

A New Zirconium Inorganic Building Brick Forming Me
Exceptional Stability

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Citation Report

#	ARTICLE	IF	CITATIONS
57	Guest-Driven Luminescence: Lanthanide-Based Host-Guest Systems with Bimodal Emissive Properties Based on a Guest-Driven Approach. <i>Chemistry - A European Journal</i> , 2009, 15, 10432-10445.	1.7	71
60	Giant Pores in a Chromium 2,6-Naphthalenedicarboxylate Open-Frame Structure with MIL-101 Topology. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3791-3794.	7.2	189
61	Metal-Organic Frameworks: Opportunities for Catalysis. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7502-7513.	7.2	1,732
62	[Al ₄ (OH) ₂ (OCH ₃) ₄ (H ₂ N)C ₃] _n ·xH ₂ O: A 12-Connected Porous Metal-Organic Framework with an Unprecedented Aluminum-Containing Brick. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5163-5166.	7.2	260
63	The Effect of Pressure on ZIF-8: Increasing Pore Size with Pressure and the Formation of a High-Pressure Phase at 1.47 GPa. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7087-7089.	7.2	444
64	Two-Dimensional Networks of Lanthanide Cubane-Shaped Dumbbells. <i>Inorganic Chemistry</i> , 2009, 48, 11748-11754.	1.9	67
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67	Thermally Resolved in Situ Dynamic Light Scattering Studies of Zirconium(IV) Complex Formation. <i>Crystal Growth and Design</i> , 2009, 9, 5213-5219.	1.4	25
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69	Highly Porous and Robust 4,8-Connected Metal-Organic Frameworks for Hydrogen Storage. <i>Journal of the American Chemical Society</i> , 2009, 131, 4610-4612.	6.6	185
70	The application of metal-organic frameworks in catalysis (Review). <i>Petroleum Chemistry</i> , 2010, 50, 167-180.	0.4	108
71	Two Thermostable Three-Dimensional Homochiral Metal-Organic Polymers with Quartz Topology. <i>Crystal Growth and Design</i> , 2010, 10, 1307-1311.	1.4	78
72	Cubic Octanuclear Ni(II) Clusters in Highly Porous Polypyrazolyl-Based Materials. <i>Journal of the American Chemical Society</i> , 2010, 132, 7902-7904.	6.6	140
73	Designing Heterogeneous Catalysts by Incorporating Enzyme-Like Functionalities into MOFs. <i>Topics in Catalysis</i> , 2010, 53, 859-868.	1.3	73
74	Structural Investigation of Coordination Polymers Constructed from a Conformational Bis-triazole Ligand and Shaped Bridging Carboxylate Anions: Hydrothermal Syntheses, Crystal Structures, and Property Studies. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 5545-5555.	1.0	46
75	EXAFS as Powerful Analytical Tool for the Investigation of Organic-Inorganic Hybrid Materials. <i>Advanced Functional Materials</i> , 2010, 20, 4026-4047.	7.8	33
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90	Probing the surfaces of heterogeneous catalysts by in situ IR spectroscopy. <i>Chemical Society Reviews</i> , 2010, 39, 4951.	18.7	407
91	Isorecticular synthesis and modification of frameworks with the UiO-66 topology. <i>Chemical Communications</i> , 2010, 46, 7700.	2.2	707
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1502	Pd nanoparticles encaged within amine-functionalized metal-organic frameworks: Catalytic activity and reaction mechanism in the hydrogenation of 2,3,5-trimethylbenzoquinone. <i>Chemical Engineering Journal</i> , 2017, 328, 977-987.	6.6	37
1503	Recent progress of fillers in mixed matrix membranes for CO ₂ separation: A review. <i>Separation and Purification Technology</i> , 2017, 188, 431-450.	3.9	340
1504	A novel fabricated material with divergent chemical handles based on UiO-66 and used for targeted photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6227-6232.	2.9	27
1505	Explicit treatment of hydrogen bonds in the universal force field: Validation and application for metal-organic frameworks, hydrates, and host-guest complexes. <i>Journal of Chemical Physics</i> , 2017, 147, 161705.	1.2	10
1506	Nanoparticles@nanoscale metal-organic framework composites as highly efficient heterogeneous catalysts for size- and shape-selective reactions. <i>Nano Research</i> , 2017, 10, 3826-3835.	5.8	76
1507	Synthesis of Manganese ZIF-8 from [Mn(BH ₄) ₂ ·3THF]·NaBH ₄ . <i>Inorganic Chemistry</i> , 2017, 56, 8744-8747.	1.9	40
1508	Environmentally benign dry-gel conversions of Zr-based UiO metal-organic frameworks with high yield and the possibility of solvent re-use. <i>Dalton Transactions</i> , 2017, 46, 9895-9900.	1.6	36
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1514	Interfacial growth of a metal-organic framework (UiO-66) on functionalized graphene oxide (GO) as a suitable seawater adsorbent for extraction of uranium(^{VI}). <i>Journal of Materials Chemistry A</i> , 2017, 5, 17933-17942.	5.2	253
