation of ultralight metal-organic aerogels. 2016 , 6, 21401	59
902	Imparting amphiphobicity on single-crystalline porous materials. 2016 , 7, 13300	104
901	Drug delivery and controlled release from biocompatible metal-organic frameworks using mechanical amorphization. 2016 , 4, 7697-7707	100
900	A novel coordination polymer based on Co(ii) hexanuclear clusters with azide and carboxylate bridges: structure, magnetism and its application as a Li-ion battery anode. 2016 , 45, 19109-19116	30
899	[BMIM][PF] Incorporation Doubles CO Selectivity of ZIF-8: Elucidation of Interactions and Their Consequences on Performance. 2016 , 8, 30992-31005	89
898	Pentiptycene-Based Luminescent Cu (II) MOF Exhibiting Selective Gas Adsorption and Unprecedentedly High-Sensitivity Detection of Nitroaromatic Compounds (NACs). 2016 , 6, 20672	46
897	Polystyrene Sulfonate Threaded through a MetalâDrganic Framework Membrane for Fast and Selective Lithium-Ion Separation. 2016 , 128, 15344-15348	40
896	Cage-like Fe,Na-Germsesquioxanes: Structure, Magnetism, and Catalytic Activity. 2016 , 55, 15360-15363	31
895	Preparation of preferentially exposed poison-resistant Pt(111) nanoplates with a nitrogen-doped graphene aerogel. 2016 , 52, 13815-13818	17
894	A series of bis(pyridyl)-bis(amide)-modulated metal-1,2-phenylenediacetate coordination polymers: construction and selective dye adsorption. 2016 , 18, 9316-9324	14
893	Cage-like Fe,Na-Germsesquioxanes: Structure, Magnetism, and Catalytic Activity. 2016 , 128, 15586-15589	1
892	Pseudohalide-directed Assembly of Two Zinc(II) Coordination Polymers with a 3,4-Bis(3-pyridyl)-5-(4-pyridyl)-1,2,4-triazole Tecton. 2016 , 642, 1445-1449	1
891	A Postsynthetic Modified MOF Hybrid as Heterogeneous Photocatalyst for Phenethyl Alcohol and Reusable Fluorescence Sensor. 2016 , 55, 11831-11838	55
890	Synthesis and structure of Zr(iv)- and Ce(iv)-based CAU-24 with 1,2,4,5-tetrakis(4-carboxyphenyl)benzene. 2016 , 45, 18822-18826	64
889	A Multi-responsive Regenerable Europium-Organic Framework Luminescent Sensor for Fe , Cr Anions, and Picric Acid. 2016 , 22, 18769-18776	212
888	Selective Guest Inclusion in Oxalate-Based Iron(III) Magnetic Coordination Polymers. 2016 , 55, 11160-11169	5
887	Supramolecular metal-organic frameworks that display high homogeneous and heterogeneous photocatalytic activity for H2 production. 2016 , 7, 11580	135

886	Increased Thermal Conductivity in Metal-Organic Heat Carrier Nanofluids. 2016 , 6, 27805	16
885	An Efficient Synthesis Strategy for Metal-Organic Frameworks: Dry-Gel Synthesis of MOF-74 Framework with High Yield and Improved Performance. 2016 , 6, 28050	54
884	Adsorptive Removal of Pharmaceuticals and Personal Care Products from Water with Functionalized Metal-organic Frameworks: Remarkable Adsorbents with Hydrogen-bonding Abilities. 2016 , 6, 34462	142
883	Porous Metal-Organic Frameworks: Promising Materials for Methane Storage. 2016 , 1, 557-580	214
882	Novel and Facile Strategy for Controllable Synthesis of Multilayered CoreâBhell Zeolitic Imidazolate Frameworks. 2016 , 16, 6494-6498	37
881	Oxygen reduction reaction: A framework for success. 2016 , 1,	26
880	Multiscale Computational Study on the Adsorption and Separation of CO /CH and CO /H on Li -Doped Mixed-Ligand Metal-Organic Framework Zn (NDC) (diPyNI). 2016 , 17, 4124-4133	16
879	Zirconium-Based Porphyrinic Metal-Organic Framework (PCN-222): Enhanced Photoelectrochemical Response and Its Application for Label-Free Phosphoprotein Detection. 2016 , 88, 11207-11212	106
878	Hydrophobic Cobalt-Ethylimidazolate Frameworks: Phase-Pure Syntheses and Possible Application in Cleaning of Contaminated Water. 2016 , 55, 11362-11371	48
877	Metal-Organic Framework-Polymer Composite as a Highly Efficient Sorbent for Sulfonamide Adsorption and Desorption: Effect of Coordinatively Unsaturated Metal Site and Topology. 2016 , 32, 11465-11473	31
876	Toward Metal-Organic Framework-Based Solar Cells: Enhancing Directional Exciton Transport by Collapsing Three-Dimensional Film Structures. 2016 , 8, 30863-30870	74
875	Framework-Topology-Dependent Catalytic Activity of Zirconium-Based (Porphinato)zinc(II) MOFs. 2016 , 138, 14449-14457	151
874	Transformation of metal-organic frameworks for molecular sieving membranes. 2016 , 7, 11315	119
873	Covalent immobilization of metal-organic frameworks onto the surface of nylona new approach to the functionalization and coloration of textiles. 2016 , 6, 22796	26
872	A mixed-valent CuI/CuII metalâBrganic framework with selective chemical sensing properties. 2016 , 18, 8683-8687	13
871	Simulation Studies of Metalâ∏igand Self-Assembly. 2016 , 186-207	
870	Metal Substitution into Metal Organic Nanotubes: Impacts on Solvent Uptake and Stability. 2016 , 16, 7058-7066	10
869	Heterometallic Metalâ�rganic Frameworks of MOF-5 and UiO-66 Families: Insight from Computational Chemistry. 2016 , 120, 24885-24894	28

Theoretical Investigations of CO and H Sorption in Robust Molecular Porous Materials. 2016, 32, 11492-11505 14

867	Polarized three-photon-pumped laser in a single MOF microcrystal. 2016 , 7, 11087	129
866	Ferro- or antiferromagnetic interactions controlled by ditopic or chelating auxiliary ligands in 3D metal-organic frameworks. 2016 , 45, 18696-18703	6
865	Polystyrene Sulfonate Threaded through a Metal-Organic Framework Membrane for Fast and Selective Lithium-Ion Separation. 2016 , 55, 15120-15124	178
864	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
863	Copper Nanocrystals Encapsulated in Zr-based Metal-Organic Frameworks for Highly Selective CO Hydrogenation to Methanol. 2016 , 16, 7645-7649	285
862	MetalâBrganic frameworks for membrane-based separations. 2016 , 1,	434
861	Gold nanoparticles supported on nanoscale amine-functionalized MIL-101(Cr) as a highly active catalyst for epoxidation of styrene. 2016 , 6, 106856-106865	18
860	Creation of Low-Dimensional Materials Based on Coordination Compounds. 2016 , 67, 41-46	1
859	ZIF-8 SURMOF Membranes Synthesized by Au-Assisted Liquid Phase Epitaxy for Application in Gas Separation. 2016 , 88, 1798-1805	30
858	Complete multinuclear solid-state NMR of metal-organic frameworks: The case of ⊞Mg-formate. 2016 , 45A, e21410	9
857	Helical Coordination Polymers Based on A Tripodal N-donor Ligand. 2016 , 642, 128-133	2
856	BimetalâDrganic Framework: One-Step Homogenous Formation and its Derived Mesoporous Ternary Metal Oxide Nanorod for High-Capacity, High-Rate, and Long-Cycle-Life Lithium Storage. 2016 , 26, 1098-1103	153
855	Edge Functionalization of Graphene and Two-Dimensional Covalent Organic Polymers for Energy Conversion and Storage. 2016 , 28, 6253-61	120
854	Formation of Prussian-Blue-Analog Nanocages via a Direct Etching Method and their Conversion into Ni-Co-Mixed Oxide for Enhanced Oxygen Evolution. 2016 , 28, 4601-5	456
853	Mild and Selective Catalytic Hydrogenation of the C=C Bond in 毌Unsaturated Carbonyl Compounds Using Supported Palladium Nanoparticles. 2016 , 22, 7184-9	31
852	Mn-Based Two Dimensional Metal-Organic Framework Material from Benzimidazole-5,6-dicarboxylic Acid. 2016 , 34, 233-238	12
851	Exchange Method Using Acid-Solvent Synergy for MetalâDrganic Framework Synthesis (EASY-MOFs) Based on a Typical Pillar-Layered Parent Structure. 2016 , 2016, 1466-1469	5

850	Ratiometric Thermometer Based on a Lanthanoid Coordination Polymer. 2016 , 2016, 2984-2988	13
849	Thin Film Growth of nbo MOFs and their Integration with Electroacoustic Devices. 2016 , 26, 1699-1707	42
848	Metal-Organic Framework-Derived Honeycomb-Like Open Porous Nanostructures as Precious-Metal-Free Catalysts for Highly Efficient Oxygen Electroreduction. 2016 , 28, 6391-8	354
847	Metal-Organic Frameworks Help Conducting Polymers Optimize the Efficiency of the Oxygen Reduction Reaction in Neutral Solutions. 2016 , 3, 1600047	26
846	Zeolitic Imidazolate Framework/Graphene Oxide Hybrid Nanosheets as Seeds for the Growth of Ultrathin Molecular Sieving Membranes. 2016 , 128, 2088-2092	53
845	An Extremely Porous Hydrogen-Bonded Framework Composed of d-Penicillaminato Co(III)2Au(I)(3) Complex Anions and Aqua Cobalt(II) Cations: Formation and Stepwise Structural Transformation. 2016 , 11, 486-90	13
844	Water Purification: Adsorption over Metal-Organic Frameworks. 2016 , 34, 175-185	85
843	High-Pressure Raman and Calorimetry Studies of Vanadium(III) Alkyl Hydrides for Kubas-Type Hydrogen Storage. 2016 , 17, 822-8	1
842	Theoretical study of the interaction between molecular hydrogen and [MC60]+ complexes. 2016 , 6, 27447-27	'4 5 1
841	Spectroscopic interrogations of isostructural metalloporphyrin-based metal-organic frameworks with strongly and weakly coordinating guest molecules. 2016 , 69, 1780-1791	5
840	High hydroxide conductivity in a chemically stable crystalline metal-organic framework containing a water-hydroxide supramolecular chain. 2016 , 52, 8459-62	24
839	Carbon-coated rutile titanium dioxide derived from titanium-metal organic framework with enhanced sodium storage behavior. 2016 , 325, 25-34	70
838	Temperature-controlled Cd(II)âphosphonate coordination polymers: Syntheses, crystal structures, and luminescent properties. 2016 , 115, 54-60	13
837	A multifunctional lanthanide metal-organic framework supported by Keggin type polyoxometalates. 2016 , 45, 10141-5	9
836	Enhanced adsorptive desulfurization with flexible metal-organic frameworks in the presence of diethyl ether and water. 2016 , 52, 8667-70	27
835	Eight rare earth metal organic frameworks and coordination polymers from 2-nitroterephthlate: syntheses, structures, solid-state luminescence and an unprecedented topology. 2016 , 40, 7338-7349	18
834	Interaction of a symmetrical 黑即tetramethyl-cucurbit[6]uril with Ln3+: potential applications for isolation of lanthanides. 2016 , 18, 5028-5035	15
833	In situ growth of porphyrinic metalâBrganic framework nanocrystals on graphene nanoribbons for the electrocatalytic oxidation of nitrite. 2016 , 4, 10673-10682	85

832	Adsorptive desulfurization with metal-organic frameworks: A density functional theory investigation. 2016 , 387, 483-490	38
831	Design and synthesis of luminescent porous coordination polymers for chromaticity modulation, sensing of nitrobenzene and iodine encapsulation. 2016 , 18, 5639-5646	17
830	A helical peptide confined in metal-organic frameworks: Microscopic insight from molecular simulation. 2016 , 232, 138-142	6
829	Magnetic metal-organic frameworks for selective enrichment and exclusion of proteins for MALDI-TOF MS analysis. 2016 , 141, 4568-72	14
828	Moving Beyond Boron: The Emergence of New Linkage Chemistries in Covalent Organic Frameworks. 2016 , 49, 5297-5305	92
827	Linker Installation: Engineering Pore Environment with Precisely Placed Functionalities in Zirconium MOFs. 2016 , 138, 8912-9	214
826	Emerging adsorptive removal of azo dye by metal-organic frameworks. 2016 , 160, 30-44	159
825	Deposition Order Controls the First Stages of a MetalâDrganic Coordination Network on an Insulator Surface. 2016 , 120, 14730-14735	10
824	Metal-Organic Coordination Network Thin Film by Surface-Induced Assembly. 2016 , 32, 6648-55	21
823	Fe/Ni Metal-Organic Frameworks and Their Binder-Free Thin Films for Efficient Oxygen Evolution with Low Overpotential. 2016 , 8, 16736-43	163
822	A metal-organic framework/\balumina composite with a novel geometry for enhanced adsorptive separation. 2016 , 52, 8869-72	23
821	LanthanideâBrganic frameworks constructed from naphthalenedisulfonates: structure, luminescence and luminescence sensing properties. 2016 , 18, 5890-5900	25
820	ZnO as an efficient nucleating agent and morphology template for rapid, facile and scalable synthesis of MOF-46 and ZnO@MOF-46 with selective sensing properties and enhanced photocatalytic ability. 2016 , 6, 61784-61793	33
819	Inkjet-printed porphyrinic metalâBrganic framework thin films for electrocatalysis. 2016 , 4, 11094-11102	50
818	Cavity partition and functionalization of a [2+3] organic molecular cage by inserting polar P[double bond, length as m-dash]O bonds. 2016 , 52, 9267-70	14
817	Site Partition: Turning One Site into Two for Adsorbing CO2. 2016, 7, 2568-72	15
816	Encapsulation of a Nerve Agent Detoxifying Enzyme by a Mesoporous Zirconium Metal-Organic Framework Engenders Thermal and Long-Term Stability. 2016 , 138, 8052-5	240
815	Highly Porous Zirconium Metal-Organic Frameworks with ⊕UH3-like Topology Based on Elongated Tetrahedral Linkers. 2016 , 138, 8380-3	63

814	Emerging applications of metalâBrganic frameworks. 2016 , 18, 6532-6542	108
813	An alternative synthetic approach for macro-meso-microporous metal-organic frameworks via a "domain growth" mechanism. 2016 , 52, 8432-5	28
812	Amine-modified silica nanotubes and nanospheres: synthesis and CO2 sorption properties. 2016 , 3, 806-817	16
811	Experimental and computational study of ethane and ethylene adsorption in the MIL-53(Al) metal organic framework. 2016 , 230, 154-165	31
810	Metal-Organic Framework Colloids: Disassembly and Deaggregation. 2016 , 32, 6123-9	13
809	Suprachannel as a Radical Trap: Crystal Structure of Single Carbon Radicals. 2016 , 16, 3054-3058	13
808	Mixed-Metal Zeolitic Imidazolate Frameworks and their Selective Capture of Wet Carbon Dioxide over Methane. 2016 , 55, 6201-7	38
807	Supramolecular extended systems based on discrete paddle-wheel shaped metalâ\deninate entities. 2016 , 452, 222-228	3
806	Towards accurate porosity descriptors based on guest-host interactions. 2016 , 66, 91-8	1
805	Amino- and Sulfo-Bifunctionalized Metal-Organic Frameworks: One-Pot Tandem Catalysis and the Catalytic Sites. 2016 , 55, 5753-5	67
804	A series of coordination polymers assembled from p-terphenyl-2,2?,2???,5,4?,4???-hexcarboxylic acid and various flexible imidazole derivatives: Synthesis, structures and luminescent properties. 2016 , 450, 12-22	3
803	MetalâBrganic frameworks based on copper(I) iodide and pyridine-3,5-dicarboxylic acid: Synthesis, crystal structures and luminescent properties. 2016 , 115, 236-241	14
802	Remarkable adsorptive removal of nitrogen-containing compounds from a model fuel by a graphene oxide/MIL-101 composite through a combined effect of improved porosity and hydrogen bonding. 2016 , 314, 318-325	61
801	Computational assessment of MOF membranes for CH4/H2 separations. 2016 , 514, 313-321	29
800	CO2 Adsorption Sites in UTSA-16: Multitechnique Approach. 2016 , 120, 12068-12074	18
799	MOF-derived binary mixed metal/metal oxide @carbon nanoporous materials and their novel supercapacitive performances. 2016 , 18, 17941-8	61
798	The ubiquitous paddle-wheel building block in two-dimensional coordination polymers with square grid structure. 2016 , 69, 1957-1969	5
797	Selective Gold Recovery and Catalysis in a Highly Flexible Methionine-Decorated Metal-Organic Framework. 2016 , 138, 7864-7	136

