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Selective gas adsorption and separation in metal-organic frameworks

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2110	MOF-5 metal-organic framework as sorbent for in-field sampling and preconcentration in combination with thermal desorption GC/MS for determination of atmospheric formaldehyde. <b>2010</b> , 82, 1365-70	202
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2108	The osmotic framework adsorbed solution theory: predicting mixture coadsorption in flexible nanoporous materials. <b>2010</b> , 12, 10904-13	66
2107	Highly selective carbon dioxide sorption in an organic molecular porous material. <b>2010</b> , 132, 12200-2	268
2106	Reactive adsorption of ammonia on Cu-based MOF/graphene composites. <b>2010</b> , 26, 15302-9	181
2105	pH-Dependent Binary Metal©rganic Compounds Assembled from Different Helical Units: Structural Variation and Supramolecular Isomers. <b>2010</b> , 10, 1699-1705	61
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2100	Multiscale simulation and modelling of adsorptive processes for energy gas storage and carbon dioxide capture in porous coordination frameworks. <b>2010</b> , 3, 1469	130
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2007	Gas storage in porous metal-organic frameworks for clean energy applications. <b>2010</b> , 46, 44-53		1102
2006	X-ray absorption spectroscopies: useful tools to understand metallorganic frameworks structure and reactivity. <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 4885-927	.5	112
2005	Metal-organic framework thin film for enhanced localized surface plasmon resonance gas sensing. <b>2010</b> , 82, 8042-6		279
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2003	New three-dimensional porous metal organic framework with tetrazole functionalized aromatic carboxylic Acid: synthesis, structure, and gas adsorption properties. <b>2010</b> , 49, 11581-6		126
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1997	Chemical reduction of a diimide based porous polymer for selective uptake of carbon dioxide versus methane. <b>2010</b> , 46, 1056-8		134
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1995	A 4-connected anionic metalorganic nanotube constructed from indium isophthalate. <b>2010</b> , 12, 3385		29
1994	4-Carboxylphthalhydrazidate-bridged layered Pb(II) coordination polymers. <b>2010</b> , 12, 1850		24
1993	Spontaneous resolution upon crystallization of chiral La(III) and Gd(III) MOFs from achiral dihydroxymalonate. <b>2010</b> , 46, 8270-2		108
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1982	Solvothermal syntheses, structures, and physical properties of four new coordination compounds constructed from a bent dicarboxylate ligand. <b>2010</b> , 39, 8240-7	22
1981	Nanoporous metalorganic framework comprising of 1D cobalt oxalate chains and flexible ligands exhibiting both dynamic gas adsorption and antiferromagnetic chain behaviours. <b>2010</b> , 12, 2225	18
1980	Separation of gas mixtures using Co(II) carborane-based porous coordination polymers. <b>2010</b> , 46, 3478-80	128
1980 1979	Separation of gas mixtures using Co(II) carborane-based porous coordination polymers. <b>2010</b> , 46, 3478-80  Modification of flexible part in Cu(2+) interdigitated framework for CH(4)/CO(2) separation. <b>2010</b> , 46, 9229-31	128
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1969	A versatile V-shaped tetracarboxylate building block for constructing mixed-ligand Co(II) and Mn(II) complexes incorporating various N-donor co-ligands. <b>2010</b> , 12, 1227-1237	57
1968	Luminescent boracite-like metalörganic frameworks constructed by Cu-centered CuCu4 tetrahedra and CuCu3 triangles with an acentric cubic superlarge cell. <b>2010</b> , 12, 55-58	14
1967	NaKA sorbents with high CO(2)-over-N(2) selectivity and high capacity to adsorb CO(2). <b>2010</b> , 46, 4502-4	120
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1965	Six new metal-organic frameworks with multi-carboxylic acids and imidazole-based spacers: syntheses, structures and properties. <b>2011</b> , 40, 11856-65	62
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1958	An unusual 1D ladder-like silver(I) coordination polymer involving novel 1D -&D five-folded interpenetrated and [3 + 2] catenaned features generated by Ag?O interactions. <b>2011</b> , 13, 33-35	48
1957	A robust near infrared luminescent ytterbium metal-organic framework for sensing of small molecules. <b>2011</b> , 47, 5551-3	321
1956	New heterometallic frameworks with flexible sulfonate-carboxylate ligand: syntheses, structures, and properties. <b>2011</b> , 13, 6150	9
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1947	Selective CO2 capture by a 3dØd coordination polymer material with 1D channel. <b>2011</b> , 13, 6013	16
1946	Temperature dependent selective gas sorption of the microporous metal-imidazolate framework [Cu(L)] [H2L = 1,4-di(1H-imidazol-4-yl)benzene]. <b>2011</b> , 47, 752-4	157
1945	Ab-Initio Study of the Adsorption and Separation of NOx and SOx Gases in Functionalized IRMOF Ligands. <b>2011</b> , 115, 24906-24914	21
1944	Two Solvent-Dependent Zinc(II) Supramolecular Isomers: Rare kgd and Lonsdaleite Network Topologies Based on a Tripodal Flexible Ligand. <b>2011</b> , 11, 5182-5187	128
1943	Open-framework copper adeninate compounds with three-dimensional microchannels tailored by aliphatic monocarboxylic acids. <b>2011</b> , 50, 5330-2	45
1942	Two-dimensional {Co(3+)-Zn2+} and {Co(3+)-Cd2+} networks and their applications in heterogeneous and solvent-free ring opening reactions. <b>2011</b> , 40, 12454-61	42
1941	Multi-functional metalBrganic frameworks based on H4mdip: Crystal structure, photoluminescence, selective ion-exchange and catalysis. <b>2011</b> , 13, 7236	21
1940	Design and construction of coordination polymers based on 2,2?-dinitro-4,4?-biphenyldicarboxylate and imidazole-based ligands: The effect of ligand length and metal ions. <b>2011</b> , 13, 4592	40
1939	Ancillary ligand-mediated syntheses and fluorescence properties of zinc(II) complexes based on flexible benzene dicarboxylic acid. <b>2011</b> , 13, 3013	59
1938	Reversible single crystal to single crystal transformation with anion exchange-induced weak Cu2+IIII? interactions and modification of the structures and properties of MOFs. <b>2011</b> , 47, 5271-3	84
1938		23

1935	A flexible copper based microporous metal-organic framework displaying selective adsorption of hydrogen over nitrogen. <b>2011</b> , 40, 3398-401	19
1934	Hydrothermal syntheses, structures and luminescent properties of Zn(II) coordination polymers assembled with benzene-1,2,3-tricarboxylic acid involving in situ ligand reactions. <b>2011</b> , 13, 2764	48
1933	Four new metal <b>b</b> rganic frameworks constructed from H2DBTDC-O2 (H2DBTDC-O2 = dibenzothiophene-5,5?-dioxide-3,7-dicarboxylic acid) ligand with guest-responsive photoluminescence. <b>2011</b> , 13, 1646-1653	33
1932	Vapour-adsorption and chromic behaviours of luminescent coordination polymers composed of a Pt(II)-diimine metalloligand and alkaline-earth metal ions. <b>2011</b> , 40, 8012-8	38
1931	A novel 3-connected [3 + 3] topological net showing both rotaxane- and catenane-like motifs. <b>2011</b> , 13, 4945	8
1930	Design and construction of coordination polymers by 2,2?-dinitro-4,4?-biphenyldicarboxylate and imidazole-based ligands: diverse structures based on different metal ions. <b>2011</b> , 13, 2457	26
1929	Multiple phase-transitions upon selective CO2 adsorption in an alkyl ether functionalized metalBrganic frameworkBn in situ X-ray diffraction study. <b>2011</b> , 13, 6399	45
1928	Synthesis of catalytically active porous organic polymers from metalloporphyrin building blocks. <b>2011</b> , 2, 686	157
1927	Syntheses, structures, and photoluminescence of five silver(I) coordination polymers based on tetrakis(imidazol-1-ylmethyl)methane. <b>2011</b> , 13, 5877	56
1926	Design, synthesis and noncentrosymmetric solid state organization of three novel pyridylphosphonic acids. <b>2011</b> , 13, 3474	17
1925	Homochiral 3D metal-organic frameworks from chiral 1D rods: 6-way helical packing. <b>2011</b> , 47, 9402-4	20
1924	New topology observed in highly rare interlaced triple-stranded molecular braid. <b>2011</b> , 13, 421-425	12
1923	Molecular simulation investigation into the performance of Cu-BTC metal-organic frameworks for carbon dioxide-methane separations. <b>2011</b> , 13, 20453-60	24
1922	Analysis of hydrogen storage in nanoporous materials for low carbon energy applications. <b>2011</b> , 151, 59-74; discussion 95-115	24
1921	A Covalent Organic Framework with 4 nm open pores. <b>2011</b> , 47, 1707-9	153
1920	Surface functionalization of metal-organic polyhedron for homogeneous cyclopropanation catalysis. <b>2011</b> , 47, 4968-70	91
1919	Small chemical causes drastic structural effects: the case of calcium glutarate. <b>2011</b> , 13, 1894-1898	34
1918	A route to functionalised pores in coordination polymers via mixed phosphonate and amino-triazole linkers. <b>2011</b> , 23, 278-282	11

1917	SERS-Active Metal@rganic Frameworks Embedding Gold Nanorods. 2011, 23, 3132-3134	124
1916	Self-Assembly of Zr(C2O4)44Metallotectons and Bisimidazolium Cations: Influence of the Dication on H-Bonded Framework Dimensionality and Material Potential Porosity. <b>2011</b> , 11, 5424-5433	18
1915	Sonochemical Synthesis and Characterization of Submicrometer Crystals of the Metal Drganic Framework Cu[(hfipbb)(H2hfipbb)0.5]. <b>2011</b> , 11, 4505-4510	44
1914	Solvent-Induced Synthesis of Zinc(II) and Manganese(II) Coordination Polymers with a Semirigid Tetracarboxylic Acid. <b>2011</b> , 11, 2444-2452	57
1913	Selective Incorporation of Auxiliary Organic Ligands in Metal Organic Frameworks Based on Twisted Ishaped Building Blocks. <b>2011</b> , 11, 5167-5170	5
1912	Highly CO2-selective organic molecular cages: what determines the CO2 selectivity. <b>2011</b> , 133, 6650-8	214
1911	Ligand geometry-driven formation of different coordination polymers from Zn(NO3)2, 1,4-bpeb and phenylenediacetic acids. <b>2011</b> , 13, 1851-1857	60
1910	Magnetic structure of Ni(DCOO)2(D2O)2. <b>2011</b> , 50, 1441-6	6
1909	Scalable Synthesis for Porous Organic Cages. <b>2011</b> , 41, 2146-2151	22
1908	Temperature-Driven Assembly of Ln(III) (Ln = Nd, Eu, Yb) Coordination Polymers of a Flexible Azo Calix[4]arene Polycarboxylate Ligand. <b>2011</b> , 11, 3479-3488	60
1907	Tether Length Control of Topology in Cadmium 4-Methylphthalate Two-Dimensional Coordination Polymers: An Acentric Buckled Grid and a Rare Self-Catenated Layer. <b>2011</b> , 11, 678-683	34
1906	Computational study of hydrocarbon adsorption in metal-organic framework Ni2(dhtp). <b>2011</b> , 115, 2842-9	12
1905	Syntheses, structures, and properties of lead(II) and nickel(II) complexes with 3,5-di(1H-imidazol-1-yl)benzoate. <b>2011</b> , 64, 170-178	6
1904	Syntheses, Structures, and Porous/Luminescent Properties of Silver 3-Alkyl-1,2,4-Triazolate Frameworks with Rare 3-Connected Topologies. <b>2011</b> , 11, 796-802	28
1903	Exploration of the Long-Chain N-Alkanes Adsorption and Diffusion in the MOF-Type MIL-47 (V) Material by Combining Experimental and Molecular Simulation Tools. <b>2011</b> , 115, 13868-13876	46
1902	Syntheses of Metal <b>D</b> rganic Frameworks and Aluminophosphates under Microwave Heating: Quantitative Analysis of Accelerations. <b>2011</b> , 11, 4413-4421	37
1901	Accurate Treatment of Electrostatics during Molecular Adsorption in Nanoporous Crystals without Assigning Point Charges to Framework Atoms. <b>2011</b> , 115, 4824-4836	91
1900	Structural Diversity of a Series of Mn(II), Cd(II), and Co(II) Complexes with Pyridine Donor Diimide Ligands. <b>2011</b> , 11, 2763-2772	78

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1899	Molecular Insight into the Adsorption and Diffusion of Water in the Versatile Hydrophilic/Hydrophobic Flexible MIL-53(Cr) MOF. <b>2011</b> , 115, 10764-10776	119
1898	71Ga Slow-CTMAS NMR and Crystal Structures of MOF-Type Gallium Carboxylates with Infinite Edge-Sharing Octahedra Chains (MIL-120 and MIL-124). <b>2011</b> , 23, 39-47	47
1897	Gated channels in a honeycomb-like zinc-dicarboxylate-bipyridine framework with flexible alkyl ether side chains. <b>2011</b> , 133, 2064-7	147
1896	Kinetic separation of propene and propane in metal-organic frameworks: controlling diffusion rates in plate-shaped crystals via tuning of pore apertures and crystallite aspect ratios. <b>2011</b> , 133, 5228-31	211
1895	Entangled Coordination Frameworks with 1,4-Di(1H-imidazol-4-yl)benzene. <b>2011</b> , 11, 1082-1090	46
1894	Porous Nitrogen Rich Cadmium-Tetrazolate Based Metal Organic Framework (MOF) for H2 and CO2 Uptake. <b>2011</b> , 11, 5176-5181	42
1893	Divalent Metal Aliphatic Tricarboxylate Dipyridylamine Coordination Polymers with New or Rare Binodal Topologies. <b>2011</b> , 11, 4860-4875	17
1892	Biofuel purification by pervaporation and vapor permeation in metalorganic frameworks: a computational study. <b>2011</b> , 4, 2107	43
1891	A series of three-dimensional lanthanide(III) coordination polymers of 2,5-dihydroxy-1,4-benzenedicarboxylic acid based on dinuclear lanthanide units. <b>2011</b> , 13, 4981	34
1890	High-pressure in situ 129Xe NMR spectroscopy and computer simulations of breathing transitions in the metal-organic framework Ni2(2,6-ndc)2(dabco) (DUT-8(Ni)). <b>2011</b> , 133, 8681-90	99
1889	Gas and liquid phase adsorption in isostructural Cu3[biaryltricarboxylate]2 microporous coordination polymers. <b>2011</b> , 47, 1452-4	68
1888	Adsorption Equilibria of CO2, CH4, N2, O2, and Ar on High Silica Zeolites. <b>2011</b> , 56, 4017-4023	57
1887	Computational Nanostructure Design for Hydrogen Storage. <b>2011</b> , 761-799	
1886	Pore partition effect on gas sorption properties of an anionic metal-organic framework with exposed Cu2+ coordination sites. <b>2011</b> , 47, 10647-9	132
1885	Control of the charge-transfer interaction between a flexible porous coordination host and aromatic guests by framework isomerism. <b>2011</b> , 13, 3360	45
1884	Photochemical Response of Commercial MOFs: Al2(BDC)3 and Its Use As Active Material in Photovoltaic Devices. <b>2011</b> , 115, 22200-22206	81
1883	Novel route to size-controlled Fe-MIL-88B-NH2 metal-organic framework nanocrystals. <b>2011</b> , 27, 15261-7	170
1882	Effect of time, temperature, and kinetics on the hysteretic adsorption-desorption of H2, Ar, and N2 in the metal-organic framework Zn2(bpdc)2(bpee). <b>2011</b> , 27, 14169-79	19