1515	A nanoscale Zr-based fluorescent metal-organic framework for selective and sensitive detection of hydrogen sulfide. <i>Journal of Solid State Chemistry</i> , 2017, 255, 97-101.	1.4	38
1516	Through-space Förster-type energy transfer in isostructural zirconium and hafnium-based metal-organic layers. <i>Chemical Communications</i> , 2017, 53, 9356-9359.	2.2	21
1517	Probing nanoscale functionalities of metal-organic framework nanocrystals. <i>Nanoscale</i> , 2017, 9, 12163-12169.	2.8	31

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1519	Pre-synthesized secondary building units in the rational synthesis of porous coordination polymers. <i>Mendeleev Communications</i> , 2017, 27, 321-331.	0.6	43
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1523	Improved strategies for DNP-enhanced 2D 1H-X heteronuclear correlation spectroscopy of surfaces. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 38-44.	1.5	27
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1526	Modulator Effect in UiO-66-NDC (1,4-Naphthalenedicarboxylic Acid) Synthesis and Comparison with UiO-67-NDC Isorecticular Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2017, 17, 5422-5431.	1.4	55
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1529	Ferrocene particles incorporated into Zr-based metal-organic frameworks for selective phenol hydroxylation to dihydroxybenzenes. <i>RSC Advances</i> , 2017, 7, 38691-38698.	1.7	34
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1531	Rapid and Efficient Removal of Carbamazepine from Water by UiO-67. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 15122-15130.	1.8	51
1532	MOF derived mesoporous K-ZrO ₂ with enhanced basic catalytic performance for Knoevenagel condensations. <i>RSC Advances</i> , 2017, 7, 55920-55926.	1.7	13
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1538	Structural Stability of <i>N</i> -Alkyl-Functionalized Titanium Metal-Organic Frameworks in Aqueous and Humid Environments. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44529-44533.	4.0	33
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1541	Systematic Engineering of Single Substitution in Zirconium Metal-Organic Frameworks toward High-Performance Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 18590-18597.	6.6	102
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1569	Synthesis of highly stable UiO-66-NH ₂ membranes with high ions rejection for seawater desalination. <i>Microporous and Mesoporous Materials</i> , 2017, 252, 207-213.	2.2	63
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1578	Introduction of Thiourea into Metal-Organic Frameworks by Immersion Technique and Their Phase Transition Characteristics. <i>Chemistry Letters</i> , 2017, 46, 115-117.	0.7	2
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1659	Efficient degradation of atrazine by BiOBr/UiO-66 composite photocatalyst under visible light irradiation: Environmental factors, mechanisms and degradation pathways. <i>Chemosphere</i> , 2018, 203, 497-505.	4.2	118
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1664	Phosphinic Acid Based Linkers: Building Blocks in Metal-Organic Framework Chemistry. <i>Angewandte Chemie</i> , 2018, 130, 5110-5113.	1.6	14
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1924	SuFEx in Metal-Organic Frameworks: Versatile Postsynthetic Modification Tool. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33785-33789.	4.0	21
1925	A semiconducting metal-chalcogenide-organic framework with square-planar tetra-coordinated sulfur. <i>Chemical Communications</i> , 2018, 54, 11272-11275.	2.2	17
1926	From fundamentals to applications: a toolbox for robust and multifunctional MOF materials. <i>Chemical Society Reviews</i> , 2018, 47, 8611-8638.	18.7	994
1927	Facile preparation of UiO-66 /PAM monoliths <i>via</i> CO ₂ -in-water HIPEs and their applications. <i>RSC Advances</i> , 2018, 8, 32358-32367.	1.7	31
1928	High-Connectivity Approach to a Hydrolytically Stable Metal-Organic Framework for CO ₂ Capture from Flue Gas. <i>Chemistry of Materials</i> , 2018, 30, 6614-6618.	3.2	19
1929	New synthetic strategies to prepare metal-organic frameworks. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2693-2708.	3.0	235
1930	Nanoscale Mixed-Component Metal-Organic Frameworks with Photosensitizer Spatial-Arrangement-Dependent Photochemistry for Multimodal-Imaging-Guided Photothermal Therapy. <i>Chemistry of Materials</i> , 2018, 30, 6867-6876.	3.2	122