796	Eight Zn(II) and Cd(II) complexes based on the aromatic C-centered triangular multicarboxylate and N-donor mixed ligands. 2016 , 6, 54993-54998	3
795	Encapsulation of curcumin in cyclodextrin-metal organic frameworks: Dissociation of loaded CD-MOFs enhances stability of curcumin. 2016 , 212, 485-94	98
794	Implications of sterically constrained n-butane oxidation reactions on the reaction mechanism and selectivity to 1-butanol. 2016 , 653, 11-21	4
793	Insights into the Dynamics of Grotthuss Mechanism in a Proton-Conducting Chiral bioMOF. 2016 , 28, 4608-4615	82
792	Decorating nanoporous ZIF-67-derived NiCo2O4 shells on a Co3O4 nanowire array core for battery-type electrodes with enhanced energy storage performance. 2016 , 4, 10878-10884	129
791	Structural phase transition in perovskite metal-formate frameworks: a Potts-type model with dipolar interactions. 2016 , 18, 18528-35	36
790	Diamine-appended metal-organic frameworks: enhanced formaldehyde-vapor adsorption capacity, superior recyclability and water resistibility. 2016 , 45, 11306-11	38
789	Synthesis of Zeolitic Imidazolate Framework Membrane Using Temperature-Switching Synthesis Strategy for Gas Separation. 2016 , 55, 7164-7170	17
788	Photophysics, Dynamics, and Energy Transfer in Rigid Mimics of GFP-based Systems. 2016 , 55, 7257-64	35
787	Convergent Synthesis of a MetalâDrganic Framework Supported Olefin Metathesis Catalyst. 2016 , 35, 2149-2155	22
786	Enhanced Hydrothermal Stability and Catalytic Performance of HKUST-1 by Incorporating Carboxyl-Functionalized Attapulgite. 2016 , 8, 16457-64	64
785	Solvothermally synthesized nanoporous hypercrosslinked polyaniline: studies of the gas sorption and charge storage behavior. 2016 , 6, 56421-56428	14
784	Little Thermodynamic Penalty for the Synthesis of Ultraporous Metal Organic Frameworks. 2016 , 17, 468-70	13
783	A Chiral 3 D Net with 2 D Cairo Pentagonal Tiling Projection in Site-Modified CuCN/CuSCN Networks. 2016 , 81, 724-727	3
782	A Three-Dimensional Tetraphenyllethene-Based MetalâDrganic Framework for Selective Gas Separation and Luminescence Sensing of Metal Ions. 2016 , 2016, 4470-4475	19
781	Computational Methods for MOF/Polymer Membranes. 2016 , 16, 703-18	13
780	Structure and Electronic Properties of a Continuous Random Network Model of an Amorphous Zeolitic Imidazolate Framework (a-ZIF). 2016 , 120, 15362-15368	47
779	Towards scalable and controlled synthesis of metalâBrganic framework materials using continuous flow reactors. 2016 , 1, 352-360	55

(2016-2016)

778	post-synthetic modifications. 2016 , 18, 5710-5717	7
777	Fischer-Tropsch synthesis over MOF-supported cobalt catalysts (Co@MIL-53(Al)). 2016 , 45, 12006-14	31
776	Submicrometric Magnetic Nanoporous Carbons Derived from Metal-Organic Frameworks Enabling Automated Electromagnet-Assisted Online Solid-Phase Extraction. 2016 , 88, 6990-5	34
775	Interfacial Design of Mixed Matrix Membranes for Improved Gas Separation Performance. 2016 , 28, 3399-405	243
774	Metal-Organic Framework-Based Nanomaterials for Electrocatalysis. 2016 , 6, 1600423	444
773	A Computational and Experimental Approach Linking Disorder, High-Pressure Behavior, and Mechanical Properties in UiO Frameworks. 2016 , 128, 2447-2451	20
772	Direct Fabrication of Free-Standing MOF Superstructures with Desired Shapes by Micro-Confined Interfacial Synthesis. 2016 , 128, 7232-7236	10
771	Isorecticular Synthesis of Dissectible Molecular Bamboo Tubes of Hexarhenium(I) Benzene-1,2,3,4,5,6-hexaolate Complexes. 2016 , 128, 8483-8487	4
770	A Computational and Experimental Approach Linking Disorder, High-Pressure Behavior, and Mechanical Properties in UiO Frameworks. 2016 , 55, 2401-5	80
769	Dopamine-Directed In-Situ and One-Step Synthesis of Au@Ag Core-Shell Nanoparticles Immobilized to a Metal-Organic Framework for Synergistic Catalysis. 2016 , 11, 2705-2709	27
768	Synchronizing Substrate Activation Rates in Multicomponent Reactions with Metal-Organic Framework Catalysts. 2016 , 22, 6654-65	28
767	Adsorptive removal of acid orange 7 from aqueous solution with metalâBrganic framework material, iron (III) trimesate. 2016 , 57, 3218-3226	13
766	Applications of metal-organic frameworks featuring multi-functional sites. 2016 , 307, 106-129	389
765	Synthesis and Crystal Structure Characterization of Thorium Trimesate Coordination Polymers. 2016 , 16, 1667-1678	23
764	Controlled partial interpenetration in metal-organic frameworks. 2016 , 8, 250-7	87
763	Metal ion induced porous HKUST-1 nano/microcrystals with controllable morphology and size. 2016 , 18, 4127-4132	25
762	A versatile strategy to fabricate MOFs/carbon material integrations and their derivatives for enhanced electrocatalysis. 2016 , 6, 7728-7735	21
761	Porosity in metal-organic framework glasses. 2016 , 52, 3750-3	50

760	Exploration of Gate-Opening and Breathing Phenomena in a Tailored Flexible Metal-Organic Framework. 2016 , 55, 1920-5	63
759	A visually detectable pH responsive zirconium metal-organic framework. 2016 , 52, 3438-41	47
758	Control of interpenetration in a microporous metal-organic framework for significantly enhanced C2H2/CO2 separation at room temperature. 2016 , 52, 3494-6	71
757	Selectivity of CO2 via pore space partition in zeolitic boron imidazolate frameworks. 2016 , 52, 3552-5	30
756	Rational construction of defects in a metalâBrganic framework for highly efficient adsorption and separation of dyes. 2016 , 289, 486-493	149
755	Structural diversity and magnetic properties of six metalâBrganic coordination polymers based on semi-rigid V-shape tetracarboxylic acid ligand. 2016 , 1109, 161-170	3
754	Two new three-dimensional metalâbrganic frameworks with 4-connected diamondoid and unusual (6,16)-connected net topologies based on planar tetranuclear squares as secondary building units. 2016 , 18, 1174-1183	14
753	Synthesis of cobalt-based layered coordination polymer nanosheets and their application in lithium-ion batteries as anode materials. 2016 , 6, 4442-4447	32
752	Carbon nanocomposite catalysts for oxygen reduction and evolution reactions: From nitrogen doping to transition-metal addition. 2016 , 29, 83-110	540
751	Composites of metalâBrganic frameworks and carbon-based materials: preparations, functionalities and applications. 2016 , 4, 3584-3616	236
75°	Encapsulation of a Metal-Organic Polyhedral in the Pores of a Metal-Organic Framework. 2016 , 138, 1138-41	82
749	Unprecedented Topological Complexity in a Metal-Organic Framework Constructed from Simple Building Units. 2016 , 138, 1970-6	105
748	High proton conductivity at low relative humidity in an anionic Fe-based metalâBrganic framework. 2016 , 4, 3638-3641	65
747	MATERIALS CHEMISTRY. Interlacing molecular threads. <i>Science</i> , 2016 , 351, 336 33.3	О
746	A lanthanide metalâBrganic framework (MOF-76) for adsorbing dyes and fluorescence detecting aromatic pollutants. 2016 , 6, 11570-11576	96
745	Enhanced aging properties of HKUST-1 in hydrophobic mixed-matrix membranes for ammonia adsorption. 2016 , 7, 2711-2716	115
744	High performance liquid chromatography of substituted aromatics with the metal-organic framework MIL-100(Fe): Mechanism analysis and model-based prediction. 2016 , 1432, 84-91	15
743	Solid-State [a͡lD NMR studies of organic and biological molecules: Recent advances and future directions. 2016 , 73, 1-14	42

742	Atomistic Simulation of Protein Encapsulation in Metal-Organic Frameworks. 2016, 120, 477-84	25
74 ¹	A novel copper(II)allanthanum(III) metal organic framework as a selective catalyst for the aerobic oxidation of benzylic hydrocarbons and cycloalkenes. 2016 , 6, 3727-3736	34
740	Syntheses, structures and properties of five entangled coordination polymers constructed with trigonal N-donor ligands. 2016 , 6, 5729-5738	13
739	MetalâBrganic frameworks (MOFs) bring new life to hydrogen-bonding organocatalysts in confined spaces. 2016 , 18, 3985-3995	42
738	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
737	The first heteropoly blue-embedded metalâBrganic framework: crystal structure, magnetic property and proton conductivity. 2016 , 18, 596-600	11
736	Crystal phase competition by addition of a second metal cation in solid solution metal-organic frameworks. 2016 , 45, 4327-37	9
735	Comparison of MOF-5- and Cr-MOF-derived carbons for hydrogen storage application. 2016 , 42, 4951-4961	33
734	Highly branched and loop-rich gels via formation of metal-organic cages linked by polymers. 2016 , 8, 33-41	179
733	Postsynthetic bromination of UiO-66 analogues: altering linker flexibility and mechanical compliance. 2016 , 45, 4132-5	26
732	Structural transformations and solid-state reactivity involving nano lead(II) coordination polymers via thermal, mechanochemical and photochemical approaches. 2016 , 310, 116-130	39
731	Cooperative effects of lanthanides when associated with palladium in novel, 3D Pd/Ln coordination polymers. Sustainable applications as water-stable, heterogeneous catalysts in carbonadarbon cross-coupling reactions. 2016 , 511, 1-10	27
730	Chemical vapour deposition of zeolitic imidazolate framework thin films. 2016, 15, 304-10	387
729	Compositional control of pore geometry in multivariate metal-organic frameworks: an experimental and computational study. 2016 , 45, 4316-26	14
728	Ligand Induced Anionic Cuprous Cyanide Framework for Cupric Ion Turn on Luminescence Sensing and Photocatalytic Degradation of Organic Dyes. 2016 , 55, 75-82	33
727	Chiral Porous Metacrystals: Employing Liquid-Phase Epitaxy to Assemble Enantiopure Metal-Organic Nanoclusters into Molecular Framework Pores. 2016 , 10, 977-83	71
726	Crystal-to-crystal transformation from a chain compound to a layered coordination polymer. 2016 , 45, 89-92	9
7 2 5	Microporous Metal-Organic Framework Stabilized by Balanced Multiple Host-Couteranion Hydrogen-Bonding Interactions for High-Density CO2 Capture at Ambient Conditions. 2016 , 55, 292-9	77

724	An effective strategy to boost the robustness of metal-organic frameworks via introduction of size-matching ligand braces. 2016 , 52, 1971-4	29
723	Encapsulation of an organometallic cationic catalyst by direct exchange into an anionic MOF. 2016 , 7, 2037-2050	44
722	Toward the Development and Deployment of Large-Scale Carbon Dioxide Capture and Conversion Processes. 2016 , 55, 3383-3419	145
721	De Novo Tailoring Pore Morphologies and Sizes for Different Substrates in a Urea-Containing MOFs Catalytic Platform. 2016 , 28, 2000-2010	54
720	Controlling embedment and surface chemistry of nanoclusters in metal-organic frameworks. 2016 , 52, 5175-8	14
719	BODIPY-containing nanoscale metal-organic frameworks for photodynamic therapy. 2016 , 52, 5402-5	137
718	Synchrotron X-ray investigation of ⊞Chlorohemin, C34H32ClFeN4O4, an Fe-porphyrin. 2016 , 53, 63-70	6
717	Engineering metalâBrganic frameworks for aqueous phase 2,4,6-trinitrophenol (TNP) sensing. 2016 , 18, 2994-3007	163
716	A Titanium-Organic Framework as an Exemplar of Combining the Chemistry of Metal- and Covalent-Organic Frameworks. 2016 , 138, 4330-3	196
715	Isostructural compartmentalized spin-crossover coordination polymers for gas confinement. 2016 , 3, 808-813	8
714	An effective approach to improve the electrochemical performance of LiNi0.6Co0.2Mn0.2O2 cathode by an MOF-derived coating. 2016 , 4, 5823-5827	77
713	Modulator Effects on the Water-Based Synthesis of Zr/Hf MetalâDrganic Frameworks: Quantitative Relationship Studies between Modulator, Synthetic Condition, and Performance. 2016 , 16, 2295-2301	99
712	Sitting Phases of Polymerizable Amphiphiles for Controlled Functionalization of Layered Materials. 2016 , 138, 4448-57	32
711	Structural stabilization of a metal-organic framework for gas sorption investigation. 2016 , 45, 6830-3	19
710	Freestanding MOF Microsheets with Defined Size and Geometry Using SuperhydrophobicâBuperhydrophilic Arrays. 2016 , 3, 1500392	27
709	Enhanced CO2 Adsorption Capacity and Hydrothermal Stability of HKUST-1 via Introduction of Siliceous Mesocellular Foams (MCFs). 2016 , 55, 7950-7957	21
708	Model Study of Thermoresponsive Behavior of MetalâDrganic Frameworks Modulated by Linker Functionalization. 2016 , 120, 6835-6841	11
707	Supramolecular transformations within discrete coordination-driven supramolecular architectures. 2016 , 45, 2656-93	406

706	Mixed ligand two dimensional Cd(ii)/Ni(ii) metal organic frameworks containing dicarboxylate and tripodal N-donor ligands: Cd(ii) MOF is an efficient luminescent sensor for detection of picric acid in aqueous media. 2016 , 45, 7881-92	130
705	Seed-Mediated Synthesis of Metal-Organic Frameworks. 2016 , 138, 5316-20	78
704	Challenges and recent advances in MOFâpolymer composite membranes for gas separation. 2016 , 3, 896-909	205
703	Controllable Encapsulation of âlleanâlMetal Clusters within MOFs through Kinetic Modulation: Towards Advanced Heterogeneous Nanocatalysts. 2016 , 128, 5103-5107	38
702	Hydrolytically Stable Nanoporous Thorium Mixed Phosphite and Pyrophosphate Framework Generated from Redox-Active Ionothermal Reactions. 2016 , 55, 3721-3	17
701	Remarkable adsorbent for phenol removal from fuel: Functionalized metalâBrganic framework. 2016 , 174, 43-48	67
700	Metal-organic frameworks: A thin film opening. 2016 , 8, 294-6	10
699	Chiral Frustrated Lewis Pair@Metal-Organic Framework as a New Platform for Heterogeneous Asymmetric Hydrogenation.	1
698	Deconvolution of metal apportionment in bulk metal-organic frameworks. 2022, 8,	0
697	MetalâBrganic frameworks for NH 3 adsorption by different NH 3 operating pressures.	O
696	Structuration of Water in Microporous CAU-10-H under Gigapascal Pressure. 10767-10770	O
695	Guest Molecules with Amino and Sulfhydryl Groups Enhance Photoluminescence by Reducing the Intermolecular Ligand-To-Metal Charge Transfer Process of MetalâDrganic Frameworks. 2022 , 12, 11467	Ο
694	Deep eutectic solvent - loaded Fe3O4@MIL-101(Cr) with core-shell structure for the magnetic solid phase extraction of non-steroidal anti-inflammatory drugs in environmental water samples. 2022 , 108150	1
693	Nanoporous Films with Oriented Arrays of Molecular Motors for Light-Controlled Adsorption and Diffusion.	Ο
692	Photocatalytic CO 2 -to-syngas Evolution with Molecular Catalyst Metal-organic Framework Nanozymes. 2207380	0
691	Challenges in Molecular Dynamics of Amorphous ZIFs Using Reactive Force Fields. 2022 , 126, 19532-19541	Ο
690	Bioinorganic supramolecular coordination complexes and their biomedical applications.	1
689	Carbon Capture Beyond Amines: CO 2 Sorption at Nucleophilic Oxygen Sites in Materials.	Ο