1881	Separation and Purification of Gases by MOFs. <b>2011</b> , 69-97	4
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1879	Hydrogen Sorption Properties of Materials. <b>2011</b> , 61-115	4
1878	Experimental Considerations. <b>2011</b> , 183-234	
1877	Gas detection by structural variations of fluorescent guest molecules in a flexible porous coordination polymer. <b>2011</b> , 10, 787-93	351
1876	A Zn4O-containing doubly interpenetrated porous metal-organic framework for photocatalytic decomposition of methyl orange. <b>2011</b> , 47, 11715-7	289
1875	Substituent effect of R-isophthalates (R = III, IIIH3, IDCH3, IIBu, IDH, and IIIO2) on the construction of CdII coordination polymers incorporating a dipyridyl tecton 2,5-bis(3-pyridyl)-1,3,4-oxadiazole. <b>2011</b> , 13, 1885-1893	82
1874	The diverse structures of Cd(II) coordination polymers with 1,3,5-benzenetribenzoate tuned by organic bases. <b>2011</b> , 13, 5825	24
1873	Pore-size tuning in double-pillared metalBrganic frameworks containing cadmium clusters. <b>2011</b> , 13, 3321	47
1872	Single-crystal to single-crystal transformation of 1D coordination polymer via photochemical [2+2] cycloaddition reaction. <b>2011</b> , 40, 2170-2	48
1871	2D flexible metal-organic frameworks with [Cd2(Q-X)2](X = Cl or Br) units exhibiting selective fluorescence sensing for small molecules. <b>2011</b> , 47, 2667-9	81
1870	Design of Functional Metal©rganic Frameworks by Post-Synthetic Modification. <b>2011</b> , 23-48	7
1869	Solvent-induced deviation in square-grid layers of microporous Cu(II) isophthalates: layer stacking and gas adsorption properties. <b>2011</b> , 13, 577-584	19
1868	Biomedical Applications of Metal Organic Frameworks. <b>2011</b> , 50, 1799-1812	420
1867	Catalysis by metal-organic frameworks: fundamentals and opportunities. <b>2011</b> , 13, 6388-96	331
1866	Structurally designed synthesis of mechanically stable poly(benzoxazine-co-resol)-based porous carbon monoliths and their application as high-performance CO2 capture sorbents. <b>2011</b> , 133, 11378-88	456
1865	Microporous metal Brganic frameworks for acetylene storage and separation. 2011, 13, 5983	146
1864	Toward understanding reactive adsorption of ammonia on Cu-MOF/graphite oxide nanocomposites. <b>2011</b> , 27, 13043-51	117

1863	Porous Metal <b>D</b> rganic Frameworks. <b>2011</b> , 1-20	3
1862	A zinc(II) metal-organic framework based on triazole and dicarboxylate ligands for selective adsorption of hexane isomers. <b>2011</b> , 47, 7197-9	44
1861	Solvent/additive-free synthesis of porous/zeolitic metal azolate frameworks from metal oxide/hydroxide. <b>2011</b> , 47, 9185-7	131
1860	Tuning the topology and functionality of metal-organic frameworks by ligand design. <b>2011</b> , 44, 123-33	859
1859	Construction of Coordination Polymers Based on Bent 4-Amino-3,5-bis(3-carboxyphenyl)-1,2,4-triazole Ligand: Diverse Structural Topology and Photoluminescent and Magnetic Properties. <b>2011</b> , 11, 1475-1485	41
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1857	Selective incorporation of functional dicarboxylates into zinc metal-organic frameworks. <b>2011</b> , 47, 3380-2	51
1856	Two Unprecedented Three-Dimensional PbIIPolymorphs and Structural Diversities Built on a Kinked Flexible Dicarboxylate Building Block. <b>2011</b> , 11, 936-940	46
1855	Reductive electrosynthesis of crystalline metal-organic frameworks. <b>2011</b> , 133, 12926-9	184
1854	A new approach towards tetrahedral imidazolate frameworks for high and selective CO2 uptake. <b>2011</b> , 47, 5828-30	83
1853	Diffusion-controlled luminescence quenching in metal-organic frameworks. <b>2011</b> , 133, 4232-5	181
1852	Immobilization of MP-11 into a mesoporous metal-organic framework, MP-11@mesoMOF: a new platform for enzymatic catalysis. <b>2011</b> , 133, 10382-5	479
1851	Encapsulation, storage and controlled release of sulfur hexafluoride from a metal-organic capsule. <b>2011</b> , 47, 457-9	174
1850	Common Structural Features in Calcium Hydroxyphosphonoacetates. A High-Throughput Screening. <b>2011</b> , 11, 1713-1722	30
1849	Three-Dimensional Robust Porous Coordination Polymer with Schiff Base Site on the Pore Wall: Synthesis, Single-Crystal-to-Single-Crystal Reversibility, and Selective CO2Adsorption. <b>2011</b> , 11, 3905-3911	57
1848	Porous metal-organic frameworks as platforms for functional applications. <b>2011</b> , 47, 3351-70	743
1847	Wide control of proton conductivity in porous coordination polymers. <b>2011</b> , 133, 2034-6	461
1846	Heating and separation using nanomagnet-functionalized metal-organic frameworks. <b>2011</b> , 47, 3075-7	118

1845	High-Pressure Adsorption Equilibrium of CO2, CH4, and CO on an Impregnated Activated Carbon. <b>2011</b> , 56, 390-397	15
1844	Homochiral nickel coordination polymers based on salen(Ni) metalloligands: synthesis, structure, and catalytic alkene epoxidation. <b>2011</b> , 50, 2191-8	99
1843	Temperature-controlled synthesis of two novel coordination polymers modeled by semi-rigid tetrapyridines. <b>2011</b> , 13, 7025	28
1842	Two unique antiferromagnetic 3D frameworks with unusual CuII4 cluster and alternate CuII4 + CuII1 structural motif tuned by aromatic polycarboxylate coligand. <b>2011</b> , 13, 2667	52
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1840	Inclusion of potassium 4,4?-biphenyldicarboxylate into Eyclodextrin: the design and synthesis of an organic secondary building unit. <b>2011</b> , 35, 1280	4
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1838	Metal Organic Frameworks as Promising High Surface Area Material for Work Function Gas Sensors. <b>2011</b> , 25, 108-111	23
1837	Cadmium(II) and zinc(II) metal®rganic frameworks with anthracene-based dicarboxylic ligands: solvothermal synthesis, crystal structures, and luminescent properties. <b>2011</b> , 13, 5152	69
1836	Incorporation of active metal sites in MOFs via in situ generated ligand deficient metal-linker complexes. <b>2011</b> , 47, 11882-4	32
1835	Exploiting metal-organic coordination polymers as highly efficient immobilization matrixes of enzymes for sensitive electrochemical biosensing. <b>2011</b> , 83, 6511-7	67
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1833	Tuning the moisture stability of metal-organic frameworks by incorporating hydrophobic functional groups at different positions of ligands. <b>2011</b> , 47, 7377-9	202
1832	High heat of hydrogen adsorption and guest-responsive magnetic modulation in a 3D porous pillared-layer coordination framework. <b>2011</b> , 47, 538-40	83
1831	Postsynthetic modification at orthogonal reactive sites on mixed, bifunctional metal-organic frameworks. <b>2011</b> , 47, 7629-31	67
1830	Palladium Nanoparticles Confined in the Cages of MIL-101: An Efficient Catalyst for the One-Pot Indole Synthesis in Water. <b>2011</b> , 1, 1604-1612	140
1829	The coordination chemistry of Zn(II), Cd(II) and Hg(II) complexes with 1,2,4-triazole derivatives. <b>2011</b> , 40, 8475-90	111
1828	Chiral metal-organic frameworks for high-resolution gas chromatographic separations. <b>2011</b> , 133, 11892-5	251

1827	In silico screening of metal-organic frameworks in separation applications. <b>2011</b> , 13, 10593-616	279
1826	MgII, Call, and Coll Metal-Organic Framework Materials with [Si(p-C6H4CO2)3(p-C6H4CO2H)]3[] Struts. <b>2011</b> , 64, 1239	17
1825	Role of solvents in coordination supramolecular systems. <b>2011</b> , 47, 5958-72	565
1824	Light-harvesting metal-organic frameworks (MOFs): efficient strut-to-strut energy transfer in bodipy and porphyrin-based MOFs. <b>2011</b> , 133, 15858-61	622
1823	Enhanced carbon dioxide capture upon incorporation of N,N?-dimethylethylenediamine in the metalBrganic framework CuBTTri. <b>2011</b> , 2, 2022	445
1822	Solvent and temperature influence structural variation from nonporous 2D -&D parallel polycatenation to 3D microporous metalBrganic framework. <b>2011</b> , 13, 3971	38
1821	Screening Metal Drganic Frameworks by Analysis of Transient Breakthrough of Gas Mixtures in a Fixed Bed Adsorber. <b>2011</b> , 115, 12941-12950	184
1820	Template-Free Synthesis of a Highly Porous Benzimidazole-Linked Polymer for CO2 Capture and H2 Storage. <b>2011</b> , 23, 1650-1653	361
1819	Selective CO2 adsorption in a flexible non-interpenetrated metal-organic framework. <b>2011</b> , 47, 4258-60	114
1818	Preparation of Ultrathin Films of Molecular Networks through Layer-by-Layer Cross-Linking Polymerization of Tetrafunctional Monomers. <b>2011</b> , 44, 7092-7095	42
1817	Ln-Co-based rock-salt-type porous coordination polymers: vapor response controlled by changing the lanthanide ion. <b>2011</b> , 50, 2061-3	21
1816	A nanoporous metal-organic framework with accessible Cu2+ sites for the catalytic Henry reaction. <b>2011</b> , 47, 2928-30	93
1815	Container molecules based on imine type ligands. <b>2012</b> , 319, 79-98	5
1814	Adsorbate Selectivity of Isoreticular Microporous Metal©rganic Frameworks with Similar Static Pore Dimensions. <b>2011</b> , 11, 5064-5071	16
1813	Three-dimensional porous metal-metalloporphyrin framework consisting of nanoscopic polyhedral cages. <b>2011</b> , 133, 16322-5	138
1812	[email´protected]3(BTC)2 and Metal©rganic Frameworks for Separation of CO2/CH4 Mixture. <b>2011</b> , 115, 19864-19871	126
1811	Modeling the effect of structural changes during dynamic separation processes on MOFs. <b>2011</b> , 27, 13064-71	52
1810	An Fe-based MOF constructed from paddle-wheel and rod-shaped SBUs involved in situ generated acetate. <b>2011</b> , 13, 6002	31

1809	Oriented Zeolitic Imidazolate Framework-8 Membrane with Sharp H2/C3H8 Molecular Sieve Separation. <b>2011</b> , 23, 2262-2269	388
1808	Two unusual (4,6)- and 8-connected metalBrganic frameworks constructed from flexible 1,4-benzenebis(thioacetic acid) and pyridine-based ligands. <b>2011</b> , 13, 684-689	13
1807	A stepwise transition from microporosity to mesoporosity in metal®rganic frameworks by thermal treatment. <b>2011</b> , 2, 103-106	82
1806	Series of Porous 3-D Coordination Polymers Based on Iron(III) and Porphyrin Derivatives. <b>2011</b> , 23, 4641-4651	66
1805	A Series of 2D and 3D Metal Drganic Frameworks Based on a Flexible Tetrakis(4-pyridyloxymethylene) methane Ligand and Polycarboxylates: Syntheses, Structures, and Photoluminescent Properties. <b>2011</b> , 11, 3609-3621	146
1804	A 3D chiral porous In(III) coordination polymer with PtS topological net. <b>2011</b> , 40, 9154-8	34
1803	Investigating the Validity of the Knudsen Prescription for Diffusivities in a Mesoporous Covalent Organic Framework. <b>2011</b> , 50, 7083-7087	19
1802	Terbium-based infinite coordination polymer hollow microspheres: preparation and white-light emission. <b>2011</b> , 21, 16574	107
1801	Understanding CO2 Adsorption in CuBTC MOF: Comparing Combined DFTBb Initio Calculations with Microcalorimetry Experiments. <b>2011</b> , 115, 17925-17933	126
1800	Effect of graphite features on the properties of metal-organic framework/graphite hybrid materials prepared using an in situ process. <b>2011</b> , 27, 10234-42	55
1799	A time-resolved diffraction study of a window of stability in the synthesis of a copper carboxylate metal <b>B</b> rganic framework. <b>2011</b> , 13, 103-108	113
1798	Three-dimensional pillar-layered copper(II) metal-organic framework with immobilized functional OH groups on pore surfaces for highly selective CO2/CH4 and C2H2/CH4 gas sorption at room temperature. <b>2011</b> , 50, 3442-6	111
1797	Synthesis and characterization of two 3-D polymeric lanthanide complexes constructed from 1,2,4,5-benzenetetracarboxylic acid. <b>2011</b> , 64, 3767-3780	9
1796	Facile synthesis of hierarchically superstructured praseodymium benzenetricarboxylate with controllable morphologies. <b>2011</b> , 13, 452-458	12
1795	Synthesis and polymorphism of (4-ClpyH)2[CuCl4]: solidigas and solidigolid reactions. <b>2011</b> , 13, 3189-3196	36
1794	METAL-ORGANIC FRAMEWORKS. <b>2011</b> , 37-64	1
1793	Controlling the shifting degree of interpenetrated metal-organic frameworks by modulator and temperature and their hydrogen adsorption properties. <b>2011</b> , 47, 2556-8	51
1792	Engineering structured MOF at nano and macroscales for catalysis and separation. <b>2011</b> , 21, 7582	123