1931	Smoothing the single-crystal to single-crystal conversions of a two-dimensional metal-organic framework <i>via</i> the hetero-metal doping of the linear trimetallic secondary building unit. <i>Dalton Transactions</i> , 2018, 47, 13722-13729.	1.6	16
1932	Metal Acetylacetonates as a Source of Metals for Aqueous Synthesis of Metal-Organic Frameworks. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14554-14560.	3.2	41
1933	Improving the capability of UiO-66 for Cr(VI) adsorption from aqueous solutions by introducing isonicotinate N-oxide as the functional group. <i>Dalton Transactions</i> , 2018, 47, 14549-14555.	1.6	45
1934	Synthesis of the novel MOF <i>hpc</i> UiO-66 employing ionic liquids as a linker precursor. <i>Dalton Transactions</i> , 2018, 47, 14426-14430.	1.6	39
1935	Comparison of Fabrication Methods of Metal-Organic Framework Optical Thin Films. <i>Nanomaterials</i> , 2018, 8, 676.	1.9	33
1936	A Novel Fluorescent Biosensor for Adenosine Triphosphate Detection Based on a Metal-Organic Framework Coating Polydopamine Layer. <i>Materials</i> , 2018, 11, 1616.	1.3	42
1937	Bromomethylated poly(phenylene oxide) (BPPO)-assisted fabrication of UiO-66-NH ₂ /BPPO/polyethersulfone mixed matrix membrane for enhanced gas separation. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46759.	1.3	19
1938	Theoretical and experimental investigations of ¹²⁹ Xe NMR chemical shift isotherms in metal-organic frameworks. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25039-25043.	1.3	8
1939	Catalytic conversion of glucose to 5-hydroxymethylfurfural using zirconium-containing metal-organic frameworks using microwave heating. <i>RSC Advances</i> , 2018, 8, 31618-31627.	1.7	49
1940	High Catalytic Activity of C ₆₀ Pd _n Encapsulated in Metal-Organic Framework UiO-67, for Tandem Hydrogenation Reaction. <i>Chemistry - A European Journal</i> , 2018, 24, 19141-19145.	1.7	14

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1941	Self-assembled MOF membranes with underwater superoleophobicity for oil/water separation. <i>Journal of Membrane Science</i> , 2018, 566, 268-277.	4.1	143
1942	A room-temperature growth of gold nanoparticles on MOF-199 and its transformation into the [Cu ₂ (OH)(BTC)(H ₂ O)] phase. <i>Polyhedron</i> , 2018, 154, 357-363.	1.0	13
1943	Pore-filling contamination in metal-organic frameworks. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23616-23624.	1.3	4
1944	Micropatterned Ultrathin MOF Membranes with Enhanced Molecular Sieving Property. <i>Angewandte Chemie</i> , 2018, 130, 14088-14092.	1.6	9
1945	Micropatterned Ultrathin MOF Membranes with Enhanced Molecular Sieving Property. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13892-13896.	7.2	44
1946	Tuning the Mechanical Response of Metal-Organic Frameworks by Defect Engineering. <i>Journal of the American Chemical Society</i> , 2018, 140, 11581-11584.	6.6	82
1947	Fast and Sustained Degradation of Chemical Warfare Agent Simulants Using Flexible Self-Supported Metal-Organic Framework Filters. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20396-20403.	4.0	65
1948	Cerium Metal-Organic Framework for Photocatalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 7904-7912.	6.6	313
1949	Highly stable and porous porphyrin-based zirconium and hafnium phosphonates - electron crystallography as an important tool for structure elucidation. <i>Chemical Science</i> , 2018, 9, 5467-5478.	3.7	70
1950	A DFT study of RuO ₄ interactions with porous materials: metal-organic frameworks (MOFs) and zeolites. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16770-16776.	1.3	22
1951	Zirconium-based metal organic frameworks loaded on polyurethane foam membrane for simultaneous removal of dyes with different charges. <i>Journal of Colloid and Interface Science</i> , 2018, 527, 267-279.	5.0	94
1952	Lipophilic Polyelectrolyte Gels and Crystal Crosslinking, New Methods for Supramolecular Control of Swelling and Collapsing of Polymer Gels. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1282-1292.	2.0	17
1953	Thiol-Functionalized Zr-Based Metal-Organic Framework for Capture of Hg(II) through a Proton Exchange Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8494-8502.	3.2	140
1954	Synthesis, structure and characterization of a new highly porous zirconium-based metal-organic frameworks. <i>Inorganica Chimica Acta</i> , 2018, 480, 173-176.	1.2	2
1955	Single-Crystalline UiO-67-Type Porous Network Stable to Boiling Water, Solvent Loss, and Oxidation. <i>Inorganic Chemistry</i> , 2018, 57, 6198-6201.	1.9	21
1956	Elucidation of the Formation Mechanism of Metal-Organic Frameworks via in-Situ Raman and FTIR Spectroscopy under Solvothermal Conditions. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12267-12278.	1.5	43