688	Cobalt-Based Active Sites Embedded in Hollow Porous Carbon Nanocages for the Hydrogenation of Nitroarenes.	O
687	A novel crystalline template for the structural determination of flexible chain compounds of nanoscale length. 2022 ,	О
686	Biomimetic active sites on monolayered metalâBrganic frameworks for artificial photosynthesis.	2
685	Differential pulse voltammetric quantitation of kynurenic acid in human plasma using carbon-paste electrode modified with metal-organic frameworks. 2022 , 127016	O
684	Construction of stable MOFs integrated with open metal sites and amine groups for CO2 capture and conversion. 2022 , 123729	0
683	Application of Nanofiltration Membrane Based on Metal-Organic Frameworks (MOFs) in the Separation of Magnesium and Lithium from Salt Lakes. 2022 , 9, 344	O
682	Dual-Ligand Terbium MetalâØrganic Framework for Visual Ratiometric Fluorescence Sensing of Nitrites in Pickles.	0
681	Chiral Frustrated Lewis Pair@Metal-Organic Framework as a New Platform for Heterogeneous Asymmetric Hydrogenation.	O
680	Final Rational Design and Engineering of Efficient Metal Organic Framework for Visible Light-driven Photocatalytic carbon-di-oxide Reduction. 2022 , 121287	0
679	Ligand-Substitution-Induced Single-Crystal to Single-Crystal Transformations in a Redox-Versatile Cu(II) MOF toward Smartphone-Based Colorimetric Detection of Iodide.	O
678	Metalâ®rganic Frameworks Based on a Janus-Head Biquinoline Ligand as Catalysts in the Transformation of Carbonyl Compounds into Cyanohydrins and Alcohols.	0
677	The Dilemma of Reproducibility of Gating Isotherms for Flexible MOFs.	O
676	A Comprehensive Review On Bio Mimicked Multimolecular Frameworks & Scaffolds For Enzyme Immobilization.	0
675	Formation of a Polar Flow Channel with Embedded Gas Recognition Pockets in a Yttrium-Based MOF for Enhanced C2H2/C2H4 and CO2 Selective Adsorptions.	O
674	Mn-1,4-BDC MOF based a COF for ultrafast and simultaneous removal of cationic dyes. 2022 , 18, 100755	0
673	Soft nanobrush-directed multifunctional MOF nanoarrays. 2022 , 13,	1
672	Hierarchically structured and highly active palladium-loaded Al-MIL-53-linked hybrid periodic mesoporous silica catalysts for Suzuki-Miyaura cross-coupling reaction. 2022 , 346, 112329	0
671	Ultrafast and selective adsorption of pharmaceuticals from wastewater by precisely designed metal organic framework with missing linker defects. 2022 , 380, 135060	O

670	Hole-embedding block strategy to synthesize the NMOFs-NADH model: Selective capture and reduction of formaldehyde in aqueous and gaseous phases. 2022 , 10, 108944	0
669	The review of different dimensionalities based pristine metal organic frameworks for supercapacitor application. 2022 , 56, 105700	О
668	Ag-Activated MetalâDrganic Framework with Peroxidase-like Activity Synergistic Ag+ Release for Safe Bacterial Eradication and Wound Healing. 2022 , 12, 4058	0
667	Highly Water-Stable Zn5 Cluster-Based MetalâDrganic Framework for Efficient Gas Storage and Organic Dye Adsorption.	1
666	Two-Dimensional (2D) TM-Tetrahydroxyquinone MetalâDrganic Framework for Selective CO2 Electrocatalysis: A DFT Investigation. 2022 , 12, 4049	0
665	Vacancies-rich MOFs-derived magnetic CoFe encapsulated in N-doped carbon nanotubes as peroxymonosulfate activator for p-arsanilic acid removal. 2022 , 140474	o
664	Room-Temperature Semiconductor Gas Sensors: Challenges and Opportunities.	1
663	MOF-808: a novel solid-acid catalyst for methanol conversion to environmentally clean fuel dimethyl ether. 1-9	О
662	Trends in Siting of Metals in Heterometallic Ndâl'b MetalâlDrganic Frameworks and Molecular Crystals.	0
661	Homomesoporous MetalâDrganic Framework for High-Performance Electrochromatographic Separation.	О
660	Direct Visualization of Atomic Structure in Multivariate MOFs for Guiding Electrocatalysts Design.	O
659	A Cell Selective Fluoride-Activated MOF Biomimetic Platform for Prodrug Synthesis and Enhanced Synergistic Cancer Therapy.	O
658	Direct Sintering Behavior of Metal Organic Frameworks/Coordination Polymers.	О
657	Direct Visualization of Atomic Structure in Multivariate MOFs for Guiding Electrocatalysts Design.	О
656	Metal organic frameworks derived functional materials for energy and environment related sustainable applications. 2022 , 137330	О
655	Potential and technical challenges of on-board hydrogen storage technologies coupled with fuel cell systems for aircraft electrification. 2023 , 555, 232397	2
654	Recent progress in hoståguest metalåßrganic frameworks: Construction and emergent properties. 2023 , 476, 214921	2
653	Removal and recycling of selenite anions by iron-doped cobalt-based metal organic frameworks for oxygen evolution reaction. 2023 , 334, 126713	o

652	Vitrification and Luminescence Properties of MetalâDrganic Complexes. 2613-2621	2
651	Hierarchical metal-peptide assemblies with chirality-encoded spiral architecture and catalytic activity.	O
650	Metal-organic frameworks-derived advanced oxygen electrocatalysts as air-cathodes for Zn-air batteries: Recent trends and future perspectives.	0
649	Experimental observation of metalåBrganic frameworkåBolymer interaction forces and intercalation.	O
648	Bifunctional tetrazoleâBarboxylate ligand based Zn(ii) complexes: synthesis and their excellent potential anticancer properties. 2022 , 12, 33808-33815	0
647	Tunning the optical properties of a Photocatalytic Metal-Organic Framework by means of molecular modelling.	O
646	Synthesis of porphyrin-based 2D ytterbium metal organic frameworks for efficient photodynamic therapy. 2022 , 12, 34318-34324	0
645	2-Mercaptoimidazole selectively etching and thiol-functionalized ZIF-8 metalâBrganic framework to serve as a multifaceted platform for radical scavenging and Au loading. 2023 , 27, 101259	O
644	Terbium-modified two-dimensional zirconium-based metalâBrganic frameworks for photoluminescence detection of nitrite.	0
643	Two different pore architectures of Cyamelurate-Based Metal-Organic Frameworks for Highly Selective CO2 Capture at Ambient Conditions.	O
642	MOF-on-MOF heterostructures with coreâBhell and coreâBatellite structures via controllable nucleation of guest MOFs.	0
641	A porous cobalt(II)-organic framework exhibiting high room temperature proton conductivity and field-induced slow magnetic relaxation.	O
640	A 2D layered cobalt-based metalâBrganic framework for photoreduction of CO2 to syngas with a controllable wide ratio range.	0
639	Three multi-responsive luminescent Zn-CPs for the detection of antibiotics/cations/anions in aqueous media.	1
638	Incorporation of 1-ethyl-3-methyl-imidazolium acetate into UiO-66 as efficient sorbents for carbon dioxide capture.	0
637	MOF Catalysis Meets Biochemistry: Molecular Insights from the Hydrolytic Activity of MOFs Towards Biomolecules.	1
636	The synthesis of zeolitic imidazolate framework/prussian blue analogue heterostructure composites and their application in supercapacitors. 2022 , 10, 78-84	0
635	Evaluation of ZIF-8 flexible force fields for structural and mechanical properties. 2023 , 348, 112406	O

634	Promotion of methane storage capacity with metalâbrganic frameworks of high porosity.	О
633	Marine chitin upcycling with immobilized chitinolytic enzymes: current state and prospects.	O
632	Heterometallic palladiumâlion metalâbrganic framework as a highly active catalyst for cross-coupling reactions. 2022 , 14, 179-185	О
631	Equipping carbon dots in a defect-containing MOF via self-carbonization for explosive sensing. 2022 , 11, 321-328	O
630	Persistent microporosity of a non-planar porphyrinoid based on multiple supramolecular interactions for nanomechanical sensor applications.	O
629	Dative B<-N bonds based crystalline organic framework with permanent porosity for acetylene storage and separation.	1
628	The combination of S-doped ZIF-8 with graphene oxide for enhanced near-infrared light photocatalytic and photothermal sterilization. 2023 , 455, 140857	О
627	Self-supported electrocatalysts for hydrogen evolution reaction.	1
626	Metal-organic frameworks as chemical nanoreactors for the preparation of catalytically active metal compounds.	O
625	Construction of enzyme@glutathione hybrid metal-organic frameworks: glutathione-boosted microenvironment fine-tuning of biomimetic immobilization for improving catalytic performance. 2023 , 27, 101326	O
624	Enhancing hydroxide conductivity at subzero temperature of anion exchange membranes based on imidazolium modified metal organic frameworks. 2023 , 370, 120943	1
623	Exploration of metal organic frameworks and covalent organic frameworks for energy-related applications. 2023 , 477, 214968	2
622	In-situ growth of ZIF-8 nanoparticles in Pebax-2533 for facile preparation of high CO2-selective mixed matrix membranes. 2023 , 659, 130747	О
621	Formation of a meltable purinate metalâBrganic framework and its glass analogue.	O
620	Nanoengineered ZIF fillers for mixed matrix membranes with enhanced CO2/CH4 selectivity. 2023 , 307, 122737	O
619	PPO-ZIF MMMs possessing metal-polymer interactions for propane/propylene separation. 2023 , 668, 121208	O
618	Hybrid nanogenerator driven self-powered SO2F2 sensing system based on TiO2/Ni/C composites at room temperature. 2023 , 377, 133053	О
617	Percolation-assisted coating of metal-organic frameworks on porous substrates. 2023 , 668, 121202	O

616	A review on UiO-66 applications in membrane-based water treatment processes. 2023 , 51, 103402	1
615	Electrosprayed hierarchically porous microparticles with tunable morphology for selective dye adsorption. 2023 , 295, 127154	O
614	Application of ZIF nanosheets for construction of epoxy composite coatings with enhanced corrosion protection performance. 2023 , 175, 107335	0
613	Sustainable synthesis of metal-organic frameworks and their derived materials from organic and inorganic wastes. 2023 , 478, 214986	4
612	Efficient direct electrocatalysis of nano-dodecahedron for the highly sensitive and selective detection of rutin. 2023 , 186, 108332	0
611	Defective iron based metal-organic frameworks derived from zero-valent iron for highly efficient fenton-like catalysis. 2023 , 445, 130426	O
610	Honeycomb-like Hofmann-type metal-organic framework membranes for C2H2/CO2 and H2/CO2 separation. 2023 , 669, 121282	0
609	Reticular synthesis of a conductive composite derived from metal-organic framework and Mxene for the electrochemical detection of dopamine. 2023 , 613, 156103	O
608	Carbon-dots-referenced metal-organic frameworks for chemical sensing of tumor/mood biomarker 5-hydroxyindoleacetic acid in human urine: Covalent grafting blue-emitting carbon dots onto red-emitting MOF. 2023 , 290, 122244	1
607	Constructing abundant phase interfaces of the sulfides/metal-organic frameworks p-p heterojunction array for efficient overall water splitting and urea electrolysis. 2023 , 634, 630-641	O
606	Constructing heterostructures of ZIF-67 derived C, N doped Co2P and Ti2VC2T MXene for enhanced OER. 2023 , 145, 74-82	0
605	Design of metal-organic frameworks for improving pseudo-solid-state magnesium-ion electrolytes: Open metal sites, isoreticular expansion, and framework topology. 2023 , 144, 15-27	1
604	Bimetal NiCo-MOF-74 for highly selective NO capture from flue gas under ambient conditions. 2022 , 12, 33716-33724	0
603	Applications of metal organic frameworks (MOFs) in wound healing and tuberculosis (TB) treatment. 2022 , 4, 100648	O
602	Smart biomaterials for enhancing cancer therapy by overcoming tumor hypoxia: a review. 2022 , 12, 33835-33	3851
601	Metal-Organic Frameworks for Advanced Battery Chemistries. 2022 ,	O
600	SYNTHESIS AND CRYSTAL STRUCTURE OF ONE-DIMENSIONAL COORDINATION POLYMERS BASED ON LANTHANIDE COMPLEXES AND CUCURBIT[6]URIL. 2022 , 63, 1770-1778	О
599	Multiscale Computational Approaches toward the Understanding of Materials. 2200628	1

598	A Pentanuclear Cu(II)-based 2D Bilayer Coordination Polymer for CO2 Fixation Under Mild Conditions.	О
597	Upcycling Waste Poly(ethylene terephthalate) into a Porous Carbon Cuboid through a MOF-Derived Carbonization Strategy for Interfacial Solar-Driven Waterâllhermoelectricity Cogeneration. 2022 , 10, 16427-16439	2
596	In Response to Precision Medicine: Current Subcellular Targeting Strategies for Cancer Therapy. 2209529	1
595	Insights into Drug-Loading Capacity of Bio-Zirconium Metal-Organic Frameworks Nanoparticles for Tetracycline Hydrochloride. 935, 179-184	Ο
594	MOF-Derived MnO/C Nanocomposites for High-Performance Supercapacitors. 2022 , 12, 4257	1
593	Microenvironment Regulation of MetalâDrganic Frameworks to Anchor Transition Metal Ions for the Electrocatalytic Hydrogen Evolution Reaction. 2022 , 61, 19475-19482	Ο
592	MetalâDrganic Frameworks as Intelligent Drug Nanocarriers for Cancer Therapy. 2022 , 14, 2641	1
591	Correlation of adsorbent cavity structure with adsorption behavior and interaction of long-chain <code>Blefin/paraffin</code> on microporous adsorbents.	Ο
590	Emerging Materials for Interfacial Solar-Driven Water Purification.	0
589	Merging molecular catalysts and metalâBrganic frameworks for photocatalytic fuel production. 2022 , 14, 1342-1356	1
588	Developing Water-Stable Pore-Partitioned Metal-Organic Frameworks with Multi-Level Symmetry for High-Performance Sorption Applications. 2205119	2
587	Reactive Chlorine Capture by Dichlorination of Alkene Linkers in MetalâDrganic Frameworks. 2022 , 14, 53928-53935	2
586	Coordination polymers derived from magnesium and barium complexes of redox-active ligands. 2022 , 32, 759-762	О
585	Design of Single-Atom Catalysts and Tracking Their Fate Using Operando and Advanced X-ray Spectroscopic Tools.	Ο
584	Removal of dimethylarsinate from water by robust NU-1000 aerogels: Impact of the aerogel materials. 2022 , 140387	0
583	Emerging Materials for Interfacial Solar-Driven Water Purification.	Ο
582	Reticular Chemistry with Art: A Case Study of Olympic Rings-Inspired MetalâDrganic Frameworks. 2022 , 144, 22170-22177	0
581	A Mechanistic Study of Asymmetric Transfer Hydrogenation of Imines on a Chiral Phosphoric Acid Derived Indium Metal-Organic Framework. 2022 , 27, 8244	Ο