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1791	MOF-on-MOF heteroepitaxy: perfectly oriented [Zn2(ndc)2(dabco)]n grown on [Cu2(ndc)2(dabco)]n thin films. <b>2011</b> , 40, 4954-8	134
1790	Syntheses, Structures, Photoluminescence, and Gas Adsorption of Rare Earth Drganic Frameworks Based on a Flexible Tricarboxylate. <b>2011</b> , 11, 5469-5474	41
1789	Hydrogen Storage Materials. <b>2011</b> ,	112
1788	Effect of Pore Topology and Accessibility on Gas Adsorption Capacity in ZeoliticImidazolate Frameworks: Bringing Molecular Simulation Close to Experiment. <b>2011</b> , 115, 8126-8135	44
1787	Molecular doping of porous organic cages. <b>2011</b> , 133, 14920-3	157
1786	Morphology design of porous coordination polymer crystals by coordination modulation. <b>2011</b> , 133, 15506-13	326
1785	A microporous hydrogen-bonded organic framework for highly selective C2H2/C2H4 separation at ambient temperature. <b>2011</b> , 133, 14570-3	409
1784	Zeolitic imidazolate framework-8 as a luminescent material for the sensing of metal ions and small molecules. <b>2011</b> , 21, 6649	226
1783	Pro-porous coordination polymers of the 1,4-bis((3,5-dimethyl-1H-pyrazol-4-yl)-methyl)benzene ligand with late transition metals. <b>2011</b> , 50, 11506-13	28
1782	Metal-organic frameworks based on unprecedented trinuclear and pentanuclear metal-tetrazole clusters as secondary building units. <b>2011</b> , 50, 12133-40	56
1781	Solvent induced diverse dimensional coordination assemblies of cupric benzotriazole-5-carboxylate: syntheses, crystal structures, and magnetic properties. <b>2011</b> , 50, 11032-8	66
1780	Pressure-responsive curvature change of a "rigid" geodesic ligand in a (3,24)-connected mesoporous metal-organic framework. <b>2011</b> , 50, 10528-30	68
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1615	An Organophilic Pervaporation Membrane Derived from Metal®rganic Framework Nanoparticles for Efficient Recovery of Bio-Alcohols. <b>2011</b> , 123, 10824-10827	38
1614	Metal <b>D</b> rganic Framework Regioisomers Based on Bifunctional Ligands. <b>2011</b> , 123, 12401-12404	6
1613	Surface chemistry of metal-organic frameworks at the liquid-solid interface. <b>2011</b> , 50, 176-99	276
1612	A salicylbisimine cage compound with high surface area and selective CO2/CH4 adsorption. <b>2011</b> , 50, 1046-51	330

1611	Hybrid zeolitic imidazolate frameworks with catalytically active TO4 building blocks. <b>2011</b> , 50, 450-3	320
1610	On-off porosity switching in a molecular organic solid. <b>2011</b> , 50, 749-53	153
1609	Double switching of a magnetic coordination framework through intraskeletal molecular rearrangement. <b>2011</b> , 50, 3973-7	71
1608	Functional mixed metal-organic frameworks with metalloligands. <b>2011</b> , 50, 10510-20	351
1607	Kinetic control of metal-organic framework crystallization investigated by time-resolved in situ X-ray scattering. <b>2011</b> , 50, 9624-8	159
1606	Development and evaluation of porous materials for carbon dioxide separation and capture. <b>2011</b> , 50, 11586-96	907
1605	Selective adsorption of CO2 from light gas mixtures by using a structurally dynamic porous coordination polymer. <b>2011</b> , 50, 10888-92	49
1604	An organophilic pervaporation membrane derived from metal-organic framework nanoparticles for efficient recovery of bio-alcohols. <b>2011</b> , 50, 10636-9	276
1603	Metal-organic framework regioisomers based on bifunctional ligands. <b>2011</b> , 50, 12193-6	52
1602	Enhancing gas adsorption and separation capacity through ligand functionalization of microporous metal-organic framework structures. <b>2011</b> , 17, 5101-9	158
1601	Heterometallic coordination polymer gels based on a rigid, bifunctional ligand. <b>2011</b> , 17, 2369-72	25
1600	Cobalt imidazolate framework as precursor for oxygen reduction reaction electrocatalysts. <b>2011</b> , 17, 2063-7	342
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1593	B-N Chemistry@ZIF-8: dehydrocoupling of dimethylamine borane at room temperature by size-confinement effects. <b>2011</b> , 17, 6594-7	31
1592	Understanding the anomalous alkane selectivity of ZIF-7 in the separation of light alkane/alkene mixtures. <b>2011</b> , 17, 8832-40	243
1591	Synthesis of isoreticular zinc(II)-phosphonocarboxylate frameworks and their application in the Friedel-Crafts benzylation reaction. <b>2011</b> , 17, 10323-8	34
1590	Modifying cage structures in metal-organic polyhedral frameworks for H2 storage. <b>2011</b> , 17, 11162-70	68
1589	A roadmap to implementing metal-organic frameworks in electronic devices: challenges and critical directions. <b>2011</b> , 17, 11372-88	356
1588	Palladium nanoparticles encapsulated in a metal-organic framework as efficient heterogeneous catalysts for direct C2 arylation of indoles. <b>2011</b> , 17, 12706-12	170
1587	Palladium-catalyzed C-H bond functionalization of a metal-organic framework (MOF): mild, selective, and efficient. <b>2011</b> , 17, 11974-7	28
1586	Guest-responsive covalent frameworks by the cross-linking of liquid-crystalline salts: tuning of lattice flexibility by the design of polymerizable units. <b>2011</b> , 17, 14752-62	22
1585	Adsorption and Diffusion Basis for Molecular Understanding of Permeation through Molecular Sieve Membranes. <b>2011</b> , 83, 104-112	33
1584	A novel addition complex composed of single and double chains constructed from btb@dBO4 units (btb=1,4-bis(1,2,4-triazol-1-yl)butane). <b>2011</b> , 14, 52-55	3
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1582	An unusual 3D pillared-layer cobalt(II) coordination polymer containing helical motifs and novel topology constructed from mixed ligands. <b>2011</b> , 14, 805-808	5
1581	Synthesis and characterization of porous Al(III) metal-organic framework nanoparticles as a new precursor for preparation of Al2O3 Nanoparticles. <b>2011</b> , 14, 645-648	29
1580	A new lanthanide metal-organic framework with (3,6)-connected topology based on novel tricarboxylate ligand. <b>2011</b> , 14, 978-981	29
1579	A luminescent cadmium itaconate coordination polymer with rare 658 layer topology from in situ hydrothermal decarboxylation of trans-aconitic acid. <b>2011</b> , 14, 1111-1114	5
1578	Two new coordination frameworks based on rod-shaped secondary building blocks with five-nodal (3, 4, 5, 6)-connected and (3, 5, 6)-connected network topologies. <b>2011</b> , 14, 1156-1160	7
1577	A self-penetrated chiral cobalt camphorate coordination polymer with antiferromagnetically coupled paddlewheel clusters. <b>2011</b> , 14, 1250-1253	12
1576	Three novel microporous 3D heterometallic 3dlf coordination polymers: Synthesis, crystal structures and photoluminescence properties. <b>2011</b> , 14, 1396-1399	26

1575	Carbon dioxide capture-related gas adsorption and separation in metal-organic frameworks. <b>2011</b> , 255, 1791-1823	1614
1574	Facile synthesis of nano-sized metal-organic frameworks, chromium-benzenedicarboxylate, MIL-101. <b>2011</b> , 166, 1152-1157	124
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1564	Zeolitic imidazolate frameworks for separation of binary mixtures of CO2, CH4, N2 and H2: A computer simulation investigation. <b>2011</b> , 143, 46-53	119
1563	MetalBrganic coordination polymers based on dicarboxylate and a flexible bispyridyl ligand: Synthesis, structures, and photoluminescence. <b>2011</b> , 995, 91-96	11
1562	A novel 2D (3,5)-connected coordination framework with Zn2(COO)3 SBU. <b>2011</b> , 1000, 58-61	7
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1557	Adsorption of CO2 and CH4 on a magnesium-based metal organic framework. <b>2011</b> , 353, 549-56	357
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1555	A comparison of the coordination preference of Cd, Zn, Cu(II) with flexible homophthalic acid and rigid bipyridine ligands. <b>2011</b> , 30, 1487-1493	23
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1550	Chiral rings from BINOL dicarboxylic acids and alkane ditin(IV) linkers. <b>2012</b> , 35,	
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1542	Zeolitic imidazolate framework-7 as an ultra-selective nanofilter for H2 purification: atomistic simulation study. <b>2012</b> , 38, 830-837	3
1541	CO2 Adsorption of Metal Organic Framework Material Cu-BTC via Different Preparation Routes. <b>2012</b> , 244-251	1
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1534	Homoleptic lanthanide 1,2,3-triazolates ([(2B)[Ln(Tz*)3] and their diversified photoluminescence properties. <b>2012</b> , 51, 13204-13	47
1533	Assembly and post-modification of a metal-organic nanotube for highly efficient catalysis. <b>2012</b> , 134, 19851-7	214
1532	A heterobimetallic metal-organic framework with tunable reactive metal sites: synthesis, characterization, and reactivity. <b>2012</b> , 41, 7855-8	26
1531	Thermodynamics of Pore Filling Metal Clusters in Metal Organic Frameworks: Pd in UiO-66. <b>2012</b> , 3, 3702-6	25
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1529	Autonomous motors of a metal-organic framework powered by reorganization of self-assembled peptides at interfaces. <b>2012</b> , 11, 1081-5	169
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1527	Adjusting the stability of metal-organic frameworks under humid conditions by ligand functionalization. <b>2012</b> , 28, 16874-80	143
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1510	3-Fold-interpenetrated uranium-organic frameworks: new strategy for rationally constructing three-dimensional uranyl organic materials. <b>2012</b> , 51, 3103-7	73
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1502	The removal of CO2 and N2 from natural gas: A review of conventional and emerging process technologies. <b>2012</b> , 94-95, 123-154	382
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1499	Enhanced Stability in Rigid Peptide-Based Porous Materials. <b>2012</b> , 124, 11206-11210	12
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1495	Facile Synthesis of MIL-68(In) Films with Controllable Morphology. <b>2012</b> , 2012, 0-0	
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1475	A novel 1D independent metalorganic nanotube based on cyclotriveratrylene ligand. <b>2012</b> , 14, 112-115	28
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1466	Guest-induced expanding and shrinking porous modulation based on interdigitated metalBrganic frameworks constructed by 4,4?-sulfonyldibenzoate and barium ions. <b>2012</b> , 14, 2849	33
1465	CuN6 Jahn-Teller centers in coordination frameworks comprising fully condensed Kuratowski-type secondary building units: phase transitions and magneto-structural correlations. <b>2012</b> , 41, 4239-48	15
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1459	One-dimensional confinement of a nanosized metal organic framework in carbon nanofibers for improved gas adsorption. <b>2012</b> , 48, 2009-11	79
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1457	New metal complexes with di(mono)acylhydrazidate molecules. <b>2012</b> , 41, 10267-75	18
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1455	A series of five divalent zinc and cadmium coordination polymers based on a new bifunctional ligand: syntheses, crystal structures, and properties. <b>2012</b> , 14, 3951	15
1454	Microwave synthesis and gas sorption of calcium and strontium metal <b>b</b> rganic frameworks with high thermal stability. <b>2012</b> , 14, 1219	59
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1452	OrganicIhorganic hybrid tinphosphonate material with mesoscopic void spaces: an excellent catalyst for the radical polymerization of styrene. <b>2012</b> , 2, 613	29
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1448	Interpenetrated and polycatenated nets of Cd(II) coordination networks from mixed N,N?-dipyridyladipoamide and dicarboxylate ligands. <b>2012</b> , 14, 5505	87
1447	Divalent metal coordination polymers assembled from dual linkers Bemirigid carboxyphenylpropionate and dipyridyl type molecule. <b>2012</b> , 14, 951-960	40
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1444	Charge effect of foreign metal ions and the crystal growth process in hybridized metal-organic frameworks. <b>2012</b> , 48, 10847-9	27
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1370	Catalysis by a Zinc-Porphyrin-Based Metal©rganic Framework: From Theory to Computational Design. <b>2012</b> , 116, 23494-23502	29
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1315	Rational synthesis of graphenethetal coordination polymer composite nanosheet as enhanced materials for electrochemical biosensing. <b>2012</b> , 22, 13166	42
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491	Self-diffusion of mixed xylene isomers in ZIF-71 crystals dispersed in a polymer to form a hybrid membrane. <b>2022</b> , 111960	
490	Machine-Learning-Assisted High-Throughput Computational Screening of Metal®rganic Framework Membranes for Hydrogen Separation. <b>2022</b> , 136783	1
489	Shedding Light on the Lewis Acid Catalysis in Organic Transformations Using a Zn-MOF Microflower and Its ZnO Nanorod. 1	3
488	A theoretical insight into diffusion mechanism of benzene-methanol alkylation reaction in ZSM-5 zeolite. <b>2022</b> , 337, 111926	1
487	One-Step C $2$ H $4$ Purification from Ternary C $2$ H $6$ /C $2$ H $4$ /C $2$ H $2$ Mixtures by a Robust Metal $\square$ rganic Framework with Customized Pore Environment.	
486	Porous Organic Salts: Diversifying Void Structures and Environments <b>2022</b> , e202202597	1
485	Microwave-Assisted Synthesis of the Flexible Iron-based MIL-88B Metal (Drganic Framework for Advanced Energetic Systems.	1
484	A Dihydrotetrazine-Functionalized Metal-Organic Framework as a Highly Selective Luminescent Host-Guest Sensor for Detection of 2,4,6-Trinitrophenol <b>2022</b> ,	1
483	An interesting 3D energetic metal - framework based Ag(I) ions and 3,4-diaminofurazan. 1-13	0
482	Synthesis, structures and properties of two lead halide coordination polymers based on pyridinedicarboxylate ligand. <b>2022</b> , 312, 123161	
481	Ultra-thin zeolite CHA and FAU membranes for desalination by pervaporation. 2022, 294, 121177	0
480	Competitive adsorption of methane and ethane on organic-rich shale at pressure up to 30 MPa: Experimental results and geological implications. <b>2022</b> , 444, 136617	O
479	Dynamics of Topology-dependent Water Purification by Siliceous Zeolite Membranes. <b>2022</b> , 359, 119250	О
478	Micrometer-sized MOF particles incorporated mixed-matrix membranes driven by IIInterfacial interactions for improved gas separation. <b>2022</b> , 121258	O