1957	Post-synthetic exchange (PSE) of UiO-67 frameworks with Ru/Rh half-sandwich units for visible-light-driven H ₂ evolution and CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11337-11345.	5.2	86
1958	Pd/UiO-66(Hf): A highly efficient heterogeneous catalyst for the hydrogenation of 2,3,5-trimethylbenzoquinone. <i>Catalysis Communications</i> , 2018, 113, 23-26.	1.6	20

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1959	Metal-Organic Frameworks Based on Multicenter- μ_8 (M=Mn, Zn) Clusters with Cubic Aromaticity. <i>Chemistry - A European Journal</i> , 2018, 24, 16702-16707.	1.7	14
1960	Green and rapid mechanosynthesis of high-porosity NU- and UiO-type metal-organic frameworks. <i>Chemical Communications</i> , 2018, 54, 6999-7002.	2.2	63
1961	A defective MOF architecture threaded by interlaced carbon nanotubes for high-cycling lithium-sulfur batteries. <i>RSC Advances</i> , 2018, 8, 18604-18612.	1.7	49
1962	The Influence of Chemical Modification on Linker Rotational Dynamics in Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8678-8681.	7.2	33
1963	The Influence of Chemical Modification on Linker Rotational Dynamics in Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2018, 130, 8814-8817.	1.6	11
1964	Characterization of Undercoordinated Zr Defect Sites in UiO-66 with Vibrational Spectroscopy of Adsorbed CO. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14582-14589.	1.5	52
1965	Preparation, characterizations and performance evaluations of alumina hollow fiber membrane incorporated with UiO-66 particles for humic acid removal. <i>Journal of Membrane Science</i> , 2018, 563, 162-174.	4.1	47
1966	Adhesive bacterial amyloid nanofiber-mediated growth of metal-organic frameworks on diverse polymeric substrates. <i>Chemical Science</i> , 2018, 9, 5672-5678.	3.7	18
1967	Stable pyrazolate-based metal-organic frameworks for drug delivery. <i>Inorganic Chemistry Communication</i> , 2018, 94, 21-26.	1.8	12
1968	Synthesis and structural characterization of the first neptunium based metal-organic frameworks incorporating {Np ₆ O ₈ } hexanuclear clusters. <i>Chemical Communications</i> , 2018, 54, 6979-6982.	2.2	48
1969	Zr-MOFs based on Keggin-type polyoxometalates for photocatalytic hydrogen production. <i>Journal of Materials Science</i> , 2018, 53, 12016-12029.	1.7	72
1970	Photocatalytic water splitting on metal oxide-based semiconductor photocatalysts. , 2018, , 355-399.		12
1971	A regulatable oxidative valorization of furfural with aliphatic alcohols catalyzed by functionalized metal-organic frameworks-supported Au nanoparticles. <i>Journal of Catalysis</i> , 2018, 364, 1-13.	3.1	40
1972	Tuning the Photoinduced Electron Transfer in a Zr-MOF: Toward Solid-State Fluorescent Molecular Switch and Turn-On Sensor. <i>Advanced Materials</i> , 2018, 30, e1802329.	11.1	120
1973	Incorporation of Functional Groups Expands the Applications of UiO-67 for Adsorption, Catalysis and Thiols Detection. <i>ChemistrySelect</i> , 2018, 3, 7066-7080.	0.7	12
1974	Investigation of a new co-polyimide, 6FDA-bisP and its ZIF-8 mixed matrix membranes for CO ₂ /CH ₄ separation. <i>Separation and Purification Technology</i> , 2018, 207, 523-534.	3.9	48
1975	l-proline modulated zirconium metal organic frameworks: Simple chiral catalysts for the aldol addition reaction. <i>Journal of Catalysis</i> , 2018, 365, 36-42.	3.1	65
1976	Simple Fabrication Method for Mixed Matrix Membranes with in Situ MOF Growth for Gas Separation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24784-24790.	4.0	77

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1977	Allenylphosphine Oxides as Starting Materials for the Synthesis of Conjugated Enynes: Boosting the Catalytic Performance by MOF Encapsulated Palladium Nanoparticles. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 3518-3525.	2.1	9
1978	Pore Wall-Functionalized Luminescent Cd(II) Framework for Selective CO ₂ Adsorption, Highly Specific 2,4,6-Trinitrophenol Detection, and Colorimetric Sensing of Cu ²⁺ Ions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10295-10306.	3.2	102
1979	Anodic dissolution growth of metal-organic framework HKUST-1 monitored <i>via in situ</i> electrochemical atomic force microscopy. <i>CrystEngComm</i> , 2018, 20, 4421-4427.	1.3	15
1980	Realizing the Potential of Acetylenedicarboxylate by Functionalization to Halofumarate in Zr ^{IV} Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2018, 24, 14048-14053.	1.7	24
1981	4.22 Metal-Organic Framework Based Composites. , 2018, , 525-553.		1
