

# A Calixarene-Based Metal-Organic Framework for Detection

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A Low-Temperature Approach for the Phase-Pure Synthesis of MIL-140 Structured Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2019, 25, 13598-13608.	1.7	16
2	Recent advances in POM-organic frameworks and POM-organic polyhedra. <i>Coordination Chemistry Reviews</i> , 2019, 397, 220-240.	9.5	172
3	A fluorescent pillarene coordination polymer. <i>Polymer Chemistry</i> , 2019, 10, 2980-2985.	1.9	38
4	CO <sub>2</sub> Capture on Functionalized Calixarenes: A Computational Study. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10116-10122.	1.1	10
5	Solvent-responsive cavitand lanthanum complex. <i>Dalton Transactions</i> , 2019, 48, 13732-13739.	1.6	2
6	Kinetic stability of metal-organic frameworks for corrosive and coordinating gas capture. <i>Nature Reviews Materials</i> , 2019, 4, 708-725.	23.3	214
7	Inversion of Dispersion: Colloidal Stability of Calixarene-Modified Metal-Organic Framework Nanoparticles in Nonpolar Media. <i>Journal of the American Chemical Society</i> , 2019, 141, 12182-12186.	6.6	23
8	Diamondoid Nanostructures as sp <sup>3</sup> -Carbon-Based Gas Sensors. <i>Angewandte Chemie</i> , 2019, 131, 10038-10043.	1.6	1
9	Diamondoid Nanostructures as sp <sup>3</sup> -Carbon-Based Gas Sensors. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9933-9938.	7.2	20
10	Selective decontamination of the reactive air pollutant nitrous acid via node-linker cooperativity in a metal-organic framework. <i>Chemical Science</i> , 2019, 10, 5576-5581.	3.7	28
11	Direct grafting-from of PEDOT from a photoreactive Zr-based MOF – a novel route to electrically conductive composite materials. <i>Chemical Communications</i> , 2019, 55, 3367-3370.	2.2	29
12	Highly Stable Copper(I)-Thiacalix[4]arene-Based Frameworks for Highly Efficient Catalysis of Click Reactions in Water. <i>Chemistry - A European Journal</i> , 2019, 25, 16660-16667.	1.7	23
13	Separation performance of p-tert-butyl(tetradecyloxy)calix[6]arene as a stationary phase for capillary gas chromatography. <i>RSC Advances</i> , 2019, 9, 38486-38495.	1.7	6
14	Coordination polymers of zinc(II) and manganese(II) made by complexation of calix[4]arene functionalized with carboxylates afford alveolar materials. <i>Inorganica Chimica Acta</i> , 2019, 486, 562-567.	1.2	9
15	Highly efficient synergistic CO <sub>2</sub> conversion with epoxide using copper polyhedron-based MOFs with Lewis acid and base sites. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4517-4526.	3.0	36
16	Destruction of Metal-Organic Frameworks: Positive and Negative Aspects of Stability and Lability. <i>Chemical Reviews</i> , 2020, 120, 13087-13133.	23.0	294
17	3D Hydrangea Macrophylla-like Nickel-Vanadium Metal-Organic Frameworks Formed by Self-Assembly of Ultrathin 2D Nanosheets for Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 48495-48510.	4.0	57
18	Applications of multifunctional zirconium-based metal-organic frameworks in analytical chemistry: Overview and perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 131, 116015.	5.8	35