477	Utilization of cationic microporous metal-organic framework for efficient Xe/Kr separation.	2
476	Boosting C $_2$ H $_6$ / $_2$ H $_4$ separation in scalable metal-organic frameworks through pore engineering.	O
475	Ru(N?N)3-Metalloligand Pillared Zr6Drganic Layers for Aerobic Photooxidation.	
474	Universal Strategy to Efficiently Coat Zeolitic Imidazolate Frameworks onto Diverse Substrates.	
473	Tailoring Robust Al-MOF for Trapping C2H6 and C2H2 towards Efficient C2H4 Purification from Quaternary Mixtures.	2
472	A Water-Resistant Hydrogen-Bonded Organic Framework for Ethane/Ethylene Separation in Humid Environments. 1227-1232	3
471	Fluorescent dendrimer-based probes for cell membrane imaging: Zebrafish epidermal labeling-based toxicity evaluation. <b>2022</b> , 114403	2
470	On the adsorption properties and applications of mixed-linker MOFs based on HKUST-1. <b>2022</b> , 123260	O
469	Double-Accessible Open Metal Sites in Metal@rganic Frameworks with Suitable Pore Size for Efficient Xe/Kr Separation.	1
468	Cascade adsorptive separation of light hydrocarbons by commercial zeolites. 2022,	O
467	Cooperative control of intralayer and interlayer space in MOFs enables selective capture of intermediate-sized molecules. <b>2022</b> , 100903	1
466	Nanoscale metal organic frameworks and their applications in disease diagnosis and therapy. <b>2022</b> , 180, 107595	1
465	Cupric Porphyrin Frameworks on Multi-junction Silicon Photocathode to Expedite the Kinetics of CO2 Turnover.	1
464	Enhancing CH4 Capture from Coalbed Methane through Tuning van der Waals Affinity within Isoreticular Al-Based Metal©rganic Frameworks.	5
463	Investigation of methane adsorption onto metal Brganic frameworks under subcritical condition employing adsorption isotherm models. <b>2022</b> , 45,	
462	One-Pot Synthesis of Rubber Seed Shell-Derived N-Doped Ultramicroporous Carbons for Efficient CO2 Adsorption. <b>2022</b> , 12, 1889	
461	Microporous Metal®rganic Framework with Cage-within-Cage Structures for Xenon/Krypton Separation. <b>2022</b> , 61, 7397-7402	1
460	Effect of Synthesis Temperature on Water Adsorption in UiO-66 Derivatives: Experiment, DFT+D Modeling, and Monte Carlo Simulations. <b>2022</b> , 126, 9185-9194	O

459	A Scandium-based Microporous Metal-Organic Framework for Ethane-Selective Separation.	1
458	Preparation of electrospun polyacrylonitrile/?-cyclodextrin metal-organic framework nanofibers for extraction of multi-classes herbicides from cereal samples before HPLC-UV analysis. <b>2022</b> , 133350	Ο
457	One-step removal of alkynes and propadiene from cracking gases using a multi-functional molecular separator. <b>2022</b> , 13,	О
456	Defect-engineered metal-organic framework with enhanced photoreduction activity toward uranium extraction from seawater. <b>2022</b> , 3, 100892	1
455	Surface Modification Strategy for Enhanced NO2 Capture in Metal@rganic Frameworks. 2022, 27, 3448	2
454	Structure Evolution of Chemically Degraded ZIF-8.	Ο
453	Nanocomposites of functionalized Metal®rganic frameworks and magnetic graphene oxide for selective adsorption and efficient determination of Lead(II). <b>2022</b> , 123300	2
452	Single-Crystal Capacitive Sensors with Micropatterned Electrodes via Space-Confined Growth of the Metal®rganic Framework HKUST-1. 2204065	Ο
451	Configuration-Dependent Bimetallic Metal-Organic Frameworks Nanorods for Efficient Electrocatalytic Water Oxidation.	
450	Selective adsorption of ethane over ethylene through a metal®rganic framework bearing dense alkyl groups. <b>2022</b> , 295, 121330	1
449	Sulfate-functionalized hafnium-organic frameworks as a highly effective chemiresistive sensor for low-temperature detection of hazardous NH3 gas. <b>2022</b> , 367, 132094	О
448	State-of-the-art progress of metal-organic framework-based electrochemical and optical sensing platforms for determination of bisphenol A as an endocrine disruptor. <b>2022</b> , 212, 113536	Ο
447	Reverse-selective metalBrganic framework materials for the efficient separation and purification of light hydrocarbons. <b>2022</b> , 468, 214628	3
446	Novel amine-functionalized zinc-based metal-organic framework for low-temperature chemiresistive hydrogen sensing. <b>2022</b> , 368, 132120	O
445	MOF based electrochemical sensors for the detection of physiologically relevant biomolecules: An overview. <b>2022</b> , 468, 214627	3
444	Metal <b>©</b> rganic Frameworks as Sensors. 125-154	
443	Applications of Metal®rganic Frameworks in Wastewater Treatment and Gas Separation and Purification. 271-337	
442	Recent Advances and Challenges in Selective Environmental Applications of Metal <b>©</b> rganic Frameworks. 223-245	O

Environmental Applications of Metal Organic Frameworks. 247-255

440	Emerging Applications of Metal®rganic Frameworks for Environmental Remediation. 1-23	1
439	Application of transfer learning to predict diffusion properties in metalorganic frameworks.	O
438	Cationic metalBrganic frameworks constructed from a trigonal imidazole-containing ligand for the removal of Cr2O72lin water.	O
437	Cellulose Acetate Mixed-Matrix Membranes Doped with High Co2 Affinity Zeolitic Tetrazolate-Imidazolate Framework Additives.	
436	Cooperative catalysis in a metal <b>B</b> rganic framework via post-synthetic immobilisation. <b>2022</b> , 51, 9229-9232	O
435	High-throughput computational screening of nanoporous materials in targeted applications.	2
434	Efficient Xe selective separation from Xe/Kr/N2 mixtures over a microporous CALF-20 framework. <b>2022</b> , 12, 18224-18231	
433	METAL-ORGANIC FRAMEWORKS IN RUSSIA: FROM THE SYNTHESIS AND STRUCTURE TO FUNCTIONAL PROPERTIES AND MATERIALS. <b>2022</b> , 63, 671-843	1
432	Substituent Dependence on Series of Cationic Gyroidal MOFs in utc-c Topology with High CO2 Affinity and Ultrahigh Anionic Dye Adsorption Capacity.	1
431	Recent Advances in Carbon-Based Adsorbents for Adsorptive Separation of Light Hydrocarbons. <b>2022</b> , 2022, 1-21	0
430	A spin-crossover framework endowed with pore-adjustable behavior by slow structural dynamics. <b>2022</b> , 13,	2
429	A Review of Preconcentrator Materials, Flow Regimes and Detection Technologies for Gas Adsorption and Sensing. 2200632	1
428	Hydrogen isotope separation using a metal-organic cage built from macrocycles.	
427	Chiral Motifs in Highly Interpenetrated Metal-Organic Frameworks Formed from Achiral Tetrahedral Ligands.	
426	Hydrogen isotope separation using a metal-organic cage built from macrocycles.	1
425	MoloVol: an easy-to-use program for analyzing cavities, volumes and surface areas of chemical structures. <b>2022</b> , 55,	5
424	Molecular Sieving of Propylene from Propane in Metal©rganic Framework-Derived Ultramicroporous Carbon Adsorbents.	4

423 A Microporous Potassium-Organic Framework for Efficient C 2 H 2 /CO 2 Separation. 2022, 7,

422	Efficient Nitroaromatic sensor via highly luminescent Zn-based Metal-organic Frameworks. <b>2022</b> , 100348	1
421	Design Rules of Hydrogen-Bonded Organic Frameworks with High Chemical and Thermal Stabilities. <b>2022</b> , 144, 10663-10687	16
420	MetalDrganic Frameworks on Palladium NanoparticleBunctionalized Carbon Nanotubes for Monitoring Hydrogen Storage.	1
419	Double Z-scheme Co3O4/Bi4O7/Bi2O3 composite activated peroxymonosulfate to efficiently degrade tetracycline under visible light.	О
418	A Two-Dimensional Stacked Metal-Organic Framework for Ultra Highly-Efficient CO2 Sieving. <b>2022</b> , 137768	O
417	Porous liquids for gas capture, separation, and conversion: Narrowing the knowing-doing gap. <b>2022</b> , 297, 121456	O
416	Pd and Ni NPs@Eu-MOF, an economically advantageous nanocatalyst for C(sp2)-C(sp2) cross-coupling reactions. Key role of Ni and of the metal nanoparticles. <b>2022</b> , 223, 115950	1
415	Synthesis of core-shell ZIF-8@⊞e2O3 nanorods and improvement of selectivity for ammonia gas. <b>2022</b> , 367, 132134	O
414	NLDFT adsorption models for zeolite porosity analysis with particular focus on ultra-microporous zeolites using O2 and H2. <b>2022</b> , 625, 178-186	
413	Accessing accelerated molecular diffusion by nanopore alignment in a MOF thin film.	O
412	Preparation of an interpenetrating bimetal metal-organic framework via metal metathesis used for promoting gas adsorption.	
411	Pervaporation Separation of C6 Alkane Isomers by Al-Bttotb Membrane.	
410	Recent advances in bimetallic metal@rganic frameworks (BMOFs): synthesis, applications and challenges.	5
409	Metal-organic frameworks (MOFs), rare earth MOFs, and rare earth functionalized MOF hybrid materials. <b>2022</b> , 3-40	
408	Applications of metal-organic framework based membranes in energy storage and conversion. <b>2022</b> , 259-272	
407	Influence of reaction temperature and stoichiometry on the coordination mode of a multidentate pyridylpyrazole ligand in Co(ii) complexes: from a 0D mononuclear structure to 3D frameworks.	
406	Acetylenedicarboxylate as linker in the engineering of coordinalition polymers and metal-organic frameworks: challenges and potential.	O

405	A Coordination Network Featuring Two Distinct Copper(II) Coordination Environments for Highly Selective Acetylene Adsorption.	O
404	Boosting SO2 Capture within Nitrogen-Doped Microporous Biocarbon Nanosheets. <b>2022</b> , 61, 9785-9794	
403	Designing of robust and sensitive assay via encapsulation of highly emissive and stable blue copper nanocluster into zeolitic imidazole framework (ZIF-8) with quantitative detection of tetracycline. <b>2022</b> , 13,	2
402	Dynamic Variation of Responsive Metal-Organic Frameworks toward Specific Stimuli. 2022, 79, 50-57	
401	Porous Adsorption Materials for Carbon Dioxide Capture in Industrial Flue Gas. 10,	1
400	Tailored Inorganic-Organic Architectures via Metalloligands.	O
399	Topological Aspects of Certain Covalent Organic Frameworks and Metal Organic Frameworks. <b>2022</b> , 2022, 1-9	
398	Synergistic binding sites in a hybrid ultramicroporous material for one-step ethylene purification from ternary C 2 hydrocarbon mixtures. <b>2022</b> , 8,	6
397	Lead(II)-Azido Metal©rganic Coordination Polymers: Synthesis, Structure and Application in PbO Nanomaterials Preparation. <b>2022</b> , 12, 2257	
396	Two Robust Isoreticular Metal©rganic Frameworks with Different Interpenetration Degrees Exhibiting Disparate Breathing Behaviors. <b>2022</b> , 61, 10957-10964	1
395	Synthesis, spectral, structural characterization and Hirshfeld surface analysis of bis(4-hydroxypyridinium) hexacholorostannate(IV) hybrid. 1-15	
394	Improving CH 4 uptake and CH 4 $/$ N 2 separation in pillar-layered metal $\overline{b}$ rganic frameworks using a regulating strategy of interlayer channels.	O
393	Molecular and Artificial Neural Networks Modeling of Sorption and Diffusion of Small Alkanes, Alkenes and Their Ternary Mixtures in ZIF-8 at Different Temperatures.	
392	Two-Dimensional MetalDrganic Framework with Ultrahigh Water Stability for Separation of Acetylene from Carbon Dioxide and Ethylene.	3
391	Nitro-Decorated Microporous Covalent Organic Framework (TpPa-NO2) for Selective Separation of C2H4 from a C2H2/C2H4/CO2 Mixture and CO2 Capture.	2
390	Investigation on crystal structure, spectral FT-IR analysis, DFT and molecular docking studies of a novel complex with the N?-(pyridin-2-ylmethylene)nicotinohydrazide. <b>2022</b> , 133741	O
389	Discrimination of xylene isomers in a stacked coordination polymer. <b>2022</b> , 377, 335-339	7
388	One-pot Economic Synthesis to the Functional Copper Mixed-triazolate MOF Materials Towards an Enhanced Adsorptive Removal of Diclofenac Sodium. <b>2022</b> , 7,	