1982	Impact of Disordered Guest-Framework Interactions on the Crystallography of Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 8958-8964.	6.6	54
1983	Direct water-based synthesis and characterization of new Zr/Hf-MOFs with dodecanuclear clusters as IBUs. <i>CrystEngComm</i> , 2018, 20, 5108-5111.	1.3	29
1984	Delamination and Photochemical Modification of a Novel Two-Dimensional Zr-Based Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2018, 24, 12848-12855.	1.7	12
1985	Monte Carlo Simulations to Examine the Role of Pore Structure on Ambient Air Separation in Metal-Organic Frameworks. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 9240-9253.	1.8	14
1986	Recent advances in hydrophilic modification and performance of polyethersulfone (PES) membrane <i>via</i> additive blending. <i>RSC Advances</i> , 2018, 8, 22710-22728.	1.7	97
1987	Catalytic properties of pristine and defect-engineered Zr-MOF-808 metal organic frameworks. <i>Catalysis Science and Technology</i> , 2018, 8, 3610-3616.	2.1	81
1988	Make room for iodine: systematic pore tuning of multivariate metal-organic frameworks for the catalytic oxidation of hydroquinones using hypervalent iodine. <i>Catalysis Science and Technology</i> , 2018, 8, 4349-4357.	2.1	20
1989	Coordination polymer-based supercapacitors with matched energy levels: enhanced capacity under visible light illumination in the presence of methanol. <i>Dalton Transactions</i> , 2018, 47, 11146-11157.	1.6	1
1990	Two-Dimensional Metal-Organic Framework Nanosheets: A Rapidly Growing Class of Versatile Nanomaterials for Gas Separation, MALDI-TOF Matrix and Biomimetic Applications. <i>Chemistry - A European Journal</i> , 2018, 24, 15131-15142.	1.7	65
1991	Hydrothermal synthesis of NH ₂ -UiO-66 and its application for adsorptive removal of dye. <i>Advanced Powder Technology</i> , 2018, 29, 2626-2632.	2.0	102
1992	Electrostatic Purification of Mixed-Phase Metal-Organic Framework Nanoparticles. <i>Chemistry of Materials</i> , 2018, 30, 4877-4881.	3.2	10
1993	Harnessing Structural Dynamics in a 2D Manganese-Benzoquinoid Framework To Dramatically Accelerate Metal Transport in Diffusion-Limited Metal Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2018, 140, 11444-11453.	6.6	31
1994	Zigzag Ligands for Transversal Design in Reticular Chemistry: Unveiling New Structural Opportunities for Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 10153-10157.	6.6	60

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1995	Computational structure determination of novel metal-organic frameworks. <i>Chemical Communications</i> , 2018, 54, 10812-10815.	2.2	27
1996	A novel sensitive fluorescent probe of S^{2-} and Fe^{3+} based on covalent post-functionalization of a zirconium metal-organic framework. <i>Dalton Transactions</i> , 2018, 47, 11586-11592.	1.6	63
1997	Magnetic MOF for AO7 Removal and Targeted Delivery. <i>Crystals</i> , 2018, 8, 250.	1.0	23
1998	Performance of Mixed Matrix Membranes Containing Porous Two-Dimensional (2D) and Three-Dimensional (3D) Fillers for CO ₂ Separation: A Review. <i>Membranes</i> , 2018, 8, 50.	1.4	66
1999	Beyond pristine metal-organic frameworks: Preparation and application of nanostructured, nanosized, and analogous MOFs. <i>Coordination Chemistry Reviews</i> , 2018, 376, 20-45.	9.5	121
2000	Zirconium-Formate Macrocycles and Supercage: Molecular Packing versus MOF-like Network for Water Vapor Sorption. <i>Journal of the American Chemical Society</i> , 2018, 140, 10915-10920.	6.6	33
2001	Pd-Ni BMNPs Encapsulated in UiO-66 as an Efficient Catalyst for the Activation of C-O Bonds. <i>ChemCatChem</i> , 2018, 10, 4258-4263.	1.8	7
2002	Cu- and Zr-based metal organic frameworks and their composites with graphene oxide for capture of acid gases at ambient temperature. <i>Journal of Solid State Chemistry</i> , 2018, 266, 233-243.	1.4	64
2003	Excited-State Electronic Properties in Zr-Based Metal-Organic Frameworks as a Function of a Topological Network. <i>Journal of the American Chemical Society</i> , 2018, 140, 10488-10496.	6.6	107
2004	Advanced Porous Materials in Mixed Matrix Membranes. <i>Advanced Materials</i> , 2018, 30, e1802401.	11.1	229
2005	Anion Exchange and Catalytic Functionalization of the Zirconium-Based Metal-Organic Framework DUT-67. <i>Crystal Growth and Design</i> , 2018, 18, 5492-5500.	1.4	29
2006	Photonic functional metal-organic frameworks. <i>Chemical Society Reviews</i> , 2018, 47, 5740-5785.	18.7	528
2007	New 2D and 3D Coordination Polymers by Dehydration of $[M_2L_2(BDC)(H_2O)_4]$ ($M = Zn, Co, Ni$ and Ti) <i>Over</i> <i>10</i> <i>Tf</i> <i>50</i> <i>257</i> <i>Td</i> (<i>Allgemeine Chemie</i> , 2018, 644, 1423-1430.		