580	ZIF-L to ZIF-8 Transformation: Morphology and Structure Controls. 2022 , 12, 4224	0
579	Free-standing polymer-metal-organic framework membrane with high proton conductivity and water stability.	O
578	Synthesis and ferroelectric behaviour of an axially symmetric octahedral [Cu6L8]12+ cage. 2022 , 134,	O
577	Protein trap-engineered metal-organic frameworks for advanced enzyme encapsulation and mimicking.	2
576	Surface-Clean Au25 Nanoclusters in Modulated Microenvironment Enabled by MetalâØrganic Frameworks for Enhanced Catalysis. 2022 , 144, 22008-22017	4
575	Time-resolved in-situ X-ray diffraction and crystal structure analysis of porous coordination polymer CPL-1 in CO2 adsorption. 2022 , 123796	1
574	Fully Automated Optimization of Robot-Based MOF Thin Film Growth via Machine Learning Approaches. 2201771	1
573	Selective and rapid extraction of trace amount of gold from complex liquids with silver(I)-organic frameworks. 2022 , 13,	2
572	MIL-68(Al) and MIL-68(Fe) as broadband optical modulators for Q-switching fiber lasers operating at 2 and 2.9 fh. 10,	О
571	Pesticide content analysis of red and yellow watermelon juices through a solid phase microextraction using a green copper-based metalaBrganic framework synthesized in water followed by a liquid phase microextraction procedure.	O
570	Multi-Scale Computer-Aided Design of Covalent Organic Frameworks for CO2 Capture in Wet Flue Gas. 2022 , 14, 56353-56362	O
569	Preparation of Mixed Matrix Membranes Containing COF Materials for CO _{2 } Removal from Natural Gas/Review. 938, 151-162	O
568	Synthesis and Catalytic Application of MTsCOO-Cu as a Melamine-Based Metal-Organic Framework in Facile Preparation of the 5-Substituted-1 H -Tetrazoles. 2022 , 7,	О
567	Metallocene-based covalent metal-organic porous polymers and their derivatives. 2022 , 111547	O
566	MetalâDrganic Frameworks as Photocatalysts for Solar-Driven Overall Water Splitting.	3
565	MetalâDrganic Framework-Based Photocatalysis for Solar Fuel Production. 2201258	1
564	Lipase Immobilized onto Metal-Organic Frameworks for Enantioselective Resolution of Mandelic Acid.	1
563	Rational construction of Ag@MIL-88B(V)-derived hierarchical porous Ag-V2O5 heterostructures with enhanced diffusion kinetics and cycling stability for aqueous zinc-ion batteries. 2022 ,	O

562	Highly Selective MOF-Based Turn-Off Luminescence Detection of Hg2+ Ions in an Aqueous Medium and Its Dual Functional Catalytic Activity toward Aldol Condensation and #Enamination Reactions.	O
561	Reactive Crystallization via MetalâDrganic-Framework Formation Enables Separation of Terephthalic Acid from Textile Impurities.	O
560	Covalent organic frameworks: Recent advances in synthesis, characterization and their application in the environmental and agricultural sectors. 2022 , 100719	O
559	Mechanochemistry Milling of Waste Poly(Ethylene Terephthalate) into Metalâ®rganic Frameworks.	O
558	Twisting of Porphyrin by Assembly in a Metal-Organic Framework yielding Chiral Photoconducting Films for Circularly-Polarized-Light Detection.	O
557	Exploring Helical Peptides and Foldamers for the Design of Metal Helix Frameworks: Current Trends and Future Perspectives.	O
556	Structural Transformable Coulomb Lattice of n-Type Semiconductors for Guest Sorption.	O
555	A new perchlorate-based hybrid ultramicroporous material with rich bare oxygen atoms for high C2H2/CO2 separation. 2022 , 108039	O
554	Enhancing photosynthetic efficiency by assembling metal-organic frameworks on microalgae.	0
553	High-Performance Turn-On Fluorescent MetalâDrganic Framework for Detecting Trace Water in Organic Solvents Based on the Excited-State Intramolecular Proton Transfer Mechanism. 2022 , 14, 5599	7-56006
552	Defective Homojunction Porphyrin-Based Metal-Organic Frameworks for Highly Efficient Sonodynamic Therapy. 2201248	О
551	Elucidating polymer growth and fragmentation behavior of MOFs in ethylene polymerization by MOF thin films. 2022 , 101206	O
550	Water-Harvesting MetalâDrganic Frameworks with Gigantic Al24 Units and their Deconstruction into Molecular Clusters.	O
549	A Multimodal Study on the Unique Sensing Behavior of a Guest@Metal-Organic Framework Material for the Detection of Volatile Acetone. 2201401	O
548	Tailoring MOFs to Biomedical Applications: A Chimera or a Concrete Reality? The Case Study of Fe-BTC by bio-friendly Mechanosynthesis. 1-21	O
547	Estacks of radical-anionic naphthalenediimides in a metal-organic framework. 2022, 8,	1
546	Implementation and utilization of Zeolitic imidazolate frameworks (ZIFs) based membranes in wastewater treatment: A review. 2022 ,	O
545	Biomolecules-Incorporated Metal-Organic Frameworks Gated Light-Sensitive Organic Photoelectrochemical Transistor for Biodetection. 2211277	1

544	Ultra-Thin Zr-MOF/PVA/Melamine Composites with Remarkable Sound Attenuation Effects.	0
543	Computational Characterization of Zr-Oxide MOFs for Adsorption Applications.	O
542	Porous Materials for Water Purification.	О
541	An âAll in oneâßtrategy to Boost Antibacterial Phototherapy via Porphyrin and Boron Dipyrromethenes based Covalent Organic Framework. 2022 , 141017	O
540	A Series of Metal-Organic Frameworks for Adsorption of Halogenated Volatile Organic Compounds. 2022 , 7,	О
539	Quantification of gas-accessible microporosity in metal-organic framework glasses. 2022, 13,	1
538	Diffusion NMR for Measuring Dynamic Ligand Exchange on Colloidal Nanocrystals.	О
537	Water-Harvesting MetalâDrganic Frameworks with Gigantic Al24 Units and their Deconstruction into Molecular Clusters.	O
536	Real-Space Imaging of the Nodeâllinker Coordination on the Interfaces between Self-Assembled MetalâDrganic Frameworks.	1
535	Porous Materials for Water Purification.	O
534	MOF-Based Sorbents Used for the Removal of Hg2+ from Aqueous Solutions via a Sorption-Assisted Microfiltration. 2022 , 12, 1280	О
533	Two Zn(II)/Cd(II) Coordination Polymers as Recyclable Heterogeneous Catalysts for an Efficient Room-Temperature Synthesis of Aminonitriles via the Solvent-Free Strecker Reaction.	O
532	Tuning Energy Transfer in Metal-Organic Frameworks for Fluorescence Turn-on Sensing of Hg($\rm II$) lons.	О
531	A Robust Molecular Porous Material for C 2 H 2 /CO 2 Separation. 2206945	O
530	Recent Advances in Tetra- (Ti, Sn, Zr, Hf) and Pentavalent (Nb, V, Ta) Metal-Substituted Molecular Sieve Catalysis.	О
529	Modified Ni Nanoparticles as Additives in Various Greases: Assessment of Comparative Performance Potential. 2022 , 10, 367	О
528	MetalâDrganic Frameworks and Gas Hydrate Synergy: A Pandoraâ∃ Box of Unanswered Questions and Revelations. 2023 , 16, 111	1
527	The Atomic Structure and Mechanical Properties of ZIF-4 under High Pressure: Ab Initio Calculations. 2023 , 28, 22	O

526	Molecular Compartments Created in MetalâØrganic Frameworks for Efficient Visible-Light-Driven CO2 Overall Conversion.	1
525	Surface Protonic Conduction on Oxide Ceramics: Mechanism, Materials, and Method for Characterization. 2201764	O
524	Recent Advances on Multivariate MOFs for Photocatalytic CO 2 Reduction and H 2 Evolution. 2200394	О
523	Exploring Helical Peptides and Foldamers for the Design of Metal Helix Frameworks: Current Trends and Future Perspectives.	1
522	Functionally decorated metalâBrganic frameworks in environmental remediation. 2022, 140741	1
521	Twisting of Porphyrin by Assembly in a Metal-Organic Framework yielding Chiral Photoconducting Films for Circularly-Polarized-Light Detection.	O
520	Comparison of the effectiveness of textiles containing metal nanoparticle and metal-organic frameworks for protection against ultraviolet radiation: a systematic review and meta-analysis. 1-16	0
519	An Iron-NDC Framework with a Cage Structure and an Optothermal Conversion in NIR Window. 2022 , 27, 8789	О
518	Thermal stability of copper-based MOF under different atmospheres.	О
517	Highly Sensitive and Reliable Piezoresistive Strain Sensor Based on Cobalt Nanoporous Carbon-Incorporated Laser-Induced Graphene for Smart Healthcare Wearables.	Ο
516	Review on MetalâDrganic Framework Classification, Synthetic Approaches, and Influencing Factors: Applications in Energy, Drug Delivery, and Wastewater Treatment. 2022 , 7, 44507-44531	2
515	Protection against Chemical Warfare Agents and Biological Threats Using MetalâDrganic Frameworks as Active Layers.	O
514	Rare earth-based MOF for photo/electrocatalysis.	О
513	In situ hollow nanoarchitectonics of MIL-88A@Co(OH)2 composites for supercapacitor and oxygen evolution reaction.	O
512	Recent advances in fluorescent chemosensors for ammonia sensing in the solution and vapor phases.	О
511	Cathode Materials for Secondary Zinc-Air Batteries. 2023 , 67-156	О
510	A Visible Light-Induced and ROS-Dependent Method for the Rapid Formation of a MOF Composite Membrane with Antibacterial Properties. 2023 , 24, 1520	1
509	Composite with a Glassy Nonporous Coordination Polymer Enhances Gas Adsorption Selectivity.	O

508	A Manganese(II) 3D MetalâDrganic Framework with Siloxane-Spaced Dicarboxylic Ligand: Synthesis, Structure, and Properties. 2023 , 11, 21	O
507	Long-Period Fiber Grating Sensors for Chemical and Biomedical Applications. 2023 , 23, 542	O
506	Beyond Microporosity in Porous Organic Molecular Materials (POMMs).	O
505	Hydrogen adsorption on methyl-functionalized IRMOF-1 and IRMOF-18 by molecular simulation. 2023 , 142,	O
504	In Situ Growth of Cyclodextrin-Based Metal Organic Framework Air Filters for Reusable SO 2 Adsorbent Applications. 2200645	O
503	Ion Selective Membranes. 2023,	O
502	Hydrogen-Bond-Connected 2D Zn-LMOF with Fluorescent Sensing for Inorganic Pollutants and Nitro Aromatic Explosives in the Aqueous Phase.	O
501	Zr- and Ti-based metal organic frameworks: synthesis, structures and catalytic applications.	О
500	A literature review of MOF derivatives of electromagnetic wave absorbers mainly based on pyrolysis. 2023 , 30, 446-473	1
499	Heterogeneous interfacial photocatalysis for the inactivation of Karenia mikimotoi by Bi2O3 loaded onto a copper metal organic framework (Bi2O3@Cu-MOF) under visible light. 2023 , 456, 141154	O
498	Magnetic sustentation as an adsorption characterization technique for paramagnetic metal-organic frameworks. 2023 , 6,	O
497	MetalâDrganic Frameworks and Their Biodegradable Composites for Controlled Delivery of Antimicrobial Drugs. 2023 , 15, 274	O
496	Microporous metalâBrganic frameworks for the purification of propylene.	1
495	In-situ synthesis of hierarchical MIL-100(Fe) modified nanofiber membrane for efficient removal of levofloxacin.	O
494	Epitaxial Transformations of Metal-organic Frameworks into Orientated Superparticles.	O
493	Synthesis of Biocompatible Nanoporous ZIF-8-Gum Arabic as a New Carrier for the Targeted Delivery of Curcumin.	O
492	Micro/nano metalâBrganic frameworks meet energy chemistry: a review of materials synthesis and applications. 2023 , 100092	O
491	Effect of Metal Atom in Zeolitic Imidazolate Frameworks (ZIF-8 & amp; 67) for Removal of Dyes and Antibiotics from Wastewater: A Review. 2023 , 13, 155	3

(2023-2023)

490	Porous framework materials for energy & environment relevant applications: A systematic review. 2023 ,	О
489	Delivery of Immobilized IFN-IWith PCN-333 and Its Effect on Human Mesenchymal Stem Cells.	O
488	Antifungal and Nanozyme Activities of MetalâDrganic Framework-derived CuO@C.	0
487	Nanomaterials for lubricating oil application: A review. 2023 , 11, 647-684	1
486	How to Decarbonize Our Energy Systems: Process-Informed Design of New Materials for Carbon Capture.	0
485	Functionality-Induced Locking of Zeolitic Imidazolate Frameworks.	O
484	BimetalâØrganic Frameworks for High Efficiency Catalytic Reduction. 473-479	Ο
483	MOF-Derived Cobalt@Mesoporous Carbon as Electrocatalysts for Oxygen Evolution Reaction: Impact of Organic Linker.	O
482	Charge transfer in metal-organic frameworks.	Ο
481	Theoretical Screening of CO2 Electroreduction over MOF-808-Supported Self-Adaptive Dual-Metal-Site Pairs. 2023 , 62, 930-941	Ο
480	Plasma Meets MOFs: Synthesis, Modifications, and Functionalities.	О
479	Room-Temperature Bistability in Spin Crossover-Loaded MetalâØrganic Frameworks.	O
478	Modulating thermal properties of polymers through crystal engineering.	Ο
477	Using Metal-Organic Framework HKUST-1 for the Preparation of High-Conductive Hybrid Membranes Based on Multiblock Copolymers for Fuel Cells. 2023 , 15, 323	0
476	Beyond Microporosity in Porous Organic Molecular Materials (POMMs).	O
475	Electron Microscopy Studies of Soft Nanomaterials.	O
474	Controllable Synthetic Strategy of the Coordinatively Unsaturated Metal Sites on Ni-BTC for Highly Efficient Oxygen Evolution. 2023 ,	O
473	(Multivariate)-MetalâDrganic Framework for Highly Efficient Antibiotic Capture from Aquatic Environmental Matrices. 2023 , 15, 3069-3076	O

472	MRI Contrasting Agent Based on Mn-MOF-74 Nanoparticles with Coordinatively Unsaturated Sites.	0
471	Modulating thermal properties of polymers through crystal engineering.	О
470	Effects of MOF linker rotation and functionalization on methane uptake and diffusion.	0
469	Tailoring Stability, Catalytic Activity and Selectivity of Covalent Metal-Organic Frameworks via Steric Modification of Metal Node.	o
468	The application of a metal-organic framework based on copper (MOF-199) and its modified form (G@MOF-199) in the four-component synthesis of spiro indenoquinoxaline derivatives.	0
467	Influence of 1-Butene Adsorption on the Dimerization Activity of Single Metal Cations on UiO-66 Nodes. 2023 , 145, 1407-1422	o
466	On enhancing the Li-ion conductivity of quasi-solid-state electrolytes by suppressing the flexibility of zeolitic imidazolate framework-8 via a mixed ligand strategy.	O
465	Trend in biodegradable porous nanomaterials for a nticancer drug delivery.	o
464	Anodic electrodeposition of continuous metal-organic framework films with robust adhesion by pre-anchored strategy. 2023 , 350, 112443	0
463	Photo-Assisted Electrochemical CO 2 Reduction to CH 4 Using a Co-Porphyrin-Based Metalâ©rganic Framework. 2201068	o
462	Metal-organic frameworks for catalysis: Fundamentals and future prospects. 2023, 45, 1-5	2
461	Degradation of micropollutants by metal organic framework composite-based catalysts: A review. 2023 , 29, 102998	1
460	Water stable MOFs as emerging class of porous materials for potential environmental applications. 2023 , 313, 137607	0
459	CO2 capture enhancement by encapsulation of nanoparticles in metalâBrganic frameworks suspended in physical absorbents. 2023 , 69, 102397	o
458	Remarkable improvement of MOF-based triboelectric nanogenerators with strong electron-withdrawing groups. 2023 , 107, 108149	O
457	Enzymatic bionanocatalysts for combating peri-implant biofilm infections by specific heat-amplified chemodynamic therapy and innate immunomodulation. 2023 , 67, 100917	1
456	Assembly of graphene-wrapped ZIF-8 microspheres and confined carbonization for energy storage applications. 2023 , 560, 232702	0
455	Precisely introducing active sites into NU-1000 through linker incorporation for degrading sulfamethoxazole under visible-light photo-Fenton process. 2023 , 309, 123013	o