387	Molecular fluorescence significantly enhanced by gold nanoparticles@zeolitic imidazolate framework-8.	
386	Tailoring Lewis Acid Properties of Metal@rganic Framework Nodes via Anion Post-Replacement for Gas Adsorption and Separation.	О
385	Polyhedral Co3O4@ZnO nanostructures as proficient photocatalysts for vitiation of organic dyes from waste water. <b>2022</b> , 362, 119765	1
384	Metal©rganic Framework: An Emergent Catalyst in CN Cross-Coupling Reactions. 2022, 469, 214667	4
383	Iron-containing metal-organic framework thin film as a drug delivery system. 2022, 650, 129611	1
382	Molecular simulation study on the stability of methane hydrate confined in slit-shaped pores. <b>2022</b> , 257, 124738	О
381	Multi-dimensional metal-organic frameworks based on mixed linkers: Interplay between structural flexibility and functionality. <b>2022</b> , 469, 214645	5
380	Adsorption and diffusion of the H2/CO2/CO/MeOH/EtOH mixture into the ZIF-7 using molecular simulation. <b>2022</b> , 116, 108275	O
379	Self-luminescent europium based metal organic frameworks nanorods as a novel electrochemiluminescence chromophore for sensitive ulinastatin detection in biological samples. <b>2022</b> , 250, 123726	0
378	How to Design Porous Organic Polymers as Gas Capture?. 1-4	
377	Metal-Organic Frameworks for Wastewater Decontamination: Discovering Intellectual Structure and Research Trends. <b>2022</b> , 15, 5053	1
376	Combination of metal-organic frameworks (MOFs) and covalent organic frameworks (COFs): Recent advances in synthesis and analytical applications of MOF/COF composites. <b>2022</b> , 116741	4
375	Analysis of CH4 Adsorption Isotherms onto MIL-101 (Cr) Metal-Organic Framework and Its Derivatives with Alkali Ion Dopants.	
374	pH-Stable Luminescent Metal©rganic Frameworks for the Selective Detection of Aqueous-Phase FeIII and CrVI Ions.	2
373	N2-selective adsorbents and membranes for natural gas purification. <b>2022</b> , 121808	O
372	Folic acid-modified disulfiram/Zn-IRMOF3 nanoparticles for oral cancer therapy by inhibiting ALDH1A1+ cancer stem cells. <b>2022</b> , 139, 213038	O
371	Nanoconfined synthesis of conjugated ladder polymers.	
370	Correlation between Structure and Dynamics of Co2 Confined in Mg-Mof-74 and the Role of Inter-Crystalline Space: A Molecular Dynamics Simulation Study.	

369	Recent advances in microporous metal®rganic frameworks as promising adsorbents for gas separation.	2
368	An Elastic Mof/Graphene Aerogel with High Photothermal Efficiency for Rapid Removal of Crude Oil.	
367	Selective adsorption of butenes over butanes on isoreticular Ni-IRMOF-74-I and Ni-IRMOF-74-II. <b>2022</b> , 12, 20599-20602	1
366	The Impact of Polymer Electrolyte Properties on Lithium-Ion Batteries. 2022, 14, 3101	
365	RhB@MOF-5 Composite Film as a Fluorescence Sensor for Detection of Chilled Pork Freshness. <b>2022</b> , 12, 544	O
364	Copper-Based Catalysts for Electrochemical Carbon Dioxide Reduction to Multicarbon Products. <b>2022</b> , 5,	1
363	On Some Topological Indices of Metal-Organic Frameworks. 1-22	
362	Recent Advances in Ethylene Gas Detection. <b>2022</b> , 15, 5813	1
361	Facile Preparation of Triphenylamine-Based Nanoporous Organic Polymers for Adsorption/Separation of C1tt Hydrocarbons and CO2 in Natural Gas. <b>2022</b> , 4, 5449-5456	1
360	Engineering Anion-Pillared Metal®rganic Frameworks for Record Acetylene/Methane Separation.	O
359	Kinetic-Sieving of Carbon Dioxide from Acetylene through a Novel Sulfonic Ultramicroporous Material.	2
358	2D Metal-Organic Framework Based on the Functionalized Anthracene Derivative as A Dual-Functional Luminescent Probe for Fe 3+ and Ascorbic Acid. <b>2022</b> , 7,	
357	Selective CO2-to-Formate Conversion Driven by Visible Light over a Precious-Metal-Free Nonporous Coordination Polymer. <b>2022</b> , 12, 10172-10178	1
356	Carbon-Doped TiO2/ZIF-8 Composite for Solar Light Harvested Degradation of Methylene Blue.	
355	Tailor-made iron-organic molecular cage embedded polydimethylsiloxane membranes via emulsion casting technique for efficient VOCs removal.	
354	Multi-scale dynamical cross-talk in zeolite-catalyzed methanol and dimethyl ether conversions.	2
353	Two zinc and cadmium coordination polymers constructed with bis(4-(1H-imidazol-1-yl)phenyl)methanone and naphthalene-1,4-dicarboxylate ligands: synthesis and structural characterization. <b>2022</b> ,	
352	Antimicrobial and Gas Adsorption Properties of Electrospun Ferrocene-Polyurethane-Based Nanofibers Containing Silver Nitrate.	

351	Metal Drganic Framework Accelerated One-Step Capture and Reduction of Palladium to Catalytically Active Nanoparticles.	1
350	Fabrication and analysis of barium-based metal organic framework characteristic properties.	
349	Engineering Supramolecular Binding Sites in a Chemically Stable Metal Drganic Framework for Simultaneous High C2H2 Storage and Separation.	
348	Engineering Supramolecular Binding Sites in a Chemically Stable Metal®rganic Framework for Simultaneous High C2H2 Storage and Separation.	6
347	Metal®rganic Frameworks for CO 2 Separation from Flue and Biogas Mixtures. 2207197	3
346	Multifunctional Lanthanide-Based Metal Organic Frameworks Derived from 3-Amino-4-hydroxybenzoate: Single-Molecule Magnet Behavior, Luminescent Properties for Thermometry, and CO2 Adsorptive Capacity. <b>2022</b> , 61, 12977-12990	1
345	Noble-metal free SuzukiMiyaura reaction catalyzed by magnetically recyclable MOF composites.	Ο
344	Single-layer 2D Ni-BDC MOF Obtained in Supercritical CO2-assisted Aqueous Solution.	
343	Kinetic-Sieving of Carbon Dioxide from Acetylene through a Novel Sulfonic Ultramicroporous Material.	2
342	Amino-Functionalized Microporous MOFs for Capturing Greenhouse Gases CF4 and NF3 with Record Selectivity.	O
341	Metal-organic frameworks in separations: A review. <b>2022</b> , 340208	О
340	Prospects for Simultaneously Capturing Carbon Dioxide and Harvesting Water from Air. 2204277	3
339	Design of Gas Separation Processes Using Type II Porous Liquids as Physical Solvents. <b>2022</b> , 61, 11908-11921	0
338	Survey on Adsorption of Low Molecular Weight Compounds in Cu-BTC Metal®rganic Framework: Experimental Results and Thermodynamic Modeling. <b>2022</b> , 23, 9406	
337	Catalytic synthesis of new pyrazolo [3,4-b] pyridine via a cooperative vinylogous anomeric-based oxidation. <b>2022</b> , 12,	2
336	Sensitive Detection of Alcohol Isomers by Ionically Conductive Metal-Organic Frameworks. 2200542	
335	A review of synthesis, fabrication, and emerging biomedical applications of metal-organic frameworks. <b>2022</b> , 140, 213049	0
334	Enhancing the natural gas upgrading and acetylene extraction performance of stable zirconium-organic frameworks PCN-605 by ligand functionalization. <b>2022</b> , 10, 108383	

333	Design of carbonized melamine sponge@MOFs composites bearing diverse acid-base properties for boosting thermal and solar-driven CO2 cycloaddition. <b>2022</b> , 64, 102158	О
332	Fabrication of Ce-doped MIL-100(Fe), its adsorption performance, and the mechanisms to adsorb phosphate from water. <b>2022</b> , 28, 102847	О
331	Pervaporation separation of C6 alkane isomers by Al-bttotb membrane. <b>2022</b> , 661, 120916	
330	Efficient CO2/CO separation through channel confinements in an amino-coordinated metal-organic framework. <b>2022</b> , 327, 133064	O
329	Plasmonic coated spindle-shaped MIL-88A(Fe) ternary composites heterojunction for photocatalytic degradation of tetracycline: Mechanism studies and theoretical calculation. <b>2022</b> , 603, 154429	
328	New mixed ligand complexes of alkaline earth metal cations containing nicotinamide and diphenic acid. Synthesis and structural properties. <b>2022</b> , 1270, 133893	
327	A stable turn-off fluorescence sensor for nitroaromatic explosives and Fe3+ detection based on a 3D strontium coordination polymer. <b>2022</b> , 1270, 133944	
326	Porous 3D carbon-based materials: An emerging platform for efficient hydrogen production.	2
325	Two-dimensional Zn( II ) coordination polymer and hydrogen bond-mediated two-dimensional Cu( II ) network based on trans -2-aminocyclopentanecarboxylate.	О
324	Pillar[n]arene-Mimicking/Assisted/Participated Carbon Nanotube Materials. <b>2022</b> , 15, 6119	O
323	Investigation of catalytic activity of vanadyl sulphate immobilized on prepared UiO-66 modified with urea and melamine as allyl alcohol epoxidation catalysts.	O
322	Friedel <b>©</b> rafts Synthesis of Carbazole-Based Hierarchical Nanoporous Organic Polymers for Adsorption of Ethane, Carbon Dioxide, and Methane. <b>2022</b> , 61, 13453-13460	О
321	Recent developments on carbon-carbon cross-coupling reactions using rare-earth metals-derived coordination polymers as efficient and selective Pd catalytic systems. <b>2022</b> ,	O
320	SiO2 Deposition to Regulate Surface Barriers and Its Impact on ZSM-5 Catalyzed Reactions with Distinct Molecular Sizes.	О
319	Potential of novel porous materials for capture of toluene traces in air under humid conditions. <b>2022</b> , 344, 112204	1
318	An ethane-trapping Zn (II) cluster-based metal-organic framework with suitable pockets for efficient ethane/ethylene separation. <b>2022</b> , 301, 122011	1
317	Multifunctional drug delivery nanoparticles based on MIL-100 (Fe) for photoacoustic imaging-guided synergistic chemodynamic/chemo/photothermal breast cancer therapy. <b>2022</b> , 223, 111132	O
316	CO2 capture from wet flue gas using transition metal inserted porphyrin-based metal-organic frameworks as efficient adsorbents. <b>2022</b> , 301, 122058	O

315	Two-dimensional metal-organic frameworks: From synthesis to biomedical, environmental, and energy conversion applications. <b>2022</b> , 473, 214817	1
314	Facile synthesis of dptz-CuGeF6 at room temperature and its adsorption performance for separation of CO2, CH4 and N2. <b>2022</b> , 302, 122054	o
313	Finding the optimal CO2 adsorption material: Prediction of multi-properties of metal-organic frameworks (MOFs) based on DeepFM. <b>2022</b> , 302, 122111	О
312	Discovery of highly radon-selective metal-organic frameworks through high-throughput computational screening and experimental validation. <b>2023</b> , 452, 139189	О
311	Metal <b>B</b> rganic-framework composite-based rapid self-detoxifying smart textile filters for chemical warfare agents. <b>2023</b> , 33-79	O
310	Dual functionality of novel Porous-Osmium(IV)-MOFs. <b>2023</b> , 1271, 134150	О
309	A charge-decorated porous framework with polar pores and open O donor sites for CO2/CH4 and C2H2/C2H4 separations. <b>2022</b> , 51, 13419-13425	0
308	A facile one-pot preparation of porphyrin-based microporous organic polymers for adsorption of carbon dioxide, ethane, and methane.	О
307	A self-arranged metal Brganic polyhedron/fullerene asymmetric structure improves the performance of inverted perovskite solar cells.	0
306	Application of Metal-Organic Frameworks in Gas Pre-concentration, Pre-separation and Detection. <b>2022</b> , 80, 1183	О
305	Recent advances in the applications of porous organic cages.	4
304	MOF and its application in electrochemistry. <b>2022</b> , 219-253	О
303	Boosting C2H2/CO2 separation of metalBrganic frameworks via anion exchange and temperature elevation.	О
302	Preparation of new microporous europium silicate molecular sieve by selective leaching of alkali metal cations from europium silicate Eu-AV-9.	О
301	Supramolecular modification of a metal@rganic framework increases sorption switching: insights into reversible structural deformation of ZIF-8.	O
300	Multivariate zeolitic imidazolate frameworks with an inverting trend in flexibility.	1
299	Immobilization of a trimeric ruthenium cluster in mesoporous chromium terephthalate and its catalytic application. <b>2022</b> , 51, 13189-13194	1
298	Zn(ii) and Co(ii) coordination polymers based on semi-rigid bis-pyridyl-bis-amide and angular dicarboxylate ligands: synthesis, structures and properties. <b>2022</b> , 24, 6076-6086	1