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19	Transition-Metal-Containing Porphyrin Metal-Organic Frameworks as π-Backbonding Adsorbents for NO <sub>2</sub> Removal. <i>Angewandte Chemie</i> , 2020, 132, 19848-19851.	1.6	2
20	Transition-Metal-Containing Porphyrin Metal-Organic Frameworks as π-Backbonding Adsorbents for NO <sub>2</sub> Removal. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19680-19683.	7.2	49
21	Two coordination polymers based on p-tert-butylcalix[4]arene as efficient luminescent sensor for Fe <sup>3+</sup> and MnO <sub>4</sub> <sup>2-</sup> ions. <i>Inorganic Chemistry Communication</i> , 2020, 122, 108290.	1.8	10
22	Functional metal-organic frameworks as effective sensors of gases and volatile compounds. <i>Chemical Society Reviews</i> , 2020, 49, 6364-6401.	18.7	784
23	Overview of the Synthesis and Structure of Calix[n]quinones (n=4, 6, 8). <i>Chemistry - an Asian Journal</i> , 2020, 15, 2952-2959.	1.7	8
24	Near-Zero Power MOF-Based Sensors for NO <sub>2</sub> Detection. <i>Advanced Functional Materials</i> , 2020, 30, 2006598.	7.8	74
25	Solvent-assisted linker exchange as a tool for the design of mixed-linker MIL-140D structured MOFs for highly selective detection of gaseous H <sub>2</sub> S. <i>RSC Advances</i> , 2020, 10, 12334-12338.	1.7	3
26	Metal-Organic Frameworks against Toxic Chemicals. <i>Chemical Reviews</i> , 2020, 120, 8130-8160.	23.0	406
27	Luminescent MOF crystals embedded in PMMA/PDMS transparent films as effective NO <sub>2</sub> gas sensors. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1048-1056.	1.7	34
28	Topology-Based Functionalization of Robust Chiral Zr-Based Metal-Organic Frameworks for Catalytic Enantioselective Hydrogenation. <i>Journal of the American Chemical Society</i> , 2020, 142, 9642-9652.	6.6	48
29	Topology: ToposPro. , 2021, , 389-412.		23
30	Power of Infrared and Raman Spectroscopies to Characterize Metal-Organic Frameworks and Investigate Their Interaction with Guest Molecules. <i>Chemical Reviews</i> , 2021, 121, 1286-1424.	23.0	349
31	Highly sensitive NO <sub>2</sub> response and abnormal P-N sensing transition with ultrathin Mo-doped SnS <sub>2</sub> nanosheets. <i>Chemical Engineering Journal</i> , 2021, 420, 127572.	6.6	46
32	4.8 nm Concave {M <sub>72</sub> } (M=Co, Ni, Fe) metal-organic polyhedra capped by 18 calixarenes. <i>Science China Chemistry</i> , 2021, 64, 426-431.	4.2	33
33	MOF-based electrocatalysts for high-efficiency CO <sub>2</sub> conversion: structure, performance, and perspectives. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22710-22728.	5.2	20
34	Growth of robust metal-organic framework films by spontaneous oxidation of a metal substrate for NO <sub>2</sub> sensing. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6476-6484.	3.2	13
35	Coordination polymers with embedded recognition sites: lessons from cyclotrimeratrylene-type ligands. <i>CrystEngComm</i> , 2021, 23, 4087-4102.	1.3	4
36	Continuous MOF Membrane-Based Sensors via Functionalization of Interdigitated Electrodes. <i>Membranes</i> , 2021, 11, 176.	1.4	15

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37	A reticular chemistry guide for the design of periodic solids. <i>Nature Reviews Materials</i> , 2021, 6, 466-487.	23.3	166
38	Hold on Tight: MOF-Based Irreversible Gas Sensors. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 7998-8006.	1.8	31
39	Self-Assembly of Polyoxometalate-Resorcin[4]arene-Based Inorganic-Organic Complexes: Metal Ion Effects on the Electrochemical Performance of Lithium Ion Batteries. <i>Chemistry - A European Journal</i> , 2021, 27, 10123-10133.	1.7	8
40	Der derzeitige Stand von MOF- und COF-Anwendungen. <i>Angewandte Chemie</i> , 2021, 133, 24174-24202.	1.6	18
41	The Current Status of MOF and COF Applications. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23975-24001.	7.2	450
42	Atomically dispersed Pb ionic sites in PbCdSe quantum dot gels enhance room-temperature NO <sub>2</sub> sensing. <i>Nature Communications</i> , 2021, 12, 4895.	5.8	40
43	Enhancement of singlet oxygen generation based on incorporation of oxoporphyrinogen (OxP) into microporous solids. <i>Materials Today Chemistry</i> , 2021, 21, 100534.	1.7	8
44	Structural Regulation and Light Hydrocarbon Adsorption/Separation of Three Zirconium-Organic Frameworks Based on Different V-Shaped Ligands. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 41680-41687.	4.0	25
45	Nickel-Loaded SSZ-13 Zeolite-Based Sensor for the Direct Electrical Readout Detection of NO <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 14371-14380.	1.8	4
46	Resorcin[4]arene-based microporous metal-organic framework/reduced graphene oxide composite as an electrocatalyst for effective and simultaneous determination of p-nitrophenol and o-nitrophenol isomers. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130604.	4.0	18
47	Inside/Outside: Post-Synthetic Modification of the Zr-Benzophenonedicarboxylate Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2020, 26, 2222-2232.	1.7	10
48	Hybrids of Metal-Organic Frameworks as Organized Supramolecular Nano-reactors. <i>RSC Catalysis Series</i> , 2019, , 479-502.	0.1	0
49	A versatile enrichment of functionalized calixarene as a facile sensor for amino acids. <i>Luminescence</i> , 2022, 37, 370-390.	1.5	6
50	Templated synthesis of zirconium( <i>iv</i> )-based metal-organic layers (MOLs) with accessible chelating sites. <i>Chemical Communications</i> , 2022, 58, 957-960.	2.2	6
51	Metal-Organic Frameworks for NO <sub>x</sub> Adsorption and Their Applications in Separation, Sensing, Catalysis, and Biology. <i>Small</i> , 2022, 18, e2105484.	5.2	29
52	CdS based chemiresistor with Schottky contact: Toxic gases detection with enhanced sensitivity and selectivity at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131421.	4.0	15
53	Advances in Metal-Organic Frameworks-Based Gas Sensors for Hazardous Substances. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
54	Recent Progress in Metal-Organic Framework Based Fluorescent Sensors for Hazardous Materials Detection. <i>Molecules</i> , 2022, 27, 2226.	1.7	25