454	Novel MoS2-sputtered NiCoMg MOFs for high-performance hybrid supercapacitor applications. 2023 , 310, 123101	О
453	Intermediate nanofibrous charge trapping layer-based wearable triboelectric self-powered sensor for human activity recognition and user identification. 2023 , 108, 108180	1
452	In-situ synthesis of Fe7S8 on metal sites of MOFs as high-capacity and fast-kinetics anodes for sodium ion batteries. 2023 , 940, 168854	0
451	Preparation of a cyclodextrin metal-organic framework (CD-MOF) membrane for chiral separation. 2023 , 11, 109250	O
450	Effective enhancement of performances on photo-assisted dye degradation using a Zn coordination polymer and its post-modified Cu/Zn bimetallic analogue under natural environments. 2023 , 11, 109258	О
449	Rapid and quantitative determination of deoxynivalenol in cereal through the combination of magnetic solid-phase extraction and optical fiber-based homogeneous chemiluminescence immunosensor. 2023 , 410, 135356	O
448	MOF-derived hierarchically ordered porous carbon for the immobilization of Eversa Transform 2.0 and its post-immobilization hydrophobization in biodiesel production. 2023 , 339, 127426	Ο
447	Synthesis and characterization of ZnBTC-based MOFs: effect of solvents and salt. 2022 , 10,	O
446	Toward High-Performance Mg-S Batteries via a Copper Phosphide Modified Separator.	1
445	Superiority of the Supramolecular Halogen Bond Receptor over Its H-Bond Analogue toward the Efficient Extraction of Perrhenate from Water.	O
444	Tuning Size and Properties of Zinc Ascorbate Metal-Organic Framework via Acid Modulation. 2023 , 28, 253	O
443	Hybrid high performance supercapacitor based on zeolitic imidazolate frameworks-67-derived nano-structure NiCo2S4. 2022 ,	О
442	Recent Advances in Impedimetric Biosensors Focusing on Myocardial Infarction Diagnosis. 1-14	О
441	Boosting xenon adsorption with record capacity in microporous carbon molecular sieves.	1
440	Peptide-based porous materials and their applications.	О
439	ZnFe2O4/ZrO2/NaX zeolite nanocomposite catalyst: elaboration and its application for the removal of dimethyl 4-nitrophenyl phosphate (DMNP) chemical nerve agent simulant from water solution.	Ο
438	MetalâDrganic Frameworks-Based Analytical Devices for Chiral Sensing and Separations: A Review (2012âD022). 2023 , 11, 29	О
437	A Green, Economic Method for Bench-Scale Activation of a MIL-101(Cr) Nanoadsorbent. 2023 , 62, 598-609	Ο

436	Machine Learning-Enabled Framework for High-Throughput Screening of MOFs: Application in Radon/Indoor Air Separation. 2023 , 15, 1305-1316	0
435	MetalâDrganic-Framework-Based Chemosensor for Ultrafast and Ultrasensitive Detection of Pd2+ Ions in Water, Real Specimens, and Test Strips. 2023 , 62, 802-809	O
434	A 0D/2D Heterojunction Composite of Polymeric Carbon Nitride and ZIF-8-Derived ZnO for Photocatalytic Organic Pollutant Degradation. 2023 , 13, 47	1
433	Metal-organic frameworks as regeneration optimized sorbents for atmospheric water harvesting. 2023 , 101252	O
432	Controllable synthesis of MOFs-derived porous and tubular bimetallic FeâNi phosphides for efficient electrocatalytic water splitting.	0
431	MOF mixed matrix membranes for syngas purification. 2023 , 307-323	O
430	Construction of Fluorinated Propane-Trap in Metal-Organic Frameworks for Record Polymer-grade Propylene Production under High Humidity Conditions. 2207955	О
429	Self-Propelled, High-Crystalline Hydrogen-Bonded Enzymatic Framework Assembled by Bottom-Up Strategy. 2200346	O
428	Metal-Organic Frameworks and Their Derived Structures for Biomass Upgrading. 2023 , 184-255	0
427	Highly Sensitive and Selective Real-Time Breath Isoprene Detection using the Gas Reforming Reaction of MOF-Derived Nanoreactors. 2023 , 15, 7102-7111	O
426	Unravelling the influence of interfacial tailoring in metal-organic framework-derived ultrathin sheets of Co2P/Cu3P for high-performance hybrid supercapacitor. 2023 , 100335	1
425	Advanced porous nanomaterials as superior adsorbents for environmental pollutants removal from aqueous solutions. 1-21	2
424	Institution of MetalâDrganic Frameworks as a Highly Sensitive and Selective Layer In-Field Integrated Soil-Moisture Capacitive Sensor. 2023 , 15, 6202-6208	О
423	Adsorptive removal of iodate oxyanions from water using a Zr-based metalâBrganic framework.	O
422	MOF/polymer hybrids through in situ free radical polymerization in metal-organic frameworks.	0
421	Metal-organic frameworks: The next-generation adsorbents for the sustainable remediation of aquatic pollutants. 2023 , 121-153	O
420	Antiadherent AgBDC Metalâ©rganic Framework Coating for Escherichia coli Biofilm Inhibition. 2023 , 15, 301	0
419	MOFs Containing Solid-State Electrolytes for Batteries. 2206887	O

418	MOF-Based Materials for CO2 Conversion. 2023 , 256-293	О
417	Synergistic promotion of Ag nanoparticles supported on magnetic Cu based metal organic framework for A3-coupling and synthesis of benzopyranopyrimidines.	О
416	Luminescent Organic Molecular Frameworks from Tetraphenylethylene-based Building Blocks.	О
415	BiOBr as template and Bi3+ source to support the growth of Bi-Zn bimetallic MOF and hybrid photocatalysts with highly visible-light photocatalytic performances. 2023 , 58, 2506-2524	O
414	Synthesis of Fe-Doped Zif-8 and its Adsorption Performance for Phosphate from Water.	O
413	Zeolitic Imidazolate Framework-8 Triggers the Inhibition of Arginine Biosynthesis to Combat Methicillin-Resistant Staphylococcus Aureus. 2205682	O
412	Multivariate Porphyrinic MOFs as Precursors of Nanoalloy Catalysts for Efficient Dehydrogenation of Hydrogen Molecular Carriers.	O
411	AuNPs/Cu-TCPP(Fe) Metal-Organic Framework Nanofilm: Paper-based Electrochemical Sensor for Non-invasive Detec-tion of Lactate in Sweat.	O
410	Mixing ligands to enhance gas uptake in polyMOFs.	0
409	New reticular chemistry of pillared rare-earth kgd supermolecular building layer frameworks with ethane-trapping property.	O
408	High-Throughput Experimentation, Theoretical Modeling, and Human Intuition: Lessons Learned in MetalâDrganic-Framework-Supported Catalyst Design.	O
407	Metal Organic Frameworks as an Efficient Method for Carbon dioxide capture. 2023 , 211-230	O
406	Decoding complex order in reticular frameworks. 2023 , 379, 330-331	0
405	Cathode materials for lithium-sulfur battery: a review.	1
404	MOFs and Their Composites as Catalysts for Organic Reactions. 2023 , 130-183	0
403	Role of nitrogen doping and pore volume for CO2 capture in metal-organic framework derived ultramicroporous carbon material. 2023 , 5, 100807	O
402	Metal-organic layers: Preparation and applications.	0
401	Optimal Binding Affinity for Sieving Separation of Propylene from Propane in an Oxyfluoride Anion-Based MetalâDrganic Framework. 2023 , 145, 2386-2394	1

400	Intergradation of UiO-66 Nanoparticles with Expanded Graphite for Electrocatalytic Determination of Nitrite and L-Cysteine. 2200014	O
399	MOFs-based advanced materials for gaseous adsorption: Sustainable environmental remediation. 2023 , 185-205	0
398	Reticular Design of Precise Linker Installation into a Zirconium MetalâDrganic Framework to Reinforce Hydrolytic Stability. 2023 , 145, 3055-3063	1
397	Programmed Polarizability Engineering in a Cyclen-Based Cubic Zr(IV) MetalâDrganic Framework to Boost Xe/Kr Separation. 2023 , 145, 2679-2689	1
396	High-throughput screening of hypothetical metal-organic frameworks for thermal conductivity. 2023 , 9,	0
395	A ratiometric fluorescent probe based on a dual-ligand lanthanide metalâBrganic framework (MOF) for sensitive detection of aluminium and fluoride ions in river and tap water.	O
394	TiO2@NH2-MIL-125(Ti) composite derived from a partial-etching strategy with enhanced carriersâl transfer for the rapid photocatalytic Cr(VI) reduction. 2023 , 30, 630-641	0
393	Fully-Conjugated Covalent Organic Frameworks with Two Metal Sites for Oxygen Electrocatalysis and ZnâAir Battery. 2206165	Ο
392	Metal Node Control of Brüsted Acidity in Heterobimetallic TitaniumâDrganic Frameworks.	Ο
391	Low-concentration CO2 capture using metalabrganic frameworks alkurrent status and future perspectives.	1
390	An artificial sodium-selective subnanochannel. 2023 , 9,	Ο
389	Embedding Lanthanide Organic Polyhedra into Mesoporous Silica Nanoparticles for the Photocatalytic Degradation of Organic Dyes.	Ο
388	Water as a Modifier in a Hybrid Coordination Network Glass. 2205988	Ο
387	Synthesis of Metal Organic Frameworks (MOFs) and Their Derived Materials for Energy Storage Applications. 2023 , 5, 140-166	Ο
386	Improving curcumin bactericidal potential against multi-drug resistant bacteria via its loading in polydopamine coated zinc-based metalâBrganic frameworks. 2023 , 30,	0
385	Automated Graph Neural Networks Accelerate the Screening of Optoelectronic Properties of MetalâDrganic Frameworks. 2023 , 14, 1239-1245	Ο
384	Utilization of APTES-functionalized coconut waste-based cellulose microfiber/zeolitic-imidazolate framework-8 composite for curcumin delivery. 2023 , 100332	0
383	MOFs for Electrochemical Energy Conversion and Storage. 2023 , 11, 65	1

382	N,Zn-Doped Fluorescent Sensor Based on Carbon Dots for the Subnanomolar Detection of Soluble Cr(VI) Ions. 2023 , 23, 1632	О
381	Nanocomposite-Based Electrochemical Sensors for Neurotransmitters Detection in Neurodegenerative Diseases. 2023 , 11, 103	1
380	Hollow-Particles Quasi-Solid-State Electrolytes with Biomimetic Ion Channels for High-Performance Lithium-Metal Batteries. 2206655	1
379	Metal-Organic Frameworks for Photocatalytic Water Splitting and CO 2 Reduction.	О
378	Metal-organic framework-based nanostructured catalysts: Applications in biomass conversion. 2023 , 340, 127482	О
377	Dual-optimization strategy engineered Ti-based metal-organic framework with Fe active sites for highly-selective CO2 photoreduction to formic acid. 2023 , 327, 122418	O
376	Analysis and evaluation of machine learning applications in materials design and discovery. 2023 , 35, 105494	О
375	Grand canonical Monte Carlo simulation of the adsorption and separation of carbon dioxide and methane using functionalized Mg-MOF-74. 2023 , 9, 2852-2860	О
374	Grafting amino groups to enhance the adsorption of antimonate by MIL-100(Fe) for from natural water: Performance and mechanism. 2023 , 14, 100458	О
373	A functionalized Hf(iv)âBrganic framework introducing an efficient, recyclable, and size-selective heterogeneous catalyst for MPV reduction. 2023 , 47, 5347-5355	О
372	Defect-engineered metalâBrganic frameworks (MOF-808) towards the improved adsorptive removal of organic dyes and chromium (vi) species from water. 2023 , 47, 6433-6447	О
371	Ce-MOF infused membranes with enhanced molecular sieving in the application of dye rejection. 2023 , 9, 1216-1230	О
370	Extracting Metal-Organic Frameworks Data from the Cambridge Structural Database. 2023, 201-232	0
369	Dangling carboxylic-acid functionality in a fish-bone-shaped 2D framework as a hydrogen-bond-donating catalyst in Friedelâ©rafts alkylation.	О
368	(Controlled) Free radical (co)polymerization of multivinyl monomers: strategies, topological structures and biomedical applications. 2023 , 59, 4142-4157	O
367	Role of cobalt phthalocyanine on the formation of high-valent cobalt species revealed by in situ Raman spectroscopy. 2023 , 11, 8141-8149	O
366	An inclusive review and perspective on Cu-based materials for electrochemical water splitting. 2023 , 13, 4963-4993	0
365	Metal-organic frameworks (MOFs) as a unique theranostic nanoplatforms for therapy and imaging. 2023 , 323-350	О

364	Quantitatively Visualizing the Thermal Dehydration Process and Isotope Effect in Single HKUST-1 MetalâDrganic Framework Particles. 2023 , 14, 2099-2105	O
363	Fabrication of PA-PEI-MOF303(Al) by Stepwise Impregnation Layer-by-Layer Growth for Highly Efficient Removal of Ammonia. 2023 , 13, 727	Ο
362	CO2 adsorption study of the zeolite imidazolate framework (ZIF-8) and its g-C3N4 composites. 2023 , 58, 3947-3959	O
361	Advance of design and application in self-healing anticorrosive coating: a review.	O
360	Cu(II)-Metallized Three-Layered CuâBHQ Complex with Hierarchical Crystallite Morphologies Synthesized via ReactionâDiffusion. 2023 , 39, 2641-2651	O
359	Single atom Pd1/ZIF-8 catalyst via partial ligand exchange.	Ο
358	Rational design and synthesis of advanced metal-organic frameworks for electrocatalytic water splitting. 2023 , 66, 943-965	O
357	Coupling Dielectric Functionality with Magnetic Properties in Coordination Metal Complexes.	O
356	A LDH Template Triggers the Formation of a Highly Compact MIL-53 Metal-Organic Framework Membrane for Acid Upgrading. 2023 , 135,	0
355	Confining Water Nanotubes in a Cu10O13-Based MetalâDrganic Framework for Propylene/Propane Separation with Record-High Selectivity. 2023 , 145, 8043-8051	O
354	Thermodynamic-kinetic synergistic separation of CH 4 $\!\!/$ N 2 on a robust aluminum-based metal-organic framework.	О
353	Gold Complexes in Anticancer Therapy: From New Design Principles to Particle-Based Delivery Systems.	Ο
352	Ir-doped Co-BDC MOF as efficient bifunctional catalyst for overall electrochemical water splitting.	О
351	An integrated supramolecular fungicide nanoplatform based on pH-sensitive metalâBrganic frameworks. 2023 , 108400	O
350	Deep eutectic solvent-imprinted polymer based on magnetic UiO-66-NH2 for fast and selective removal of benzydamine hydrochloride in environmental samples. 2023 , 375, 121343	О
349	Tackling orientation of metal-organic frameworks (MOFs): The quest to enhance MOF performance. 2023 , 481, 215043	O
348	Near-infrared light triggered degradation of metalâBrganic frameworks for spatiotemporally-controlled protein release. 2023 , 49, 101821	0
347	Enzyme hybrid nanoflowers and enzyme@metalâBrganic frameworks composites: fascinating hybrid nanobiocatalysts. 1-24	Ο