297	Enhanced Xe/Kr separation via the pore size confinement effect of a microporous thorium-based metalBrganic framework.	О
296	Data-Mining Based Assembly of Promising Metal-Organic Frameworks on Xe/Kr Separation.	O
295	MetalBrganic frameworks as O2-selective adsorbents for air separations. <b>2022</b> , 13, 10216-10237	O
294	Nanoparticle/metal@rganic framework hybrid catalysts: elucidating the role of the MOF. <b>2022</b> , 58, 1075	7-1076ዥ
293	Robust metallorganic framework with abundant large electronegative sites for removal of CO2 from a ternary C2H2/C2H4/CO2 mixture. <b>2022</b> , 9, 5064-5071	3
292	Nanoconfinement Lamplified, FEster resonance energy transfer in nile red Lborne mesoporous silica for ultrasensitive, multiplex assay of triphenylmethane dyes in aqueous milieu.	O
291	Rational synthesis of a pyridyl-imidazoquinazoline based multifunctional 3D Zn(ii)-MOF: structure, luminescence, selective and sensitive detection of Al3+ and TNP, and its semiconducting device application. <b>2022</b> , 51, 13749-13761	1
290	The Role of the Bridge in Single-Ion Magnet Behaviour: Reinvestigation of Cobalt(II) Succinate and Fumarate Coordination Polymers with Nicotinamide. <b>2022</b> , 10, 128	O
289	Adsorption Interface-Induced HF Charge Transfer in Ultramicroporous Metal Drganic Frameworks for Perfluorinated Gas Separation. <b>2022</b> , 61, 13603-13611	Ο
288	On the Role of Flexibility for Adsorptive Separation.	1
287	Tuning Metal <b>D</b> ihydrogen Interaction in Metal <b>D</b> rganic Frameworks for Hydrogen Storage. <b>2022</b> , 13, 9129-9133	1
286	Growth of Nanostructured Antibacterial Zeolitic Imidazolate Framework Coatings on Porous Surfaces.	Ο
285	Demonstration of High-Throughput Building Block and Composition Analysis of Metal <b>D</b> rganic Frameworks.	Ο
284	Th-MOF showing six-fold imide-sealed pockets for middle-size-separation of propane from natural gas.	1
283	Bottom-Up De Novo Synthesis of Porous Organic Polymers with Enone Functionalities as Supports for Pd and Cu Nanoparticles for Catalytic Tandem Synthesis.	1
282	A comprehensive overview of carbon dioxide capture: From materials, methods to industrial status. <b>2022</b> ,	1
281	Probing the origin and stability of bivalency in copper based porous coordination network and its	O
	application for H2S gas capture. <b>2022</b> , 12,	

279	High-Performance Adsorbent for Ethane/Ethylene Separation Selected through the Computational Screening of Aluminum-Based Metal (Drganic Frameworks. 2022, 14, 43637-43645)	Ο
278	Metal®rganic Framework with Structural Flexibility Responding Specifically to Acetylene and Its Adsorption Behavior.	О
277	Catalytic activity of C60 fullerene nanowhiskerDeolitic imidazolate framework-67 composite for reduction of 4-nitrophenol. 1-7	O
276	Pervaporation Polyvinyl Alcohol Membranes Modified with Zr-Based Metal Organic Frameworks for Isopropanol Dehydration. <b>2022</b> , 12, 908	1
275	Fe 3 O 4 @Glutamate MOF Functionalized with Co Nanoparticles Anchored Dicyandiamde: as a Capable Heterogeneous and Reusable Nanocatalyst in C-P Cross-Coupling Reaction.	O
274	MIL-101-Cr/Fe/Fe-NH2 for Efficient Separation of CH4 and C3H8 from Simulated Natural Gas.	О
273	A Porous Polyaromatic Solid for Vapor Adsorption of Xylene with High Efficiency, Selectivity, and Reusability.	O
272	Guest-molecule-induced self-adaptive pore engineering facilitates purification of ethylene from ternary mixture. <b>2022</b> ,	3
271	Energetic Systematics of Metal©rganic Frameworks: A Case Study of Al(III)-Trimesate MOF Isomers. <b>2022</b> , 61, 15152-15165	O
270	A Critical Review on New and Efficient 2D Materials for Catalysis. 2200771	О
269	Mechanistic Principles for Engineering Hierarchical Porous Metal Drganic Frameworks. 2022, 16, 13573-13594	1
268	Unique Fluorescence Turn-On and Turn-Off©n Responses to Acids by a Carbazole-Based Metal©rganic Framework and Theoretical Studies. <b>2022</b> , 144, 17054-17063	2
267	Construction of Halogen-Bonded Organic Frameworks (XOFs) as Novel Efficient Iodinating Agents. <b>2022</b> , 14, 43621-43627	O
266	Manipulation strategies for improving gas separation performance on metal-organic frameworks membranes. <b>2022</b> , 15, 100609	O
265	Co- and Ni-Based Electroactive Metal Drganic Frameworks for Stable Lithium Storage: Electrochemical and Charge-Storage Behavior in Response to Different Metal Centers. <b>2022</b> , 22, 5872-5882	О
264	Desolvation-Degree-Induced Structural Dynamics in a Rigid Cerium Drganic Framework Exhibiting Tandem Purification of Ethylene from Acetylene and Ethane. <b>2022</b> , 14, 44460-44469	1
263	Molecularly Homogenized Composite Membranes Containing Solvent-Soluble Metallocavitands for CO2/CH4 Separation.	0
262	Fast hydrogen purification through graphitic carbon nitride nanosheet membranes. 2022, 13,	O

261	Hierarchical Metal Drganic Aerogel as a Highly Selective and Sustainable CO2 Adsorbent.	0
260	Boosting Ethane/Ethylene Separation by MOFs through the Amino-Functionalization of Pores.	7
259	Purification of borneol from its isomeric mixture by using metal-organic frameworks. <b>2022</b> , 122213	0
258	Boosting Ethane/Ethylene Separation by MOFs through the Amino-Functionalization of Pores.	О
257	Stacked conductive metalorganic framework nanorods for high-performance vacuum electronic devices. <b>2022</b> , 48, 34092-34097	O
256	Fabrication of mixed matrix membranes with regulated MOF fillers via incorporating guest molecules for optimizing light hydrocarbon separation performance.	o
255	Cu2+-encapsulated ZIF-8 as a facile catalyst for the synthesis of kojic acid derivatives in aqueous medium: A green approach. <b>2022</b> , 4, 100604	0
254	Directed molecular structure design of coordination polymers with different ligands for regulating output performance of triboelectric nanogenerators. <b>2022</b> , 12, 30051-30055	О
253	A novel trigonal bipyramidal cage-based Zn(ii)-MOF featuring two types of trinuclear clusters with high gas sorption properties.	0
252	Spatial disposition of square-planar mononuclear nodes in metal <b>b</b> rganic frameworks for C2H2/CO2 separation.	4
251	Hydrophobic paraffin-selective pillared-layer MOFs for olefin purification.	0
250	Effect of flexible chain length of the dimetal subunit on the formation of 1D coordination polymer to molecular rectangle.	O
249	Selective Separation of Gases by Metal Organic Framework Materials (Mofs). 2022, 2194, 012005	0
248	Recent reports on vanadium based coordination polymers and MOFs. 2022,	o
247	Creating hierarchical pores in metalorganic frameworks via postsynthetic reactions.	4
246	Reversibly Phase-Transformative Zeolitic Imidazolate Framework-108 and the Membrane Separation Utility. <b>2022</b> , 61, 17342-17352	o
245	Electrically regulating nonlinear optical limiting of metal-organic framework film. 2022, 13,	4
244	Crystallographic Mapping and Tuning of Water Adsorption in Metal <b>©</b> rganic Frameworks Featuring Distinct Open Metal Sites. <b>2022</b> , 144, 19567-19575	1

243	Influence of Pore Size on Hydrocarbon Transport in Isostructural Metal <b>©</b> rganic Framework Crystallites. <b>2022</b> , 14, 47222-47229	1
242	Shining a Light on Photoresponsive Type III Porous Liquids.	O
241	Stimulus Response Lanthanide MOF Materials Encapsulated with Viologen Derivatives: Characterization, Photophysical Properties and Sensing on Nitrophenols.	0
240	Fine Tuning the Pore Surface in Zirconium Metal®rganic Frameworks for Selective Ethane/Ethylene Separation.	O
239	Computational study of the effect of grain boundary and nano-porosity on xenon behavior in UO2. <b>2022</b> , 132, 155101	0
238	Zeolites in Adsorption Processes: State of the Art and Future Prospects.	6
237	The Complexity of Comparative Adsorption of C6 Hydrocarbons (Benzene, Cyclohexane, n-Hexane) at Metal (Drganic Frameworks. <b>2022</b> , 12, 3614	O
236	A sensitive and selective electrochemical aptasensor based on gold nanoflower/polyethyleneimine (PEI)-functionalized metal organic framework nanocomposites for label-free determination of streptomycin in milk samples.	O
235	A novel approach based on the ultrasonic-assisted microwave method for the efficient synthesis of Sc-MOF@SiO2 core/shell nanostructures for H2S gas adsorption: A controllable systematic study for a green future. 10,	0
234	Toward Ideal Metal Drganic Framework Thin-Film Growth via Automated Layer-by-Layer Deposition: Examples Based on Perylene Diimide Linkers.	1
233	Bifunctional Self-Penetrating Co(II)-Based 3D MOF for High-Performance Environmental and Energy Storage Applications.	2
232	A Targeted Review of Current Progress, Challenges and Future Perspective of g-C 3 N 4 based Hybrid Photocatalyst Toward Multidimensional Applications.	O
231	Vapor-Assisted Powder Synthesis and Oriented MOF-CVD Thin Films of the Metal®rganic Framework HKUST-1.	O
230	Potential of a pH-Stable Microporous MOF for C2H2/C2H4 and C2H2/CO2 Gas Separations under Ambient Conditions.	1
229	Green and efficient removal of sulfides using oxo-peroxo tungsten(VI)-MIL-101(Cr) nanoreactor as heterogeneous recyclable catalyst. <b>2022</b> , 121274	O
228	Novel CdS/MIL-88A heterojunction coupled with H2O2/air-nanobubbles for enhanced visible-light driven photocatalytic performance. <b>2022</b> , 135007	O
227	Multifunctional nanocellulose-based composites for potential environmental applications.	O
226	Photocatalytic properties of two new isostructural cobalt(II) and nickel(II) complexes having terphenyl-3,3?,4,4?-teteacarboxylic acid. <b>2022</b> , 228, 116158	O

225	Effective adsorbent for the removal of bisphenol A from water: MOF-derived carbon. <b>2022</b> , 346, 112285	0
224	Metal-organic frameworks-based broad-spectrum sensor for total tetracycline antibiotics assay. <b>2022</b> , 208, 110887	O
223	A review of waste management approaches to maximise sustainable value of waste from the oil and gas industry and potential for the State of Qatar. <b>2023</b> , 332, 126220	О
222	A review on metal-organic frameworks for the removal of hazardous environmental contaminants. <b>2023</b> , 305, 122416	O
221	Molecular insights into the role of O2 in reversed C2H6/C2H4 separation on metal®rganic frameworks. <b>2023</b> , 304, 122332	О
220	Data-mining based assembly of promising metal-organic frameworks on Xe/Kr separation. <b>2023</b> , 304, 122357	O
219	Thermodynamic and kinetic synergetic separation of CO2/C2H2 in an ultramicroporous metal-organic framework. <b>2023</b> , 304, 122318	2
218	Progress reports of mineralized membranes: Engineering strategies and multifunctional applications. <b>2023</b> , 304, 122379	5
217	MOFs meet electrospinning: New opportunities for water treatment. <b>2023</b> , 453, 139669	2
216	Water-reservoir properties dependent on packing modes of [Ni(II)3L6] cages.	O
215	Construction of a dual-cage-based MOF with uncoordinated nitrogen sites for CO2 adsorption and fixation. <b>2023</b> , 317, 123699	0
214	Multiblock copolymers containing polyether segments for separation of C4 hydrocarbons. <b>2023</b> , 666, 121176	O
213	Effect of temperature on metal-organic frameworks chemical sensors detection properties. <b>2023</b> , 184, 108156	0
212	An elastic MOF/graphene aerogel with high photothermal efficiency for rapid removal of crude oil. <b>2023</b> , 443, 130339	O
211	Exceptionally Water-Stable In(III)-Based Framework with Conjugated Rhombohedral Cavities for Efficiently Separating Humid Flue Gas.	O
210	Enhancement of Propadiene/Propylene Separation Performance of Metal©rganic Frameworks by an Amine-Functionalized Strategy.	O
209	Microscale Determination of Binary Gas Adsorption Isotherms in MOFs. <b>2022</b> , 144, 20939-20946	О
208	Vapor sorption behavior in heptazine-based MOF featuring a brick-shaped framework. <b>2022</b> , 123735	Ο

207	A novel C2H2-selective microporous Cd-MOF for C2H2/C2H4 and C2H2/CO2 separation. 2022, 122678	О
206	Metal-organic framework nanofilm enhances serum metabolic profiles for diagnosis and subtype of cardiovascular disease. <b>2022</b> , 107992	2
205	Two-Dimensional Transition Metal-Hexaaminobenzene Monolayer Single-Atom Catalyst for Electrocatalytic Carbon Dioxide Reduction. <b>2022</b> , 12, 4005	О
204	Enhanced Photocatalytic CO2 Reduction by Novel Designed Porphyrin-Based MOFs: From Accurate QSPR Model to Experimental Exploration. <b>2022</b> , 7, 40869-40881	Ο
203	Metal-Organic Frameworks for Catalytic Construction of C-B Bond and Related Reactions.	О
202	trans-[Ni(pdm)2]2+ (pdm = 2-pyridinemethanol) as a reliable synthon for isoreticular metal <b>ö</b> rganic frameworks of linear dicarboxylates. <b>2022</b> , 123721	1
201	Highly Efficient Separation of C8 Aromatic Isomers by Rationally Designed Nonaromatic Metal Drganic Frameworks.	4
200	Bis(Vinylenedithio)-Tetrathiafulvalene-Based Coordination Networks.	O
199	Formation of a Polar Flow Channel with Embedded Gas Recognition Pockets in a Yttrium-Based MOF for Enhanced C2H2/C2H4 and CO2 Selective Adsorptions.	О
198	Incorporation of metal-organic framework MOFs-5 into the polymer monolith via the surface covalent immobilization method for enhanced capillary liquid chromatographic separation of benzene homologues. <b>2022</b> , 100199	O
197	Polymorphism from a 1:1 Ln:BTB Reaction Pot: Solvothermal versus Sonochemical Synthesis of Ln-MOFs. <b>2022</b> , 121299	О
196	Porous metal®rganic framework nanoscale carriers as a potential platform for drug delivery. <b>2023</b> , 153-176	O
195	High proton conductivity modulated by active protons in 1D ultra-stable metal-organic coordination polymers: a new insight into coordination interaction/ability of metal ion.	О
194	Condensability sieving porous coordination polymer membranes for preferential permeation of C1tt alkanes over H2. <b>2022</b> , 2, 100044	Ο
193	Cellulose acetate mixed-matrix membranes doped with high CO2 affinity zeolitic tetrazolate-imidazolate framework additives. <b>2023</b> , 182, 105463	О
192	AlPO-18 membranes for CO2/CH4 and N2/CH4 separations. <b>2023</b> , 348, 112416	O
191	Dative B<-N bonds based crystalline organic framework with permanent porosity for acetylene storage and separation.	1
190	Adsorbate-dependent phase switching in the square lattice topology coordination network [Ni(4,4?-bipyridine)2(NCS)2]n.	O