2008	Generating and optimizing the catalytic activity in UiO-66 for aerobic oxidation of alkenes by post-synthetic exchange Ti atoms combined with ligand substitution. <i>Journal of Catalysis</i> , 2018, 365, 450-463.	3.1	29
2009	Water stable metal-organic framework as adsorbent from aqueous solution: A mini-review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 176-183.	2.7	60
2010	Decoration of Cotton Fibers with a Water-Stable Metal-Organic Framework (UiO-66) for the Decomposition and Enhanced Adsorption of Micropollutants in Water. <i>Bioengineering</i> , 2018, 5, 14.	1.6	54
2011	Solvent Dependent Disorder in $M_2(BzOip)_2(H_2O)_2 \cdot nH_2O$ (M = Co or Zn). <i>Crystals</i> , 2018, 8, 6.	1.0	1
2012	Zr-based metal-organic framework with dual Brønsted acid-base functions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 383, 012011.	0.3	2

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2013	Immobilization of a Full Photosystem in the Large-Pore MIL-101 Metal-Organic Framework for CO ₂ reduction. ChemSusChem, 2018, 11, 3315-3322.	3.6	57
2014	Efficient CO ₂ separation in mixed matrix membranes with a hierarchical pore carbon nanostructure. Journal of the Chinese Chemical Society, 2018, 65, 1347-1355.	0.8	9
2015	UiO-66-NH ₂ /GO Composite: Synthesis, Characterization and CO ₂ Adsorption Performance. Materials, 2018, 11, 589.	1.3	105
2016	The Carbonation of Wollastonite: A Model Reaction to Test Natural and Biomimetic Catalysts for Enhanced CO ₂ Sequestration. Minerals (Basel, Switzerland), 2018, 8, 209.	0.8	34
2017	Co ₂ and Co ₃ Mixed Cluster Secondary Building Unit Approach toward a Three-Dimensional Metal-Organic Framework with Permanent Porosity. Molecules, 2018, 23, 755.	1.7	19
2018	Metal-Organic Layers Catalyze Photoreactions without Pore Size and Diffusion Limitations. Chemistry - A European Journal, 2018, 24, 15772-15776.	1.7	25
2019	Post-Synthetic Ligand Exchange in Zirconium-Based Metal-Organic Frameworks: Beware of The Defects!. Angewandte Chemie - International Edition, 2018, 57, 11706-11710.	7.2	107
2020	A Biocompatible Zinc(II)-based Metal-Organic Framework for pH Responsive Drug Delivery and Anti-Lung Cancer Activity. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 877-882.	0.6	9
2021	Metal-Organic Frameworks as Efficient Oral Detoxifying Agents. Journal of the American Chemical Society, 2018, 140, 9581-9586.	6.6	74
2022	Suspension Processing of Microporous Metal-Organic Frameworks: A Scalable Route to High-Quality Adsorbents. IScience, 2018, 5, 30-37.	1.9	18
2023	Coordination polymers based on zinc(ii) and manganese(ii) with 1,4-cyclohexanedicarboxylic acid. Russian Chemical Bulletin, 2018, 67, 490-496.	0.4	23
2025	A CuO-functionalized NMOF probe with a tunable excitation wavelength for selective detection and imaging of H ₂ S in living cells. Nanoscale, 2018, 10, 15793-15798.	2.8	18
2026	Understanding the CO Oxidation on Pt Nanoparticles Supported on MOFs by <i>Operando</i> XPS. ChemCatChem, 2018, 10, 4238-4242.	1.8	35
2027	Polymeric Solids Based on [Re ₁₂ CS ₁₄ (¹ / ₄ -O) ₃ (OH) ₆] ⁶⁺ Cluster and Alkaline Earth Metal Cations. Journal of Cluster Science, 2018, 29, 617-624.	1.7	2
2028	Zr(IV)-Based Metal-Organic Framework with T-Shaped Ligand: Unique Structure, High Stability, Selective Detection, and Rapid Adsorption of Cr ₂ O ₇ ²⁻ in Water. ACS Applied Materials & Interfaces, 2018, 10, 16650-16659.	4.0	219
2029	UiO-66-Coated Mesh Membrane with Underwater Superoleophobicity for High-Efficiency Oil-Water Separation. ACS Applied Materials & Interfaces, 2018, 10, 17301-17308.	4.0	120
2030	Synthesis chemistry of metal-organic frameworks for CO ₂ capture and conversion for sustainable energy future. Renewable and Sustainable Energy Reviews, 2018, 92, 570-607.	8.2	89
2031	Catalytic chemoselective functionalization of methane in a metal-organic framework. Nature Catalysis, 2018, 1, 356-362.	16.1	153

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2033	MOF-801 as a promising material for adsorption cooling: Equilibrium and dynamics of water adsorption. Energy Conversion and Management, 2018, 174, 356-363.	4.4	121
2034	Direct synthesis of dimethyl carbonate from CO ₂ and methanol over trifluoroacetic acid modulated Uio-66. Journal of CO ₂ Utilization, 2018, 27, 272-282.	3.3	55
2035	Zn/Co ZIF family: MW synthesis, characterization and stability upon halogen sorption. Polyhedron, 2018, 154, 457-464.	1.0	44
2036	Hydrolytic stability in hemilabile metal-organic frameworks. Nature Chemistry, 2018, 10, 1096-1102.	6.6	134