346	Hybrid nanostructures based on gold nanoparticles and functional coordination polymers: Chemistry, physics and applications in biomedicine, catalysis and magnetism. 2023 , 480, 215025	1
345	Increasing Accessible Active Site Density of Non-Precious Metal Oxygen Reduction Reaction Catalysts through Ionic Liquid Modification.	Ο
344	Multifunctional Metalâ�rganic Framework (MOF)-Based Nanoplatforms for Crop Protection and Growth Promotion.	Ο
343	Preservation of Proteins in Human Plasma through Metalâ©rganic Framework Encapsulation.	Ο
342	Confined Growth of MoS 2 by using a Two-Dimensional Metal-Organic Framework for Efficient Hydrogen Evolution.	0
341	Theoretical and Experimental Study for Cross-Coupling Aldol Condensation over Mono- and Bimetallic UiO-66 Nanocatalysts. 2023 , 6, 5422-5433	Ο
340	Enantioseparation/Recognition based on nano techniques/materials.	Ο
339	Localized surface plasmon resonance sensing of SO2 and H2S using zeolitic imidazolate framework-8. 2023 , 383, 133585	Ο
338	Post-synthesis modification of metalâBrganic framework boosts solvent-free enzymatic esterifications. 2023 , 421, 88-94	Ο
337	Carbon nanomaterials-PEDOT: PSS based electrochemical ionic soft actuators: Recent development in design and applications. 2023 , 354, 114277	Ο
336	Remote substituent effects on catalytic activity of metal-organic frameworks: a linker orbital energy model. 2023 , 9,	0
335	Facilitating the proton conductivity of polyvinyl alcohol based proton exchange membrane by phytic acid encapsulated Zn-azolate MOF. 2023 , 172, 48-56	Ο
334	Ti-based MOF derived by functionalization for selective removal of Pb(II) and Hg(II) from aqueous media. 2023 , 290, 116337	0
333	Preparation of ZrC embedded carbon rods via thermal decomposition of metal organic frameworks. 2023 , 28, 101716	Ο
332	Synthesize and characterization of ZIF-8/NaP zeolite composites as a stable acid-base catalyst for organic reactions. 2023 , 236, 116372	0
331	Construction of novel polyaniline-intercalated hierarchical porous V2O5 nanobelts with enhanced diffusion kinetics and ultra-stable cyclability for aqueous zinc-ion batteries. 2023 , 463, 142425	0
330	Spike Current Induction by Photogenerated Charge Accumulation at the Surface Sites of Porous Porphyrinic Zirconium Metal-Organic Framework Electrodes in Photoelectrochemical Cells. 2023 , 96, 321-327	0
329	Functional nanomaterials for selective uranium recovery from seawater: Material design, extraction properties and mechanisms. 2023 , 483, 215097	O

328	Recent advances in metal/covalent organic frameworks based materials: Their synthesis, structure design and potential applications for hydrogen production. 2023 , 483, 215066	1
327	Influence of surface chemistry and channel shapes on the lithium-ion separation in metal-organic-framework-nanochannel membranes. 2023 , 674, 121511	O
326	Design strategies for coordination polymers as electrodes and electrolytes in rechargeable lithium batteries. 2023 , 483, 215084	0
325	Crystal structure, photomagnetic and dielectric properties of a cyanido-bridged Cu-Mo assembly film. 2023 , 550, 121434	O
324	Two-dimensional materials for boosting the performance of perovskite solar cells: Fundamentals, materials and devices. 2023 , 153, 100727	O
323	Electrochemical deposition for metal organic Frameworks: Advanced Energy, Catalysis, sensing and separation applications. 2023 , 937, 117417	O
322	Recent progress in mixed rare earth metal-organic frameworks: From synthesis to application. 2023 , 485, 215121	0
321	Efficient adsorption and photocatalytic degradation of water emerging contaminants through nanoarchitectonics of pore sizes and optical properties of zirconium-based MOFs. 2023 , 451, 131113	0
320	A DFT study on MOFs with rhodium-coordinated organic phosphine linkers modified by functional groups for catalytic hydroformylation of 1-butene. 2023 , 35, 105725	0
319	Synchrotron based transient x-ray absorption spectroscopy for emerging solid-state energy materials. 2023 , 4, 021303	0
318	Facile synthesis and characterisations of novel Mn-1,2,4-triazole framework (UPMOF-4) as a promising electrode material for supercapattery device. 2023 , 62, 106867	0
317	Metal organic frameworks (MOFs) for the removal of dissolved silica before reverse osmosis desalination. 2023 , 11, 109844	O
316	MOF-based surface tailoring the near-infrared luminescence property of gold nanoclusters for ratiometric fluorescence sensing of acetylcholinesterase. 2023 , 385, 133695	0
315	A facile route to metal-oxide nanocrystals by direct pyrolysis of metal-organic frameworks. 2023 , 341, 134221	O
314	Deep dive into anionic metalâBrganic frameworks based quasi-solid-state electrolytes. 2023 , 81, 313-320	0
313	Expanding nonpolar pore surfaces in stable ethane-selective MOF to boost ethane/ethylene separation performance. 2023 , 315, 123642	O
312	Interfacial synthesis: a scalable fabrication method of two-dimensional membranes. 2023, 40, 100903	0
311	The study of electrochemical hydrogen storage behavior of the UiO-66 framework on the metal/reduced graphene oxide substrate. 2023 , 341, 127624	O

310	Structure-directed growth and morphology of multifunctional metal-organic frameworks. 2023 , 484, 215101	0
309	Involvement of metal organic frameworks in wearable electrochemical sensor for efficient performance. 2023 , 38, e00200	0
308	High efficient removal of U(VI) by covalent organic frameworks fabricated by mechanochemical method: Adsorption process, mechanism and surface complexation modeling. 2023 , 11, 109763	0
307	Application and modification of nickel-based metal-organic frameworks in electrochemical sensing. 2023 , 2, 100053	O
306	Designed metal-organic frameworks with potential for multi-component hydrocarbon separation. 2023 , 484, 215111	O
305	Marine biomass metal-organic framework hybrid evaporators for efficient solar water purification. 2023 , 556, 116577	O
304	Organic ligands regulate the environmental impacts of metal-organic frameworks on nitrogen-fixing bacterium Azotobacter vinelandii. 2023 , 452, 131373	0
303	Theoretical studies on the role of water in ionic liquids at ZIF (IL@ZIF) complex and its effect on selective CO2 separation. 2023 , 22, 100376	O
302	A robust and ultra-high-surface hydrogen-bonded organic framework promoting high-efficiency solid phase microextraction of multiple persistent organic pollutants from beverage and tea. 2023 , 415, 135790	0
301	Photoelectrochemical water splitting with dual-photoelectrode tandem and parallel configurations: Enhancing light harvesting and carrier collection efficiencies. 2023 , 38, 102813	0
300	Recent advances in two-dimensional metal-organic frameworks as an exotic candidate for the evaluation of redox-active sites in energy storage devices. 2023 , 64, 107142	0
299	Construction of dual-hydrophilic metal-organic framework with hierarchical porous structure for efficient glycopeptide enrichment. 2023 , 259, 124505	O
298	Anchoring Au on UiO-66 surface with thioglycolic acid for simultaneous SERS detection of paraquat and diquat residues in cabbage. 2023 , 190, 108563	0
297	Recent electrochemical-energy-storage applications of metalâBrganic frameworks featuring iron-series elements (Fe, Co, and Ni). 2023 , 65, 107217	O
296	MOF Linker Extension Strategy for Enhanced Atmospheric Water Harvesting. 2023, 9, 551-557	0
295	Inorganic nanoparticles as scaffolds for bioorthogonal catalysts. 2023 , 195, 114730	1
294	Hydrogen Evolution upon Ammonia Borane Solvolysis: Comparison between the Hydrolysis and Methanolysis Reactions. 2023 , 5, 886-899	0
293	Optimization of UiO-66/CaCl2 composite material for thermal energy storage. 2023 , 355, 112574	Ο

292	Dye-embedded NanoMOF as a turn-on fluorescent sensor for selective and sensitive detection of hydrogen sulfide. 2023 , 356, 112594	Ο
291	Challenges and opportunities for N-hydroxyphthalimide supported over heterogeneous solids for aerobic oxidations. 2023 , 486, 215141	O
290	Hydrophobic ZIF-8 covered active carbon for CO2 capture from humid gas. 2023 , 121, 331-337	0
289	Enrichment and determination of nine nitrofurans in aquaculture water and aquatic feed by using metalâBrganic framework NDO-Zn. 2023 , 190, 108639	O
288	Microfluidic formulation of anticancer peptide loaded ZIF-8 nanoparticles for the treatment of breast cancer. 2023 , 642, 810-819	O
287	Insights into the uses of two azine decorated d10-MOFs for corrosion inhibition application on mild steel surface in saline medium: Experimental as well as theoretical investigation. 2023 , 381, 121789	O
286	Enhanced performance of ZIF-8 nanocrystals hybrid monolithic composites via an in-situ growth strategy for efficient capillary microextraction of perfluoroalkyl phosphonic acids. 2023 , 259, 124452	О
285	A three-dimensional terbium metal ʿal͡brganic framework fluorescent sensor for efficient detection of chloroquine phosphate in serum. 2023 , 190, 108743	O
284	Synthesis, characterization and comprehensive study of a 3D Co(II) coordination polymer antibacterial activity. 2023 , 1283, 135224	O
283	Determination of trace tellurium by photochemical vapor generation-atomic fluorescence spectrometry using bifunctional Co-MOF-74 for preconcentration and sensitization. 2023 , 1247, 340859	O
282	Construction of high-density proton transport channels in phosphoric acid doped polybenzimidazole membranes using ionic liquids and metal-organic frameworks. 2023 , 560, 232665	1
281	Fabrication of Double-Stranded Vinyl Polymers Mediated by Coordination Nanochannels. 2023 , 145, 2448-2454	1
280	Metal organic frameworks as promising sensing tools for electrochemical detection of persistent heavy metal ions from water matrices: A concise review. 2023 , 318, 137920	О
279	Correlating the role of nanofillers with active layer properties and performance of thin-film nanocomposite membranes. 2023 , 550, 116370	O
278	Metal-Organic Frameworks for Photocatalytic Water Splitting and CO 2 Reduction. 2023, 62,	1
277	Scalable Green Synthesis of Robust Ultra-Microporous Hofmann Clathrate Material with Record C 3 H 6 Storage Density for Efficient C 3 H 6 /C 3 H 8 Separation. 2023 , 135,	O
276	Scalable Green Synthesis of Robust Ultra-Microporous Hofmann Clathrate Material with Record C 3 H 6 Storage Density for Efficient C 3 H 6 /C 3 H 8 Separation. 2023 , 62,	О
275	New Avenues for Organic Redox Materials as Sustainable Lithium-ion Battery Cathodes. 2023 , 5, 21-34	O

274	Monitoring the Solution Persistence of Porous Coordination Cages with Diffusion NMR Spectroscopy and Cryogenic Transmission Electron Microscopy. 2023 , 127, 2379-2386	0
273	Conditional Graph Regression for Complex Chemical Systems with Heterogeneous Substructures. 2022 ,	O
272	Two-photon 3D-nanostructuring in metal-organic frameworks. 2023 ,	О
271	Nanoconfinement-Guided Construction of Nanozymes for Determining H 2 O 2 Produced by Sonication. 2023 , 135,	O
270	The Sustainable Synthesis of Methanol âlRenewable Energy, Carbon Dioxide and an Anthropogenic Carbon Cycle. 2014 , 193-258	0
269	Nanoconfinement-Guided Construction of Nanozymes for Determining H 2 O 2 Produced by Sonication. 2023 , 62,	O
268	Computational screening and machine learning of hydrophobic metal-organic frameworks for removal of chemical warfare agents from air. 2023 , 31, 101738	0
267	Nanomaterials for Molecular Detection and Analysis of Extracellular Vesicles. 2023 , 13, 524	1
266	Structural and electronic properties of the Metal-Organic Frameworks Mâ�RJCâ� (M´=´Cu, Fe, Co or Zn): An in-silico approach aiming the application in the separation of alcohols. 2023 , 233, 116324	О
265	Enhancement of the intrinsic fluorescence of ZIF-8 via post-synthetic cation exchange with Cd2+ and its incorporation into PDMS films for selective sulfide optical sensing. 2023 , 28, 101366	О
264	Application of metal-organic frameworks, covalent organic frameworks and their derivates for the metal-air batteries. 2023 ,	0
263	Metalâ©rganic Framework-Based Self-Supporting Nanoparticle Arrays for Catalytic Water Splitting. 2023 , 6, 1965-1974	O
262	Biomedical Applications of Titanium Alloys Modified with MOFsâldurrent Knowledge and Further Development Directions. 2023 , 13, 257	0
261	Boosting Xe/Kr separation by a Mixed-linker strategy in Radiation-Resistant Aluminum-Based Metal 'âl'Drganic frameworks. 2023 , 311, 123335	O
260	Boosting Activity and Selectivity of UiO-66 through Acidity/Alkalinity Functionalization in Dimethyl Carbonate Catalysis. 2208238	0
259	Adsorption of a PFAS Utilizing MOF-808: Development of an Undergraduate Laboratory Experiment in a Capstone Course. 2023 , 100, 861-868	O
258	In Situ Growth of Ni-MOF Nanorods Array on Ti3C2Tx Nanosheets for Supercapacitive Electrodes. 2023 , 13, 610	1
257	A rapid self-healing glassy polymer/metalâbrganic-framework hybrid membrane at room temperature. 2023 , 52, 3148-3157	O

256	Sequential Sol-Gel Self-Assembly and Nonclassical Gel-Crystal Transformation of the Metal-Organic Framework Gel. 2206718	O
255	Ionic liquid assisted in situ growth of nano-confined ionic liquids/metal-organic frameworks nanocomposites for monolithic capillary microextraction of microcystins in environmental waters. 2023 , 1692, 463849	1
254	Metal Organic Framework Template-Guided Electrochemical Lithography.	O
253	Temperature-swing molecular exclusion separation of hexane isomers in robust MOFs with double-accessible open metal sites. 2023 , 460, 141743	O
252	ZIF-67/SA@PVDF Ultrafiltration Membrane with Simultaneous Adsorption and Catalytic Oxidation for Dyes. 2023 , 15, 2879	0
251	Toward MOF@Polymer CoreâBhell Particles: Design Principles and Potential Applications. 2023 , 56, 462-474	O
250	Inorganic Self-assembly: Going Bio.	О
249	Metal-Organic Framework-Based Colloidal Particle Synthesis, Assembly, and Application. 2023 , 88,	O
248	Different Dimensional Copper-Based MetalâDrganic Frameworks with Enzyme-Mimetic Activity for Antibacterial Therapy. 2023 , 24, 3173	1
247	ZIF-67 blended PVDF membrane for improved Congo red removal and antifouling properties: A correlation establishment between morphological features and ultra-filtration parameters. 2023 , 320, 138075	O
246	In Silico High-Throughput Design and Prediction of Structural and Electronic Properties of Low-Dimensional MetalâDrganic Frameworks.	O
245	Spin-Gapless Semiconductors and Quantum Anomalous Hall Effects of Tetraazanaphthotetraphene-Based Two-Dimensional Transition-Metal Organic Frameworks on Spintronics and Electrocatalysts for CO2 Reduction. 2023 , 5, 1243-1251	O
244	Dimensional expansion of 1D zigzag chains to a 2D two-fold interpenetrated metalâbrganic framework for adsorption of lanthanide cations and white light emission. 2023 , 25, 1637-1642	О
243	Synthesis and Post-Processing of Chemically Homogeneous Nanothreads from 2,5-Furandicarboxylic Acid**. 2023 , 135,	O
242	Pore topology analysis in porous molecular systems. 2023 , 10,	0
241	A Bimetal Sulfide Nanocomposites Displaying Photocatalytic Performance Based on a MOFs Template Method. 2022 , 92, 2763-2769	O
240	Molecular Engineering of MetalâDrganic Layers for Sustainable Tandem and Synergistic Photocatalysis.	О
239	Cu(i)-containing MOF as an efficient catalyst for the reactions of carbon dioxide and propargylic alcohols to form carbonates at room temperature. 2023 , 47, 4784-4789	O