189	Emerging applications of metal-organic frameworks and derivatives in solar cells: Recent advances and challenges. <b>2023</b> , 152, 100714	1
188	A prediction model to predict the thermodynamic conditions of gas hydrates. <b>2023</b> , 313, 137550	O
187	Separation of trans-1, 3-butadiene from C hydrocarbons mixtures by metal organic framework: A molecular dynamics simulation investigation. <b>2023</b> , 566, 111790	0
186	Recent advance of macroscopic metal-organic frameworks for water treatment: A review. <b>2023</b> , 36, 102564	2
185	Synthesis, characterization, and gas adsorption performance of an efficient hierarchical ZIF-11@ZIF-8 coreBhell metalBrganic framework (MOF). <b>2023</b> , 307, 122679	O
184	Computational insight into spatial and electronic structure of bis-diketonate cobalt complexes with triphenodioxazine ligands. <b>2023</b> , 813, 140286	O
183	Influence of flue gas components on the mercury adsorption/oxidation by mechanochemical S2Cl2-modified sawdust coke. <b>2023</b> , 336, 127154	1
182	Correlation between structure and dynamics of CO2 confined in Mg-MOF-74 and the role of inter-crystalline space: A molecular dynamics simulation study. <b>2023</b> , 612, 155909	O
181	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. <b>2023</b> , 290, 122244	1
180	Insights into the adsorption performance and separation mechanisms for CO2 and CO on NaX and CaA zeolites by experiments and simulation. <b>2023</b> , 337, 127179	1
179	Breaking trade-off effect of Xe/Kr separation on microporous and heteroatoms-rich carbon adsorbents. <b>2023</b> , 308, 122942	0
178	Bimetal NiCo-MOF-74 for highly selective NO capture from flue gas under ambient conditions. <b>2022</b> , 12, 33716-33724	O
177	MetalBrganic frameworks incorporating azobenzene-based ligands as a heterogeneous Lewis-acid catalyst for cyanosilylation of imines. <b>2022</b> , 12, 35461-35468	1
176	A New Photoactive Cd(II) MOF: Dye Degradation and Nursing Values on Postpartum Infection by Inhibiting the Staphylococcus aureus Growth. <b>2022</b> , 14, 1277-1283	O
175	Cd-Based Coordination Polymer Using a Bioinspired Ligand: Studies Toward Turn-On Luminescence-Based Sensing and Schottky Diode Behavior through Device Fabrication. <b>2022</b> , 22, 7050-7061	O
174	Untangling Framework Confinements: A Dynamical Study on Bulky Aromatic Molecules in MFI Zeolites. <b>2022</b> , 12, 15288-15297	O
173	Synthesis and Structure of a Copper-Based Functional Network for Efficient Organic Dye Adsorption. <b>2022</b> , 61, 19764-19772	0
172	N-donating and water-resistant Zn-carboxylate frameworks for humid carbon dioxide capture from flue gas. <b>2022</b> , 126793	O

171	Selective and rapid extraction of trace amount of gold from complex liquids with silver(I)-organic frameworks. <b>2022</b> , 13,	2
170	Chiral Carbon Quantum Dots Encapsulated in ZIF-8 Nanoparticles for Turn-On Recognition of Chiral Folic Acid and Nitrofurazone and Applications as Fluorescent Inks.	O
169	Nitrous Oxide Is No Laughing Matter: A Historical Review of Nitrous Oxide Gas-Sensing Capabilities Highlighting the Need for Further Exploration. <b>2022</b> , 7, 3598-3610	1
168	Substituent Engineering-Enabled Structural Rigidification and Performance Improvement for C2/CO2 Separation in Three Isoreticular Coordination Frameworks. <b>2022</b> , 61, 21076-21086	O
167	Biocompatible ammonium-based ionic liquids/ZIF-8 composites for CO2/CH4 and CO2/N2 separations. <b>2022</b> , e00558	0
166	Metal©rganic Frameworks as Photocatalysts for Solar-Driven Overall Water Splitting.	3
165	Targeted in vitro gene silencing of E2 and nsP1 genes of chikungunya virus by biocompatible zeolitic imidazolate framework. 10,	Ο
164	Composites Filled with Metal Organic Frameworks and Their Derivatives: Recent Developments in Flame Retardants. <b>2022</b> , 14, 5279	Ο
163	Stable and Uniform Extraframework Cations in Faujasite Zeolites. 2022, 13, 11419-11429	0
162	A new perchlorate-based hybrid ultramicroporous material with rich bare oxygen atoms for high C2H2/CO2 separation. <b>2022</b> , 108039	O
161	Metal®rganic Framework-Based Biosensing Platforms for the Sensitive Determination of Trace Elements and Heavy Metals: A Comprehensive Review.	0
160	Preferential CO2 adsorption over cadmium-based Porous Metal-organic Framework.	O
159	Morphology evolution of zeolite MFI nanosheet fragments during secondary growths. 2022, 112424	0
158	Optimizing iodine capture performance by metal-organic framework containing with bipyridine units.	1
157	Dual-Ligand Ti-MOFs with Push <b>P</b> ull Effect for Photocatalytic H2 Production.	0
156	Flexibility of Mixed Ligand Zeolitic Imidazolate Frameworks (ZIF-7 <b>B</b> ) under CO2 Pressure: An Investigation Using Positron Annihilation Lifetime Spectroscopy. <b>2022</b> , 38, 15694-15702	Ο
155	Truly combining the advantages of polymeric and zeolite membranes for gas separations. <b>2022</b> , 378, 1189-1194	2
154	Ultra-Thin Zr-MOF/PVA/Melamine Composites with Remarkable Sound Attenuation Effects.	Ο

153	Carbon Dioxide Capture in Metal-Organic Frameworks. 21, 50-56	O
152	An Amine-Functionalized Ultramicroporous Metal®rganic Framework for Postcombustion CO2 Capture.	O
151	Real-Space Imaging of the Nodellinker Coordination on the Interfaces between Self-Assembled MetallDrganic Frameworks.	1
150	MOF-Based Sorbents Used for the Removal of Hg2+ from Aqueous Solutions via a Sorption-Assisted Microfiltration. <b>2022</b> , 12, 1280	O
149	Removal of Toxic Dyes and Paraquat by a Dual-Functional Metal-Organic Framework. 2022, 7,	0
148	A Robust Molecular Porous Material for C 2 H 2 /CO 2 Separation. 2206945	O
147	Multiple Dimensional Engineering of MOF-Related Materials in Separators for Lithium-Sulfur Batteries: A Review. <b>2022</b> , 169, 120519	0
146	Role of the Number of Adsorption Sites and Adsorption Dynamics of Diffusing Particles in a Confined Liquid with Langmuir Kinetics. <b>2023</b> , 3, 1-12	O
145	Fabrication of Porous Fe-Based Metal Drganic Complex for the Enhanced Delivery of 5-Fluorouracil in In Vitro Treatment of Cancer Cells. <b>2022</b> , 7, 46674-46681	0
144	Recent Advances on Multivariate MOFs for Photocatalytic CO 2 Reduction and H 2 Evolution. 2200394	O
143	A review of research and application of polylactic acid composites.	1
142	The Properties of Microwave-Assisted Synthesis of Metal©rganic Frameworks and Their Applications. <b>2023</b> , 13, 352	2
141	Cyclodextrin Metal-Organic Framework as a Broad-Spectrum Potential Delivery Vehicle for the Gasotransmitters. <b>2023</b> , 28, 852	O
140	Fluorido-bridged robust metalBrganic frameworks for efficient C2H2/CO2 separation under moist conditions.	О
	Conditions.	
139	One-step purification of ethylene from acetylene and carbon dioxide by ultramicroporous carbons.	1
139 138		1 0
	One-step purification of ethylene from acetylene and carbon dioxide by ultramicroporous carbons.  The Dual Effect of 3D-Printed Biological Scaffolds Composed of Diverse Biomaterials in the	

135	Reaction-Diffusion Problems. 2023, 273-315	O
134	Effect of Metal Atom in Zeolitic Imidazolate Frameworks (ZIF-8 & amp; 67) for Removal of Dyes and Antibiotics from Wastewater: A Review. <b>2023</b> , 13, 155	3
133	Aryl- and Superaryl-Extended Calix[4]pyrroles: From Syntheses to Potential Applications. 2023, 381,	1
132	How Does Molecular Diameter Correlate with the Penetration Barrier of Small Gas Molecules on Porous Carbon-Based Monolayer Membranes?. <b>2023</b> , 127, 517-526	O
131	Metal Organic Polygons and Polyhedra: Instabilities and Remedies. 2023, 11, 36	O
130	Synergetic Thermodynamic/Kinetic Separation of C 3 H 8 / CH 3 F on Carbon Adsorbents for Ultrapure Fluoromethane Electronic Gas.	O
129	A new honeycomb MOF for C2H4 purification and C3H6 enrichment by separating methanol to olefin products.	О
128	Combination of Low-Polar and Polar Binding Sites in Aliphatic MOFs for the Efficient C2H6/C2H4 Separation. <b>2023</b> , 15, 3387-3394	O
127	Pore Environment Optimization of Microporous Metal Drganic Frameworks with Huddled Pyrazine Pillars for C2H2/CO2 Separation.	O
126	Trend in biodegradable porous nanomaterials for a nticancer drug delivery.	O
125	Toxic gas removal with kaolinite, metakaolinite, radiolarite, and diatomite. 2023, 314, 137707	O
124	Adsorptive removal of Uranium (VI) using zeolitic imidazole framework (ZIF)-67 from alkaline leach liquor. <b>2023</b> , 310, 123137	Ο
123	Estimation of Adsorbed Amounts in Organoclay by Machine Learning. 2023, 8, 1146-1153	0
122	A THREE-DIMENSIONAL CADMIUM MIXED LIGANDS COORDINATION POLYMER WITH CO2 ADSORPTION ABILITY. <b>2022</b> , 63, 2045-2053	O
121	Tuning Size and Properties of Zinc Ascorbate Metal-Organic Framework via Acid Modulation. <b>2023</b> , 28, 253	O
120	Revisiting Competitive Adsorption of Small Molecules in the Metal Organic Framework Ni-MOF-74. <b>2023</b> , 62, 950-956	O
119	Boosting xenon adsorption with record capacity in microporous carbon molecular sieves.	1
118	Construction of Fluorinated Propane-Trap in Metal-Organic Frameworks for Record Polymer-grade Propylene Production under High Humidity Conditions. 2207955	Ο

117	Strengthening Intraframework Interaction within Flexible MOFs Demonstrates Simultaneous Sieving Acetylene from Ethylene and Carbon Dioxide. 2207127	0
116	Highly Robust Microporous Metal-Organic Frameworks for Efficient Ethylene Purification under Dry and Humid Conditions. <b>2023</b> , 135,	O
115	Metal Drganic Framework Materials for Production and Distribution of Ammonia. 2023, 145, 1998-2012	О
114	Photocatalytic water splitting and reduction of CO2. <b>2023</b> , 111-155	Ο
113	Al-based Isoreticular Metal-Organic Frameworks with MIL-53 Topology as Effective Adsorbents in Methane Purification. <b>2023</b> , 8,	0
112	Highly Robust Microporous Metal-Organic Frameworks for Efficient Ethylene Purification under Dry and Humid Conditions. <b>2023</b> , 62,	O
111	New reticular chemistry of pillared rare-earth kgd supermolecular building layer frameworks with ethane-trapping property.	0
110	Synergistic C-TiO2/ZIF-8 type II heterojunction photocatalyst for enhanced photocatalytic degradation of methylene blue.	Ο
109	Metal Organic Frameworks as an Efficient Method for Carbon dioxide capture. <b>2023</b> , 211-230	0
108	Rigid-Flexible Hybrid Porous Molecular Crystals with Guest-Induced Reversible Crystallinity.	1
107	Rigid-Flexible Hybrid Porous Molecular Crystals with Guest-Induced Reversible Crystallinity.	0
106	MOFs-based advanced materials for gaseous adsorption: Sustainable environmental remediation. <b>2023</b> , 185-205	O
105	Programmed Polarizability Engineering in a Cyclen-Based Cubic Zr(IV) Metal Drganic Framework to Boost Xe/Kr Separation. <b>2023</b> , 145, 2679-2689	1
104	High-throughput screening of hypothetical metal-organic frameworks for thermal conductivity. <b>2023</b> , 9,	O
103	Low-concentration CO2 capture using metalorganic frameworks Eurrent status and future perspectives.	1
102	Improving curcumin bactericidal potential against multi-drug resistant bacteria via its loading in polydopamine coated zinc-based metal <b>b</b> rganic frameworks. <b>2023</b> , 30,	O
101	H2/D2 Separation Using UTSA-16@CAU-10-H@FAlOOH Composites as the Stationary Phase in Gas Chromatography via the Additive Effects of Kinetic Sieving and Chemical Affinity Quantum Sieving. <b>2023</b> , 62, 1591-1601	О
100	Porous functional metal <b>b</b> rganic frameworks (MOFs) constructed from different N-heterocyclic carboxylic ligands for gas adsorption/separation. <b>2023</b> , 25, 896-908	O