2037	The effect of topology in Lewis pair functionalized metal organic frameworks on CO ₂ adsorption and hydrogenation. Catalysis Science and Technology, 2018, 8, 4609-4617.	2.1	14
2038	Surface-Functionalization of Zr-Fumarate MOF for Selective Cytotoxicity and Immune System Compatibility in Nanoscale Drug Delivery. ACS Applied Materials & Interfaces, 2018, 10, 31146-31157.	4.0	121
2039	Visible light photocatalytic degradation of MB using Uio-66/g-C ₃ N ₄ heterojunction nanocatalyst. Chemosphere, 2018, 212, 523-532.	4.2	159
2040	Ligands-Coordinated Zr-Based MOF for Wastewater Treatment. Nanomaterials, 2018, 8, 655.	1.9	33
2041	Formation and Characterization of Zr ⁴⁺ Stabilized by Neutral Tridentate Ligands in the Gas Phase. Journal of the American Society for Mass Spectrometry, 2018, 29, 2327-2332.	1.2	9
2042	Determination of carbamazepine in urine and water samples using amino-functionalized metal-organic framework as sorbent. Chemistry Central Journal, 2018, 12, 77.	2.6	29
2043	Sodium-Doped C ₃ N ₄ /MOF Heterojunction Composites with Tunable Band Structures for Photocatalysis: Interplay between Light Harvesting and Electron Transfer. Chemistry - A European Journal, 2018, 24, 18403-18407.	1.7	85
2044	Role of Pore Chemistry and Topology in the CO ₂ Capture Capabilities of MOFs: From Molecular Simulation to Machine Learning. Chemistry of Materials, 2018, 30, 6325-6337.	3.2	144
2045	The insights from X-ray absorption spectroscopy into the local atomic structure and chemical bonding of Metal-organic frameworks. Polyhedron, 2018, 155, 232-253.	1.0	34
2046	Aptamer-functionalized nanoscale metal-organic frameworks for targeted photodynamic therapy. Theranostics, 2018, 8, 4332-4344.	4.6	66
2048	Time modulation of defects in Uio-66 and application in oxidative desulfurization. CrystEngComm, 2018, 20, 5658-5662.	1.3	43
2049	A Flexible Metal-Organic Framework with 4-Connected Zr ₆ Nodes. Journal of the American Chemical Society, 2018, 140, 11179-11183.	6.6	158
2050	The challenges of characterising nanoparticulate catalysts: general discussion. Faraday Discussions, 2018, 208, 339-394.	1.6	5

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2052	Heterometallic metal-organic framework nanocages of high crystallinity: an elongated channel structure formed <i>in situ</i> through metal-ion (M = W or Mo) doping. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23336-23344.	5.2	33
2053	Post-Synthetic Ligand Exchange in Zirconium-Based Metal-Organic Frameworks: Beware of The Defects!. <i>Angewandte Chemie</i> , 2018, 130, 11880-11884.	1.6	3
2054	Combined experimental and theoretical investigation on selective removal of mercury ions by metal organic frameworks modified with thiol groups. <i>Chemical Engineering Journal</i> , 2018, 354, 790-801.	6.6	118
2055	Designed Construction of Cluster Organic Frameworks from Lindqvist-type Polyoxovanadate Cluster. <i>Inorganic Chemistry</i> , 2018, 57, 10323-10330.	1.9	52
2056	Highly Effective Removal of Nonsteroidal Anti-inflammatory Pharmaceuticals from Water by Zr(IV)-Based Metal-Organic Framework: Adsorption Performance and Mechanisms. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28076-28085.	4.0	171
2057	CO ₂ adsorption under humid conditions: Self-regulated water content in CAU-10. <i>Polyhedron</i> , 2018, 155, 163-169.	1.0	25
2058	Site Isolation in Metal-Organic Frameworks Enables Novel Transition Metal Catalysis. <i>Accounts of Chemical Research</i> , 2018, 51, 2129-2138.	7.6	212
2059	A Nanospherical Metal-Organic Framework UiO-66 for Solid-Phase Microextraction of Polycyclic Aromatic Hydrocarbons. <i>Chromatographia</i> , 2018, 81, 1053-1061.	0.7	21
2060	Chemical Engineering of Photoactivity in Heterometallic Titanium-Organic Frameworks by Metal Doping. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8453-8457.	7.2	72
2061	Post-Synthetic Mannich Chemistry on Metal-Organic Frameworks: System-Specific Reactivity and Functionality-Triggered Dissolution. <i>Chemistry - A European Journal</i> , 2018, 24, 11094-11102.	1.7	11
2062	Anchored Aluminum Catalyzed Meerwein-Ponndorf-Verley Reduction at the Metal Nodes of Robust MOFs. <i>Inorganic Chemistry</i> , 2018, 57, 6825-6832.	1.9	12
2063	Benzene, Toluene, and Xylene Transport through UiO-66: Diffusion Rates, Energetics, and the Role of Hydrogen Bonding. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16060-16069.	1.5	60
2064	Study on the Desorption Process of <i>n</i> -Heptane and Methyl Cyclohexane Using UiO-66 with Hierarchical Pores. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21612-21618.	4.0	16