238	In Situ Synthesis of ZIF-67 Thin Films Using Low Temperature Chemical Vapor Deposition to Fabricate All-Solid-State Flexible Interdigital in-Planar Microsupercapacitors. 2023 , 2023, 1-14	0
237	State and future implementation perspectives of porous carbon-based hybridized matrices for lithium sulfur battery. 2023 , 481, 215055	Ο
236	Polarization-dependent plasmonic heating in epitaxially grown multilayered metalâBrganic framework thin films embedded with Ag nanoparticles. 2023 , 5, 1795-1801	0
235	Synthesis and Post-Processing of Chemically Homogeneous Nanothreads from 2,5-Furandicarboxylic Acid**. 2023 , 62,	Ο
234	Rationally Designed Manganese-Based MetalâDrganic Frameworks as Altruistic Metal Oxide Precursors for Noble Metal-Free Oxygen Reduction Reaction. 2023 , 62, 3026-3035	1
233	Phase Purity Regulated by Mechano-Chemical Synthesis of Metalâ©rganic Frameworks for the Electrocatalytic Oxygen Evolution Reaction. 2023 , 62, 3457-3463	Ο
232	A novel design of Co3O4@SiO2/PPy for supercapacitor electrode with improved performance. 2023 , 34,	Ο
231	Reversible transformations between the non-porous phases of a flexible coordination network enabled by transient porosity. 2023 , 15, 542-549	O
230	A 3D Coordination Polymer Based on Syn-Anti Bridged [Mn(RCOO)2]n Chains Showing Spin-Canting with High Coercivity and an Ordering Temperature of 14 K. 2023 , 9, 55	О
229	Real-Time Quantifying Microdroplet Synthesis of Metalâ©rganic Framework Colloids Using Gas-Phase Electrophoresis. 2023 , 95, 4513-4520	Ο
228	Estudio computacional de la adsorci6n de metanol en estructuras zeoliticas de imidazol ZIF-71 y ZIF-71 (CIBr): Mecanismo de adsorciñ. 2023 , 11, 1-5	О
227	Molecular Layer Deposition of Zeolitic Imidazolate Framework-8 Films. 2023 , 35, 1684-1690	O
226	Post-Synthetic Surface Modification of MetalâDrganic Frameworks and Their Potential Applications. 2023 , 7,	O
225	A Simple, Transition Metal Catalyst-Free Method for the Design of Complex Organic Building Blocks Used to Construct Porous Metalâ©rganic Frameworks. 2023 , 135,	Ο
224	Investigation of the Influence of Functionalization Strategy on Urea 2D MOF Catalytic Performance. 2023 , 62, 3498-3505	О
223	Carbonyl Chalcogenide Cluster-based Polymers. 2023 , 1-26	Ο
222	A modular platform for the precise assembly of molecular frameworks composed of ion pairs. 2023	0
221	MoSDeF-GOMC: Python Software for the Creation of Scientific Workflows for the Monte Carlo Simulation Engine GOMC. 2023 , 63, 1218-1228	1

220	Locking Effect in Metal@MOF with Superior Stability for Highly Chemoselective Catalysis. 2023 , 145, 4659-4666	Ο
219	A Simple, Transition Metal Catalyst-Free Method for the Design of Complex Organic Building Blocks Used to Construct Porous MetalâDrganic Frameworks. 2023 , 62,	O
218	Metal-Organic Frameworks for C6 Alkane Separation.	О
217	Metal-Organic Frameworks for C6 Alkane Separation.	O
216	MIL-88A derived CoFe-layered double hydroxides with optimized composition for the enhanced electrocatalytic oxygen evolution reaction. 2023 , 47, 5555-5563	0
215	A Diode-Like Dye-Cu Anisotropic Junction in a Coordination Polymer as a Logic State Ratchet for Intratumor Redox Photomodulation.	Ο
214	Conceptual and Practical Aspects of MetalâDrganic Frameworks for SolidâGas Reactions.	О
213	Road Map for In Situ Grown Binder-Free MOFs and Their Derivatives as Freestanding Electrodes for Supercapacitors. 2207713	O
212	A Diode-Like Dye-Cu Anisotropic Junction in a Coordination Polymer as a Logic State Ratchet for Intratumor Redox Photomodulation.	О
211	Guest Solvent-Directed Isomeric MetalâDrganic Frameworks for the Kinetically Favorable Separation of Carbon Dioxide and Methane. 2023 ,	Ο
210	NiCo2O4 spinel supported N-dopped porous Hollow carbon derived MOF functionalized SiO2 for efficient ORR electrocatalysis. 2023 ,	0
209	Substratverankerte Diarylethen-basierte Filme aus metallorganischem Gerßt als gerichtete Photoaktoren.	Ο
208	Chromium and cobalt bimetallic MOF material as an effective and stable catalyst for the decomposition of cyclohexyl hydrogen peroxide. 2023 , 352, 112497	0
207	Ring-Oven-Assisted In Situ Synthesis of MetalâDrganic Frameworks on the Lab-On-Paper Device for Chemiluminescence Detection of Nitrite in Whole Blood. 2023 , 95, 4362-4370	Ο
206	Defective MetalâDrganic Framework Nanocrystals as Signal Amplifiers for Electrochemical Dopamine Sensing. 2023 , 6, 3675-3684	0
205	Quasi-HKUST-1 Nanostructures with Enhanced Catalytic Activity and Water Stability for Bacteria-Infected Diabetic Wound Therapy. 2023 , 6, 3835-3847	O
204	Synthesis and Design of Hybrid Metalloporphyrin Polymers Based on Palladium (II) and Copper (II) Cations and Axial Complexes of Pyridyl-Substituted Sn(IV)Porphyrins with Octopamine. 2023 , 15, 1055	0
203	Substrate-Bound Diarylethene-Based Anisotropic MetalâDrganic Framework Films as Photoactuators with a Directed Response.	Ο

202	Zeolites as Selective Adsorbents for CO2 Separation. 2023 , 6, 2634-2656	O
201	Multicomponent 3d-Metal Nanoparticles in Amorphous Carbon Sponge for Electrocatalysis Water Splitting. 2023 , 6, 3537-3548	O
200	Understanding the Chemistry of Metal Oxide to MetalâDrganic Framework Reactions for Morphology Control. 2023 , 35, 1891-1900	0
199	Constructing NaYF4: Yb, Tm@NH2-MIL-125(Ti) with up-conversion photoluminescence for enhanced full-spectrum photocatalytic performance.	O
198	Ionothermal Synthesis of Metal-Organic Frameworks Using Low-Melting Metal Salt Precursors**. 2023 , 62,	О
197	Ionothermal Synthesis of Metal-Organic Frameworks Using Low-Melting Metal Salt Precursors**. 2023 , 135,	O
196	A LDH Template Triggers the Formation of a Highly Compact MIL-53 Metal-Organic Framework Membrane for Acid Upgrading. 2023 , 62,	O
195	Enzyme immobilization as a sustainable approach toward ecological remediation of organic-contaminated soils: Advances, issues, and future perspectives. 1-25	O
194	Construction of MOFs-based nanocomposite membranes for emerging organic contaminants abatement in water. 2023 , 17,	1
193	One-dimensional nanostructured electrode materials based on electrospinning technology for supercapacitors. 2023 , 134, 109803	O
192	ZIF-8@Rhodamine B as a Self-Reporting Material for Pollutant Extraction Applications. 2023, 13, 842	0
191	Synergistic Effects of Lewis Acidâ B ase Pair Sites-Hf-MOFs with Functional Groups as Distinguished Catalysts for the Cycloaddition of Epoxides with CO2. 2023 , 62, 3817-3826	O
190	Porphyrinoid Photosensitizers for Targeted and Precise Photodynamic Therapy: Progress in Fabrication.	O
189	Metal-Organic Framework Functionalized Bioceramic Scaffolds with Antioxidative Activity for Enhanced Osteochondral Regeneration. 2206875	O
188	Morphology-Engineering Construction of Anti-Aggregated Co/N-Doped Hollow Carbon from Metal-Organic Frameworks for Efficient Biomass Upgrading. 2207689	O
187	Customizing Metal-Organic Frameworks by Lego-Brick Strategy for One-Step Purification of Ethylene from a Quaternary Gas Mixture. 2208182	O
186	Gold Complexes in Anticancer Therapy: From New Design Principles to Particle-Based Delivery Systems.	O
185	Research on Improved MOF Materials Modified by Functional Groups for Purification of Water. 2023 , 28, 2141	O

184	Metal-organic frameworks-derived layered double hydroxides: From controllable synthesis to various electrochemical energy storage/conversion applications. 2023 , 313, 102865	0
183	Metal-Organic Frameworks Based Chemical Sensors. 2023 , 36-53	O
182	Quasi-Solid Electrolyte Interphase Boosting Charge and Mass Transfer for Dendrite-Free Zinc Battery. 2023 , 15,	O
181	MOF/Al2O3 composites obtained by immobilization of MIL-53(Cr) or MIL-101(Cr) on ⊞lumina: Preparation and characterization. 2023 , 353, 112518	O
180	Effective Extraction of Bisphenol Compounds from Milk with Stable Zr(IV)-Based MetalâDrganic Framework Particles. 2023 , 71, 4272-4280	O
179	Pretreatment and catalytic conversion of lignocellulosic and algal biomass into biofuels by metal organic frameworks. 2023 , 539, 112893	O
178	Stoichiometry-Directed Two-Level Hierarchical Growth of Lanthanide-Based Supramolecular Nanoarchitectures.	О
177	Site-specific anisotropic assembly of amorphous mesoporous subunits on crystalline metalâBrganic framework. 2023 , 14,	O
176	Application of biochar and carbon-based adsorbent for CO2 capture. 2023, 239-269	0
175	Research Progress of Synthesis Methods for Crystalline Porous Materials. 2023 , 81, 146	O
174	MOFs Preparation and Synthetic Approaches. 2023, 31-44	O
173	Zirconium-Based MetalâDrganic Frameworks as Reusable Antibacterial Peroxide Carriers for Protective Textiles. 2023 , 35, 2342-2352	O
172	MOFs for desulfurization of fuel oil: Recent advances and future insights.	0
171	Tunable Fluorescent Artificial Receptor Biosensor Based on Programmable Lanthanide Metal-Organic Framework for Highly Selective Neurotransmitter Detection. 2300309	O
170	Electronic State and Microenvironment Modulation of Metal Nanoparticles Stabilized by MOFs for Boosting Electrocatalytic Nitrogen Reduction. 2210669	O
169	Stereospecific Single-Pot Route to Chiral Imidazolidines from Aziridines Using a 2D Cu MetalâDrganic Framework. 2023 , 62, 4540-4549	O
168	N-Containing Carbons Derived from Microporous Coordination Polymers for Use in Post-Combustion Flue Gas Capture. 2212283	0
167	Engineering Flexible Metal-Phenolic Networks with Guest Responsiveness via Intermolecular Interactions. 2023 , 135,	O

166	Porous Carbon in Food Industry. 2023 , 733-761	O
165	Multifunctional three-dimensional porous MOFs derived Fe/C/carbon foam for microwave absorption, thermal insulation and infrared stealth. 2023 , 49, 18861-18869	O
164	Direct synthesis of amorphous coordination polymers and metalâBrganic frameworks. 2023 , 7, 273-286	O
163	Synthesis and Fabrication of Advanced Carbon Nanostructures. 2023 , 3-19	O
162	Coordination Sphere Flexibility Leads to Elastic Deformation in a One-Dimensional Coordination Polymer Crystal. 2023 , 35, 2495-2502	1
161	Engineering Flexible Metal-Phenolic Networks with Guest Responsiveness via Intermolecular Interactions. 2023 , 62,	O
160	Toward Scalable Nanofluidic Osmotic Power Generation from Hypersaline Water Sources with a MetalâDrganic Framework Membrane.	Ο
159	Modulated self-assembly of hcp topology MOFs of Zr/Hf and the extended 4,4?-(ethyne-1,2-diyl)dibenzoate linker. 2023 , 25, 2119-2124	O
158	Toward Scalable Nanofluidic Osmotic Power Generation from Hypersaline Water Sources with a MetalâDrganic Framework Membrane.	0
157	Nanofluid-based wooden imprinted membranes with precise-designed nanocages for ultrafast and super-sensitive recognition and separation.	O
156	Mixed-Matrix Membranes Containing Porous Materials for Gas Separation: From MetalâDrganic Frameworks to Discrete Molecular Cages. 2023 ,	0
155	An ultramicroporous pillar-layer metal-organic framework for high sieving separation of ethylene from ethane. 2023 , 354, 112532	O
154	A mild one-pot self-assembly approach to encapsulating enzymes into metal-organic framework with Asp-boosted enzymatic performance for clean production. 2023 , 401, 136710	0
153	Recent Advances in the Development of MetalâDrganic Frameworks-based Photocatalysts for Water Splitting and CO2 Reduction. 2023 , 157-192	O
152	Switching of Guest Selectivity for the Inclusion of Regioisomers of Monosubstituted Phenols with Crystals of p-tert-Butylcalix[4]arene.	0
151	Molecular switching on surfaces. 2023 , 100596	O
150	Largely Pseudocapacitive Two-Dimensional Conjugated MetalâDrganic Framework Anodes with Lowest Unoccupied Molecular Orbital Localized in Nickel-bis(dithiolene) Linkages. 2023 , 145, 6247-6256	O
149	Giant Redox Entropy in the Intercalation vs Surface Chemistry of Nanocrystal Frameworks with Confined Pores. 2023 , 145, 6257-6269	O

148	Opportunities from Metal Organic Frameworks to Develop Porous Carbons Catalysts Involved in Fine Chemical Synthesis. 2023 , 13, 541	О
147	Influence of the Solvent on the Assembly of Ni3(hexaiminotriphenylene)2 Metalâ©rganic Framework Nanosheets at the Air/Liquid Interface. 2023 , 96, 274-282	O
146	Metal-Organic Framework Supported Copper Photoredox Catalysts for Iminyl Radical-Mediated Reactions.	О
145	Metal-Organic Framework Supported Copper Photoredox Catalysts for Iminyl Radical-Mediated Reactions.	O
144	When Polymorphism in MetalâDrganic Frameworks Enables Water Sorption Profile Tunability for Enhancing Heat Allocation and Water Harvesting Performance.	O
143	Metal-organic frameworks and plastic: an emerging synergic partnership. 2023 , 24,	O
142	Theoretical Screening and experimental validation of M3(2,3,6,7,10,11-hexahydroxytriphenylene)2 for electrocatalytic CO2 reduction. 2023 , 540, 113033	О
141	Removal of metals from water using MOF-based composite adsorbents.	O
140	Recent advances in covalent organic frameworks (COFs) for wound healing and antimicrobial applications. 2023 , 13, 8136-8152	О
139	Absorbing stress via molecular crumple zones: Strain engineering flexibility into the rigid UiO-66 material. 2023 ,	O
138	Incorporating Highly Anisotropic Four-Coordinate Co(II) Ions within One-Dimensional Coordination Chains. 2023 , 23, 2980-2987	О
137	Bodipy-Based MetalâDrganic Frameworks Transformed in Solid States from 1D Chains to 2D Layer Structures as Efficient Visible Light Heterogeneous Photocatalysts for Forging CâB and CâD Bonds. 2023 , 145, 6123-6134	O
136	Computational design of the novel building blocks for the metal-organic frameworks based on the organic ligand protected Cu4 cluster. 2023 ,	О
135	Utilization of Functionalized MetalâDrganic Framework Nanoparticle as Targeted Drug Delivery System for Cancer Therapy. 2023 , 15, 931	O
134	Copper ion based metalâBrganic framework nanomaterials with roughness enhanced protein adhesion for high-efficiency hemoglobin separation. 2023 , 47, 7245-7252	О
133	Thermal Transformation of Polyacrylonitrile Accelerated by the Formation of Ultrathin Nanosheets in a MetalâDrganic Framework. 2023 , 12, 415-420	O
132	Nanostructure-dependent indentation fracture toughness of metal-organic framework monoliths. 2023 , 1, 100009	0
131	Ionic liquids and deep eutectic solvents in wastewater treatment: recent endeavours.	O