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55	Perspectives in Adsorptive and Catalytic Mitigations of NO <sub>2</sub> Using Metal-Organic Frameworks. <i>Energy &amp; Fuels</i> , 2022, 36, 3347-3371.	2.5	13
56	Metal-organic framework coated planar polymer optical waveguide for carbon dioxide detection and sensing. , 2022, , .		2
57	Anchoring Platinum Clusters onto Oxygen Vacancy-Modified In <sub>2</sub> O <sub>3</sub> for Ultraefficient, Low-Temperature, Highly Sensitive, and Stable Detection of Formaldehyde. <i>ACS Sensors</i> , 2022, 7, 1201-1212.	4.0	28
58	Advances in metal-organic frameworks-based gas sensors for hazardous substances. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 153, 116644.	5.8	29
59	Tuning the Size and Geometry of Pd(II)-Based Metallacalixarenes by Varying the N-Containing Ligands: Synthesis, Structure, and Sensing Properties. <i>Crystal Growth and Design</i> , 2022, 22, 3740-3752.	1.4	1
60	Effectiveness of metal-organic framework as sensors: Comprehensive review. , 2022, , 47-64.		2
61	Recent Advances in Research on the Effect of Physicochemical Properties on the Cytotoxicity of Metal-Organic Frameworks. <i>Small Science</i> , 2022, 2, .	5.8	20
62	Macrocyclic scaffold: A boon in advancement of sensor technology- review. <i>Materials Today: Proceedings</i> , 2022, 71, 370-376.	0.9	2
63	Solid-phase extraction of nonsteroidal anti-inflammatory drugs in urine and water samples using acidic calix[4]arene intercalated in LDH followed by quantification via HPLC-UV. <i>Microchemical Journal</i> , 2022, 183, 107985.	2.3	6
64	Molecular Evolution of Nitrogen Dioxide on a Nanostructured Gold Surface in the Atmosphere by <i>In Situ</i> Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2022, 126, 18006-18017.	1.5	0
65	Moisture-Insensitive and Highly Selective Detection of NO <sub>2</sub> by Ion-in-Conjugation Covalent Organic Frameworks. <i>ACS Sensors</i> , 2022, 7, 3782-3789.	4.0	5
66	A Self-Powered, Rechargeable, and Wearable Hydrogel Patch for Wireless Gas Detection with Extraordinary Performance. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	33
67	Cu-MOF-808 as a Sensing Material for Gaseous Hydrogen Sulfide. <i>ChemPlusChem</i> , 2023, 88, .	1.3	0
68	Recent Breakthroughs in Supercapacitors Boosted by Macrocycles. <i>ChemSusChem</i> , 0, , .	3.6	1
69	Preferential Crystallization of <i>tert</i> -Butyl-calix[6]arene Chlorobenzene Solvate from a Solvent Mixture. <i>Crystal Growth and Design</i> , 0, , .	1.4	0
70	Bioinspired Framework Catalysts: From Enzyme Immobilization to Biomimetic Catalysis. <i>Chemical Reviews</i> , 2023, 123, 5347-5420.	23.0	37
71	A mesoporous Zr-based metal-organic framework driven by the assembly of an octatopic linker. <i>Chemical Communications</i> , 2023, 59, 7803-7806.	2.2	2
74	Applications of macrocycle-based solid-state host-guest chemistry. <i>Nature Reviews Chemistry</i> , 2023, 7, 768-782.	13.8	6

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75	Application of Metal-Organic Framework Sponges for Toxic or Greenhouse Gas Adsorption. , 2023, , 219-246.		1