2065	Ultrasmall Ni nanoparticles embedded in Zr-based MOFs provide high selectivity for CO ₂ hydrogenation to methane at low temperatures. <i>Catalysis Science and Technology</i> , 2018, 8, 3160-3165.	2.1	87
2066	Chemical Engineering of Photoactivity in Heterometallic Titanium-Organic Frameworks by Metal Doping. <i>Angewandte Chemie</i> , 2018, 130, 8589-8593.	1.6	9
2067	Structural Characterization of Pristine and Defective [Zr ₁₂ (^{1/4} 3-O) ₈ (^{1/4} 3-OH) ₈ (^{1/4} 2-OH) ₆] Double-Node Metal-Organic Framework and Predicted Applications for Single-Site Catalytic Hydrolysis of Sarin. <i>Chemistry of Materials</i> , 2018, 30, 4432-4439.	3.2	42
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2627	Application of zirconium MOFs in drug delivery and biomedicine. <i>Coordination Chemistry Reviews</i> , 2019, 380, 230-259.	9.5	470
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2629	Encapsulation and controlled release of fragrances from functionalized porous metal-organic frameworks. <i>AIChE Journal</i> , 2019, 65, 491-499.	1.8	39
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2654	Formation and growth of Pd nanoparticles in UiO-67 MOF by in situ EXAFS. <i>Radiation Physics and Chemistry</i> , 2020, 175, 108144.	1.4	14
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2683	Imparting Multifunctionality by Utilizing Biporosity in a Zirconium-Based Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2215-2219.	7.2	25
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3028	Metal-organic frameworks for drug delivery: Degradation mechanism and in vivo fate. , 2020, , 467-489.		11
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3312	Micro Solid Phase Extraction Using Novel Adsorbents. <i>Critical Reviews in Analytical Chemistry</i> , 2021, 51, 103-114.	1.8	28
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4460	Efficient adsorption separation of xylene isomers on Cu-BTC@Fe ₃ O ₄ by appropriate activation methods. <i>Journal of Solid State Chemistry</i> , 2022, 315, 123466.	1.4	2
4461	A smart-sensing coating based on dual-emission fluorescent Zr-MOF composite for autonomous warning of coating damage and aluminum corrosion. <i>Progress in Organic Coatings</i> , 2022, 172, 107150.	1.9	4
4462	Green synthesis of heterogeneous polymeric bio-based acid decorated with hydrophobic regulator for efficient catalytic production of biodiesel at low temperatures. <i>Fuel</i> , 2022, 329, 125467.	3.4	20
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4464	Unraveling photocatalytic electron transfer mechanism in polyoxometalate-encapsulated metal-organic frameworks for high-efficient CO ₂ reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2022, 318, 121812.	10.8	25
4465	Solid-phase extraction and separation of indium with P2O ₄ -UiO-66-MOFs (di-2-ethylhexyl phosphoric) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	3.2	8
4466	Efficient adsorption of naproxen and ibuprofen by gelatin/zirconium-based metal-organic framework/sepiolite aerogels via synergistic mechanisms. <i>Chemical Engineering Journal</i> , 2023, 452, 139426.	6.6	35
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4470	Bioinspired photothermal sponge for simultaneous solar-driven evaporation and solar-assisted wastewater purification. <i>Separation and Purification Technology</i> , 2022, 301, 122010.	3.9	10
4471	Metal-organic frameworks for pharmaceutical and biomedical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 221, 115026.	1.4	13
4472	A zirconium-organic framework nanosheet-based aptasensor with outstanding electrochemical sensing performance. <i>Inorganic Chemistry Communication</i> , 2022, 145, 109970.	1.8	4
4473	Ammonia as an alternative fuel for vehicular applications: Paving the way for adsorbed ammonia and direct ammonia fuel cells. <i>Journal of Cleaner Production</i> , 2022, 376, 133960.	4.6	25
4474	Formaldehyde-modified NH ₂ -UiO-66 for specific sensing and simultaneous removal of mercury ions. <i>Sensors and Actuators Reports</i> , 2022, 4, 100120.	2.3	3
4475	Room temperature fabrication of oriented Zr-MOF membrane with superior gas selectivity with zirconium-oxo cluster source. <i>Journal of Membrane Science</i> , 2022, 661, 120959.	4.1	15
4476	A retrospective-prospective review of Suzuki-Miyaura reaction: From cross-coupling reaction to pharmaceutical industry applications. <i>Polyhedron</i> , 2022, 227, 116124.	1.0	39

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