130	Flux-assisted polytypism in the [Na2Cl]GaQ2 heterolayered salt-inclusion chalcogenide family. 2023 , 25, 2307-2312	0
129	Structureâproperty relationship of dipyridylâûu polymers containing inorganic clusters Te/ SeFe 3 (CO) 9.	Ο
128	Quintuple Function Integration in Two-Dimensional Cr(II) Five-Membered Heterocyclic Metal Organic Frameworks via Tuning Ligand Spin and Lattice Symmetry. 2023 , 145, 7869-7878	Ο
127	Heterogeneous intercalated metal-organic framework active materials for fast-charging non-aqueous Li-ion capacitors. 2023 , 14,	Ο
126	Recent advances in antiviral coatings on facemasks during the COVID-19 pandemic. 2023, 267-293	0
125	ReDD-COFFEE: a ready-to-use database of covalent organic framework structures and accurate force fields to enable high-throughput screenings. 2023 , 11, 7468-7487	Ο
124	Porous polyoxometalate-based metal-organic frameworks (POMOs). 2023 , 185-254	Ο
123	Sintering MetalâDrganic Framework Gels for Application as Structural Adhesives. 2300298	Ο
122	Metal-Organic Frameworks Applications in Synergistic Cancer Photo-Immunotherapy. 2023 , 15, 1490	0
121	MOF-on-MOF Composites with UiO-66-Based Materials as Photocatalysts for the Overall Water Splitting under Sunlight Irradiation. 2023 , 37, 5457-5468	Ο
120	Pure Silica with Ordered Silanols for Propylene/Propane Adsorptive Separation Unraveled by Three-Dimensional Electron Diffraction. 2023 , 145, 6853-6860	0
119	MicMec: Developing the Micromechanical Model to Investigate the Mechanics of Correlated Node Defects in UiO-66. 2023 , 127, 6060-6070	Ο
118	Nanofluid-based wooden imprinted membranes with precise-designed nanocages for ultrafast and super-sensitive recognition and separation.	0
117	Pillared-Layer Metal-Organic Frameworks (MOFs) for Photodegradation of Methyl Orange in Wastewater. 2202843	O
116	A Microporous Metal-Organic Framework with Unique Aromatic Pore Surfaces for High Performance C 2 H 6 /C 2 H 4 Separation.	0
115	A Microporous Metal-Organic Framework with Unique Aromatic Pore Surfaces for High Performance C 2 H 6 /C 2 H 4 Separation.	O
114	Polymer-Supported Oxidovanadium(IV) Complexes and Their Catalytic Applications in One-Pot Multicomponent Reactions Producing Biologically Active 2,4,5-Trisubstituted-1H-imidazoles. 2023 , 13, 615	0
113	Enhancing hydrophobicity via coreâßhell metal organic frameworks for high-humidity flue gas CO2 capture. 2023 ,	Ο

112	Highly-Efficient Ion Gating through Self-Assembled Two-Dimensional Photothermal Metal-Organic Framework Membrane.	О
111	Metal-Organic Framework Composites and Their Derivatives as Efficient Electrodes for Energy Storage Applications: Recent Progress and Future Perspectives.	0
110	Activating photocatalytic hydrogen evolution by constructing Ni-based organic layers and tailoring its crystal facets.	О
109	Mixed-Component MetalâDrganic Framework for Boosting Synergistic Photoactivation of C(sp3)âH and Oxygen. 2023 , 15, 16744-16754	O
108	Aligned Metalâ©rganic Framework Nanoplates in Mixed-Matrix Membranes for Highly Selective CO 2 /CH 4 Separation. 2202524	О
107	Continuous and ultrafast MOF synthesis using droplet microfluidic nanoarchitectonics.	O
106	Highly-Efficient Ion Gating through Self-Assembled Two-Dimensional Photothermal Metal-Organic Framework Membrane.	O
105	Recent advances in metalâBrganic framework-based photoelectrochemical and electrochemiluminescence biosensors.	O
104	Nanofluidic membrane for confined ion transport: From uniform to composite strategy. 2023,	О
103	Composite electrolyte with polyethylene oxide and metalâBrganic framework for lithium-ion conduction.	O
102	Catalytic oxidation of biomass-derived 5-hydroxymethylfurfural to 5-hydroxymethyl-2-furancarboxylic acid by Co-based MOFs. 2023 , 657, 119147	0
101	Water-stable MOFs and hydrophobically encapsulated MOFs for CO2 capture from ambient air and wet flue gas. 2023 ,	0
100	Ethylene Dimerization Performance of NiBTCs Synthesized Using Different Solvents. 2023, 13, 640	О
99	Bioadhesive and electroactive hydrogels for flexible bioelectronics and supercapacitors enabled by a redox-active coreâthell PEDOT@PZIF-71 system.	0
98	Current status and prospects of MOFs in controlled delivery of Pt anticancer drugs.	O
97	Unveiling the StructureâModulator Relationships in Thorium-Based MetalâDrganic Framework Crystallization. 2023 , 62, 5479-5486	O
96	Fundamentals of MOF Mechanics & Structure Mechanical Property Relationships. 2023, 1-64	О
95	Mesoporous Silica-Guided Synthesis of MetalâØrganic Framework with Enhanced Water Adsorption Capacity for Smart Indoor Humidity Regulation. 2300055	O

94	Metal ion-assisted supramolecular gelation. 2023,	О
93	Covalent Organic Frameworks for Extracting Water from Air.	О
92	Covalent Organic Frameworks for Extracting Water from Air.	0
91	Exploring Spin-Phonon Coupling in Magnetic 2D Metal-Organic Frameworks. 2023 , 13, 1172	o
90	Research Progress on Synthesis and Adsorption Properties of Porous Composite Adsorbents for Adsorption Cooling and Desalination Systems: A Mini-review. 2023 , 37, 4751-4768	0
89	Recent developments in 2D materials for energy harvesting applications.	О
88	Antimicrobial activity and cytotoxicity of cotton-polyester fabric coated with a metalabrganic framework and metal oxide nanoparticle.	O
87	Oriented attachment interfaces of zeolitic imidazolate framework nanocrystals.	O
86	Metal-Organic Frameworks with Rod Yttrium Secondary Building Units.	О
85	Dimensional Reduction of MetalâDrganic Frameworks for Enhanced Cryopreservation of Red Blood Cells.	О
84	Machine learning transferable atomic forces for large systems from underconverged molecular fragments.	0
83	Dimensional Reduction of MetalâDrganic Frameworks for Enhanced Cryopreservation of Red Blood Cells.	O
82	Microscopic Linker Distribution in Mixed-Linker Zeolitic Imidazolate Frameworks via Computational Raman Spectroscopy: Implications for Gas Separation. 2023 , 6, 5645-5652	o
81	A supported pyridylimineâllobalt catalyst for N-formylation of amines using CO2.	o
80	Advances in Cathodes for High-Performance Magnesium-Sulfur Batteries: A Critical Review. 2023 , 9, 203	0
79	Post-Synthetic Cyano-ferrate(II) Functionalization of a Metalâ©rganic Framework, NU-1000. 2023, 39, 4936-4942	O
78	Challenge, Advance and Emerging Opportunities for Metal-Organic Framework Glasses: from Dynamic Chemistry to Material Science and Noncrystalline Physics. 2023 , 81, 246	O
77	ZnO nanofiber skeleton induced robust zeolitic imidazolate framework membranes for gas separation. 2023 ,	О

76	Analytical device miniaturization for the detection of circulating biomarkers.	O
75	Epitaxial Single-Domain Cu-BTC MetalâDrganic Framework Thin Films and Foils by Electrochemical Conversion of Cuprous Oxide. 2023 , 15, 18440-18449	O
74	Weak Bonds, Strong Effects: Enhancing the Separation Performance of UiO-66 toward Chlorobenzenes via Halogen Bonding. 1340-1349	0
73	Fabrication of NiâMOFâII4@PAâBEI for Radon Removal under Ambient Conditions. 2023 , 11, 1069	O
72	A Non-Hydrolytic Solâtel Route to Organic-Inorganic Hybrid Polymers: Linearly Expanded Silica and Silsesquioxanes. 2023 , 9, 291	O
71	Adsorption of methylene blue from textile industrial wastewater using activated carbon developed from Rumex abyssinicus plant. 2023 , 13,	O
70	Preparation of mixed matrix membrane with high efficiency SO2 separation performance by photosensitive modification and enhanced adsorption of metalâ®rganic framework. 2023 , 58, 6185-6202	0
69	Degradation of bisphenol A by peroxymonosulfate activated with MIL-88B(Fe) derived CC-Fe/C catalysts: Effect of annealing temperature, performance and mechanism. 2023 , 177, 106660	O
68	Properties of poly (vinyl alcohol) films with embedded zeolitic imidazolate framework (ZIF-8) nanoparticles for food packaging applications.	O
67	Metal-Organic Framework Based Polymer Fibers: Review on Synthesis and Applications.	O
66	The Rise and Development of MOF-Based Materials for Metal-Chalcogen Batteries: Current Status, Challenges, and Prospects.	O
65	A database of ultrastable MOFs reassembled from stable fragments with machine learning models. 2023 ,	O
64	Iron-Complex-Based Supramolecular Framework Catalyst for Visible-Light-Driven CO2 Reduction.	0
63	Introduction to advances in electronic materials for clean energy conversion and storage applications. 2023 , 299-314	O
62	Understanding the Role of Synthetic Parameters in the Defect Engineering of UiO-66: A Review and Meta-analysis.	0
61	Oxidation State Dependent Conjugation Controls Electrocatalytic Activity in a Two-Dimensional Di-Copper MetalâDrganic Framework. 2023 , 127, 7299-7307	O
60	Directional Ionic Bonds.	0
59	Effect of Morphology on the Permeability of CO ₂ Across PSF/FCTF-1 Mixed Matrix Membranes. 944, 163-173	O

58	Underwater superoleophobic HKUST-1/PDA@SM membrane with excellent stability and anti-fouling performance for oil-in-water emulsion separation. 2023 , 121655	0
57	Covalent organic framework atropisomers with multiple gas-triggered structural flexibilities.	О
56	Self assembled PP membrane with photocatalytic self-cleaning performance for efficient oil/water emulsion separation. 2023 , 669, 131383	0
55	Fabrication of a Large-Area Flexible Scintillating Membrane for High-Resolution X-ray Imaging Using an AIEgen-Functionalized Metalâ®rganic Framework.	O
54	Ag/ZIF-8/PAN flexible SERS substrate with high sensitivity for the surface corrosion analysis.	0
53	Advances in Halloysite Nanotubes (HNTs)-Based Mixed-Matrix Membranes for CO 2 Capture.	o
52	Bioinspired Framework Catalysts: From Enzyme Immobilization to Biomimetic Catalysis.	0
51	Effect of modulator ligands on the growth of Co2(dobdc) nanorods.	o
50	Electrode materials for desalination of water via capacitive deionization.	O
49	Biomimetic Dual-Layer Imprinted UiO-66-Based Basswood Membranes for Ibuprofen Recognition and Separation.	o
48	Entropy driven disorderåBrder transition of a metalåBrganic framework with frustrated flexibility. 2023 , 11, 041118	0
47	A sustainable approach for heavy metal remediation from water using Carbon Dot based Composites: A Review. 2023 , 100295	O
46	Fabrication of Polyelectrolyte Sheets of Unimolecular Thickness via MOF-Templated Polymerization.	0
45	Electrosynthesis of polymer-grade ethylene via acetylene semihydrogenation over undercoordinated Cu nanodots. 2023 , 14,	O
44	Integration of MetalâDrganic Frameworks and Metals: Synergy for Electrocatalysis.	0
43	Improved quantum yield in geometrically constrained tetraphenylethylene-based metalâBrganic frameworks.	O
42	A Simple Method for Teaching Braggâष्ट Law in an Undergraduate Teaching Laboratory with the Use of MetalâDrganic Frameworks.	0
41	Conjugated Nonplanar Copper-Catecholate Conductive MetalâDrganic Frameworks via Contorted Hexabenzocoronene Ligands for Electrical Conduction.	0

40	Fire-safe epoxy composite realized by MXenes based nanostructure with vertically arrayed MOFs derived from interfacial assembly strategy. 2023 , 465, 143039	0
39	MetalâBrganic rotaxane frameworks constructed by cucurbit[8]uril-based ternary complex for selective detection of antibiotics.	Ο
38	Heterogeneous Electrocatalysis of Carbon Dioxide to Methane. 2023 , 2, 148-175	О
37	AlFu nano MOF-based dispersive micro solid phase extraction of pesticides; the comparison of preconcentration via evaporation and dispersive liquidallquid microextraction. 1-20	O
36	Carbon molecular sieve membranes derived from hydrogen-bonded organic frameworks for CO2/CH4 separation. 2023 , 678, 121674	0
35	Hydrogen Storage in North America: Status, Prospects, and Challenges. 2023 , 109957	O
34	Improving the performance of an anionic MOF by counter cation replacement as electrode material in a full cell setup of a potassium ion capacitor. 2023 , 13, 12277-12284	0
33	Atomic regulations of single atom from metal-organic framework derived carbon for advanced water treatment.	O
32	Aqueous Pb(II) Removal Using ZIF-60: Adsorption Studies, Response Surface Methodology and Machine Learning Predictions. 2023 , 13, 1402	0
31	The impact of solution vs. slurry vs. mechanochemical syntheses upon the sorption performance of a 2D switching coordination network.	Ο
30	Charge Separation in Metal-Organic Framework Enables Heterogeneous Thiol Catalysis.	0
29	Selective Cu and Ni-MOFs as pre-catalysts for the hydrogenation of furfural to furfuryl alcohol.	Ο
28	A Mixed ProtonicaElectronic Conductor Base on the HostaGuest Architecture of 2D Metala@rganic Layers and Inorganic Layers.	0
27	Halogen bonding: a designer strategy for graphyne-like two-dimensional architectures. 2023 , 142,	Ο
26	CRAFTED: An exploratory database of simulated adsorption isotherms of metal-organic frameworks. 2023 , 10,	0
25	Exploring Functional Photonic Devices made from a Chiral Metalâ®rganic Framework Material by a Multiscale Computational Method.	O
24	Reversible Chromism of Tethered Ruthenium(II) Complexes in the Solid State.	O
23	Controlled Supramolecular Self-assembly in MOF Confined Spaces. 2023 , 151-174	O

22	Functionalized nanofibrous mats for gas separation applications. 2023, 579-615	O
21	Investigating the function and design of molecular materials through terahertz vibrational spectroscopy.	O
20	Birnessite-Type Manganese Dioxide Nanosheets on MetalâDrganic Frameworks with High Catalytic Activity in Ozone Decomposition.	0
19	Endowing Porphyrinic Metalâ©rganic Frameworks with High Stability by a Linker Desymmetrization Strategy.	O
18	Characterizing Grain Boundary Effects on Mg2+ Conduction in MetalâDrganic Frameworks.	0
17	Fiber coating based on a green metal-organic framework to determine phthalates in bottled waters by direct-immersion micro solid-phase extraction. 2023 , 108767	O
16	Less-Coordinated Atomic Copper-Dimer Boosted Carbonâllarbon Coupling During Electrochemical CO 2 Reduction.	0
15	Application of infrared waves in cancer therapy. 2023 , 151-237	O
14	Extreme Flexibility and Unusual Piezomechanical Properties of Zinc-Alkyl-Based Metal-Organic Frameworks: A First Principles Study. 2023 , 106054	0
13	Linker Vacancy Engineering of a Robust ftw-type Zr-MOF for Hexane Isomers Separation.	O
12	Yolk-Shell Nanostars@Metal Organic Frameworks as Molecular Sieves for Optical Sensing and Catalysis.	0
11	Ortho Effects of Tricarboxylate Linkers in Regulating Topologies of Rare-Earth Metalâ©rganic Frameworks. 2023 , 3, 1337-1347	O
10	Yolk-Shell Nanostars@Metal Organic Frameworks as Molecular Sieves for Optical Sensing and Catalysis.	O
9	Two-Dimensional Mixed-Ligand MetalâDrganic Framework Constructed from Bridging Bidentate V-Shaped Ligands. 2023 , 11, 184	O
8	Binder-free engineering design of Ni-MOF ultrathin sheet-like grown on PANI@GO decorated nickel foam as an electrode for in hydrogen evolution reaction and asymmetric supercapacitor. 2023 ,	O
7	Design of an ocu-Metal-Organic Framework for a Photocatalysis Reaction.	O
6	Applications of MetalâDrganic Frameworks and Their Derivatives in Electrochemical CO2 Reduction. 2023 , 15,	О
5	Polymers of intrinsic microporosity containing aryl-phthalimide moieties: synthesis, modeling, and membrane gas transport properties. 2023 , 14, 2363-2373	O

4	Barium(II)-based semiconductive coordination polymers for high-performance direct X-ray detection and imaging: Reducing the exciton binding energy via enhancing IIInteractions. 2023 , 466, 143272	О
3	Ultra-fast and selective adsorption of methylene blue with polyoxometalate-based metal-organic frameworks. 2023 , 216, 111363	O
2	Crystal Engineering of a Chiral Crystalline Sponge That Enables Absolute Structure Determination and Enantiomeric Separation.	0
1	Metal-organic framework-pesticide interactions in water: Present and future perspectives on monitoring, remediation and molecular simulation. 2023 , 490, 215214	O