99	A functional cobalt-organic framework constructed by triphenylamine tricarboxylate: Detect nitroaromatics by fluorescence sensing and UV-shielding. <b>2023</b> , 256, 124319	0
98	A functionalized Hf(iv)Brganic framework introducing an efficient, recyclable, and size-selective heterogeneous catalyst for MPV reduction. <b>2023</b> , 47, 5347-5355	O
97	Engineering pore nanospaces by introducing aromatic effects in UiO-66 for efficient separation of light hydrocarbons.	0
96	Direct generation of polypyrrole-coated palladium nanoparticles inside a metal-organic framework for a semihydrogenation catalyst. <b>2023</b> , 13, 7464-7467	O
95	Industrialization of MOFs. <b>2023</b> , 307-325	O
94	Ecofriendly Synthesis and Characterization of Magnesium based Metal - Organic Frame Work. 203-209	O
93	Ir-doped Co-BDC MOF as efficient bifunctional catalyst for overall electrochemical water splitting.	O
92	Covalent Triazine Framework C6N6 as an Electrochemical Sensor for Hydrogen-Containing Industrial Pollutants. A DFT Study. <b>2023</b> , 13, 1121	O
91	Highly efficient separation of C1-C3 alkanes and CO2 in carbazole-based nanoporous organic polymers. <b>2023</b> , 311, 123205	0
90	Revealing acetylene separation performances of anion-pillared MOFs by combining molecular simulations and machine learning. <b>2023</b> , 464, 142731	O
89	Functional nanomaterials for selective uranium recovery from seawater: Material design, extraction properties and mechanisms. <b>2023</b> , 483, 215097	0
88	Ecyclodextrin-scaffolded crosslinked poly(ionic liquid)s for ultrafast removal of multiple pollutants: Insight into adsorption performance and mechanism. <b>2023</b> , 464, 142526	O
87	Recent progress in mixed rare earth metal-organic frameworks: From synthesis to application. <b>2023</b> , 485, 215121	0
86	Chiral metal-organic frameworks materials for racemate resolution. <b>2023</b> , 484, 215120	O
85	Construction of new multi-cage-based MOFs using flexible triangular ligands for efficient gas adsorption and separation. <b>2023</b> , 322, 123994	0
84	Expanding nonpolar pore surfaces in stable ethane-selective MOF to boost ethane/ethylene separation performance. <b>2023</b> , 315, 123642	O
83	Designed metal-organic frameworks with potential for multi-component hydrocarbon separation. <b>2023</b> , 484, 215111	O
82	Efficient removal and sensing of copper(II) ions by alkaline earth metal-based metal <b>b</b> rganic frameworks. <b>2023</b> , 322, 123936	O

81	L-Cysteine anchored Co-MOF derived cobalt-nitrogen-carbon hierarchical architecture as an efficient sensor for the electrochemical detection of catecholamine. <b>2023</b> , 190, 108748	O
80	PEG-templated synthesis of ultramicroporous n-ZIF-67 nanoparticles with high selectivity for the adsorption and uptake of CO2 over CH4 and N2. <b>2023</b> , 316, 123755	O
79	A stable metal-organic framework with oxygen site for efficiently trapping acetylene from acetylene-containing mixtures. <b>2023</b> , 316, 123751	О
78	Construction of a thermally stable ZIF-8 membrane embedded inside a porous support for H2/CO2 separation: Close interlocking between membrane grains and porous support grains. <b>2023</b> , 677, 121654	O
77	Potential of metal-organic frameworks to adsorb ethylene for fresh produce active packaging applications. <b>2023</b> , 35, 101034	0
76	Two-photon 3D-nanostructuring in metal-organic frameworks. <b>2023</b> ,	О
75	A Novel Aluminum-Based Metal-Organic Framework with Uniform Micropores for Trace BTEX Adsorption. <b>2023</b> , 135,	О
74	A Novel Aluminum-Based Metal-Organic Framework with Uniform Micropores for Trace BTEX Adsorption. <b>2023</b> , 62,	О
73	MIL-125(Ti) derived Ag doped tablet-like TiO2@carbon composites as efficient photocatalyst for degradation of rhodamine B. <b>2023</b> , 320, 123862	0
72	Progress on fundamentals of adsorption transport of metal-organic frameworks materials and sustainable applications for water harvesting and carbon capture. <b>2023</b> , 393, 136253	O
71	Exploring the Potential of a Highly Scalable Metal-Organic Framework CALF-20 for Selective Gas Adsorption at Low Pressure. <b>2023</b> , 15, 760	0
70	Boosting Xe/Kr separation by a Mixed-linker strategy in Radiation-Resistant Aluminum-Based Metal TDrganic frameworks. <b>2023</b> , 311, 123335	O
69	A rapid self-healing glassy polymer/metalBrganic-framework hybrid membrane at room temperature. <b>2023</b> , 52, 3148-3157	0
68	Toward MOF@Polymer CoreBhell Particles: Design Principles and Potential Applications. 2023, 56, 462-474	O
67	Application of covalent organic frameworks and metalBrganic frameworks nanomaterials in organic/inorganic pollutants removal from solutions through sorption-catalysis strategies. <b>2023</b> , 2,	0
66	Highly scalable acid-base resistant Cu-Prussian blue metal-organic framework for C2H2/C2H4, biogas, and flue gas separations. <b>2023</b> , 460, 141795	O
65	Applications of Organometallic Compounds for Carbon Dioxide Fixation, Reduction, Gas Adsorption, and Gas Purification. <b>2023</b> , 335-356	0
64	The Methylene Spacer Matters: The Structural and Luminescent Effects of Positional Isomerism of n-Methylpyridyltriazole Carboxylate Semi-Rigid Ligands in the Structure of Zn(II) Based Coordination Polymers. <b>2023</b> , 15, 888	O

63	Carbon Dioxide (CO2) Gas Storage and Utilization. 2023, 209-248	O
62	CD-MOF-1 for CO2 Uptake: Remote and Hybrid Green Chemistry Synthesis of a Framework Material with Environmentally Conscious Applications. <b>2023</b> , 100, 1289-1295	O
61	Electrochemical Conversion of Cu Nanowire Arrays into Metal-Organic Frameworks HKUST-1. <b>2023</b> , 170, 022506	O
60	Effects of Structure and Composition of Adsorbents on Competitive Adsorption of Gaseous Emissions: Experiment and Modeling. <b>2023</b> , 13, 724	O
59	Advances in metal-organic frameworks for efficient separation and purification of natural gas. <b>2023</b> , 42, 100034	О
58	Metal-organic frameworks (MOF)-based sensors for detection of toxic gases: A review of current status and future prospects. <b>2023</b> , 299, 127512	1
57	Metal-Organic Frameworks for C6 Alkane Separation.	0
56	Metal-Organic Frameworks for C6 Alkane Separation.	Ο
55	Nanoporous semi-cycloaliphatic polyaminal networks for capture of SO2, NH3, and I2. <b>2023</b> , 11, 6329-6335	0
54	Granular nitrogen-doped carbons with ultra-high C2H2/CO2 adsorption selectivity for C2H2 purification. <b>2023</b> , 461, 141980	O
53	Chromium and cobalt bimetallic MOF material as an effective and stable catalyst for the decomposition of cyclohexyl hydrogen peroxide. <b>2023</b> , 352, 112497	O
52	Topologically Porous Heterostructures for Photo/Photothermal Catalysis of Clean Energy Conversion. <b>2023</b> , 7,	Ο
51	Design of Olefin-Phobic Zeolites for Efficient Ethane and Ethylene Separation. 2023, 35, 2078-2087	O
50	Engineering Pore Environments of Sulfate-Pillared Metal-Organic Framework for Efficient C 2 H 2 /CO 2 Separation with Record Selectivity.	O
49	Highly Selective Separation of C2H2/CO2 and C2H2/C2H4 in an N-Rich Cage-Based Microporous Metal-Organic Framework. <b>2023</b> , 2023, 1-9	О
48	Application of isotherms models and error functions in activated carbon CO2 sorption processes. <b>2023</b> , 354, 112513	O
47	Boosting Catalytic Performance of MOF-808(Zr) by Direct Generation of Rich Defective Zr Nodes via a Solvent-Free Approach. <b>2023</b> , 62, 4248-4259	О
46	Localization of nuclear wave functions of lithium in [Li+@C60]PF6[Imolecular insights into two-site disorderBrder transition. <b>2023</b> , 25, 8446-8462	O

45	MOFs for desulfurization of fuel oil: Recent advances and future insights.	O
44	An ultramicroporous pillar-layer metal-organic framework for high sieving separation of ethylene from ethane. <b>2023</b> , 354, 112532	O
43	Switching of Guest Selectivity for the Inclusion of Regioisomers of Monosubstituted Phenols with Crystals of p-tert-Butylcalix[4]arene.	O
42	High selectivity and response H2 sensors based on ZnO@ZIF-71@Ag nanorod arrays. 2023,	O
41	Machine learning accelerates the investigation of targeted MOFs: Performance prediction, rational design and intelligent synthesis. <b>2023</b> , 49, 101802	О
40	Highly Efficient Separation of CH4/C2H6/C3H8 from Natural Gas on a Novel Copper-Based Metal Drganic Framework. <b>2023</b> , 62, 5252-5261	1
39	Impact of Ligands on the Properties of Lanthanide Metal-Organic Frameworks. 2023, 649,	0
38	Palladium Schiff base complex-modified Cu(BDC-NH2) metalörganic frameworks for CN coupling. <b>2023</b> , 13, 8114-8129	O
37	Applications of Polyacetylene Derivatives in Gas and Liquid Separation. 2023, 28, 2748	O
36	A Microporous Metal-Organic Framework with Unique Aromatic Pore Surfaces for High Performance C 2 H 6 /C 2 H 4 Separation.	O
35	A Microporous Metal-Organic Framework with Unique Aromatic Pore Surfaces for High Performance C 2 H 6 /C 2 H 4 Separation.	0
34	Erasable Photopatterning of Stilbene-Based Metal-Organic Framework Films. 2201231	O
33	The introduction of a base component to porous organic salts and their CO2 storage capability. <b>2023</b> , 25, 2321-2325	0
32	Rapid Design of Top-Performing Metal-Organic Frameworks with Qualitative Representations of Building Blocks.	O
31	Methods for Detecting Picric Acid∆ Review of Recent Progress. 2023, 13, 3991	O
30	Eco-Friendly Synthesis of TiO2/ZIF-8 Composites: Characterization and Application for the Removal of Imidacloprid from Wastewater. <b>2023</b> , 11, 963	O
29	Cd(II) complexes derived from thiazoline, hydrazide and carbodithioate ligands: synthesis, crystal structures and electrochemical sensing of uric acid. <b>2023</b> , 37,	0
28	Fundamentals of MOF Mechanics & Structure Mechanical Property Relationships. 2023, 1-64	O

27	Cage-Like Sodalite-Type Porous Organic Salts Enabling Luminescent Molecule's Incorporation and Room-temperature Phosphorescence Induction in Air.	O
26	Prospects of low-temperature solid sorbents in industrial COL apture: A focus on biomass residues as precursor material. <b>2023</b> , 13, 245-284	O
25	CO and CO2 adsorption mechanism in Fe(pz)[Pt(CN)4] probed by neutron scattering and density-functional theory calculations.	0
24	Permanent Porosity in the Room-Temperature Magnet and Magnonic Material V(TCNE)2.	O
23	Pyrene based Schiff base ligand: A highly selective fluorescence chemosensor for the detection of Cu2+ ions. <b>2023</b> , 100, 100985	O
22	Reticular Chemistry in Pore Engineering of a Y-Based Metal <b>©</b> rganic Framework for Xenon/Krypton Separation. <b>2023</b> , 15, 18229-18235	0
21	ZIF-8 thin films by a vapor-phase process: limits to growth. <b>2023</b> , 15, 7115-7125	Ο
20	Epitaxial Single-Domain Cu-BTC Metal®rganic Framework Thin Films and Foils by Electrochemical Conversion of Cuprous Oxide. <b>2023</b> , 15, 18440-18449	O
19	Pore-in-Pore Engineering in a Covalent Organic Framework Membrane for Gas Separation.	0
18	A Bipyridyl Covalent Organic Framework with Coordinated Cu(I) for Membrane C 3 H 6 /C 3 H 8 Separation.	O
17	Composite Eu-MOF@CQDs Bff & amp; on Itatiometric luminescent probe for highly sensitive chiral detection of L-lysine and 2-methoxybenzaldehyde. <b>2023</b> , 108426	O
16	Assessment of Adsorbate Backbonding in Copper(I) Metal Organic Frameworks via Multinuclear NMR Spectroscopy and Density Functional Theory Calculations. <b>2023</b> , 127, 7513-7519	O
15	Covalent organic framework atropisomers with multiple gas-triggered structural flexibilities.	0
14	Quinoid-Based Three-Dimensional Metal Organic Framework Fe2(dhbq)3: Porosity, Electrical Conductivity, and Solid-State Redox Properties.	Ο
13	MOF based CO2 capture: Adsorption and membrane separation. <b>2023</b> , 152, 110722	0
12	Fabrication of Polyelectrolyte Sheets of Unimolecular Thickness via MOF-Templated Polymerization.	O
11	Direct Synthesis of Dimethyl Carbonate from Carbon Dioxide and Methanol over Ce-BTC-derived CeO2. <b>2023</b> , 118760	O
10	Recent Progress in the Application of Metal Organic Frameworks in Surface-Enhanced Raman Scattering Detection. <b>2023</b> , 13, 479	0

9	Effective Combination of the Metal Centers in MOF-Based Materials toward Sustainable Oxidation Catalysts. <b>2023</b> , 16, 3133	0
8	Chemically routed interpore molecular diffusion in metal-organic framework thin films. 2023, 14,	O
7	A stable N-containing heterocyclic carboxylic acid ligand Co-MOF for photoelectric performance and anionic dyes adsorption. <b>2023</b> , 104878	Ο
6	Carbon monoxide separation: past, present and future.	O
5	Fluorescent metal-organic frameworks for analytical applications. 2023, 339-374	Ο
4	Heterogenization of molybdenum complexes: techniques and catalytic applications. 2023, 119227	Ο
3	Ortho Effects of Tricarboxylate Linkers in Regulating Topologies of Rare-Earth Metal®rganic Frameworks. <b>2023</b> , 3, 1337-1347	О
2	Synthetic, spectral, structural and catalytic activities of 3-D metal format/acetate framework materials for CO2 conversion.	Ο
1	Delaminated or Multi-layer Ti3C2TX-MXene-incorporated polydimethylsiloxane mixed matrix membrane for enhancing CO2 /N2 separation. <b>2023</b> , 100410	0