

List of Publications by Citations

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

234 papers	16,162 citations	66 h-index	124 g-index
263 ext. papers	19,070 ext. citations	10.1 avg, IF	7.16 L-index

#	Paper	IF	Citations
234	Potential applications of metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2009 , 253, 3042-3062	16.2	1235
233	Tuning the topology and functionality of metal-organic frameworks by ligand design. <i>Accounts of Chemical Research</i> , 2011 , 44, 123-33	24.3	859
232	An isorecticular series of metal-organic frameworks with dendritic hexacarboxylate ligands and exceptionally high gas-uptake capacity. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5357-61	16.4	622
231	Two-dimensional metal-organic framework with wide channels and responsive turn-on fluorescence for the chemical sensing of volatile organic compounds. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7241-4	16.4	527
230	Highly stable porous polymer networks with exceptionally high gas-uptake capacities. <i>Advanced Materials</i> , 2011 , 23, 3723-5	24	485
229	Sulfonate-grafted porous polymer networks for preferential CO ₂ adsorption at low pressure. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18126-9	16.4	479
228	Porous Polymer Networks: Synthesis, Porosity, and Applications in Gas Storage/Separation. <i>Chemistry of Materials</i> , 2010 , 22, 5964-5972	9.6	466
227	Mixed Matrix Membranes (MMMs) Comprising Exfoliated 2D Covalent Organic Frameworks (COFs) for Efficient CO ₂ Separation. <i>Chemistry of Materials</i> , 2016 , 28, 1277-1285	9.6	404
226	The current status of hydrogen storage in metal-organic frameworks. <i>Energy and Environmental Science</i> , 2008 , 1, 222	35.4	386
225	Highly efficient nonprecious metal catalyst prepared with metal-organic framework in a continuous carbon nanofibrous network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10629-34	11.5	308
224	Stabilization of metal-organic frameworks with high surface areas by the incorporation of mesocavities with microwindows. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9186-8	16.4	297
223	Surface functionalization of porous coordination nanocages via click chemistry and their application in drug delivery. <i>Advanced Materials</i> , 2011 , 23, 90-3	24	295
222	Reversed thermo-switchable molecular sieving membranes composed of two-dimensional metal-organic nanosheets for gas separation. <i>Nature Communications</i> , 2017 , 8, 14460	17.4	290
221	Highly efficient non-precious metal electrocatalysts prepared from one-pot synthesized zeolitic imidazolate frameworks. <i>Advanced Materials</i> , 2014 , 26, 1093-7	24	270
220	A two-dimensional conjugated aromatic polymer via C-C coupling reaction. <i>Nature Chemistry</i> , 2017 , 9, 563-570	17.6	243
219	A metal-free ORR/OER bifunctional electrocatalyst derived from metal-organic frameworks for rechargeable Zn-Air batteries. <i>Carbon</i> , 2017 , 111, 641-650	10.4	233
218	A Modulated Hydrothermal (MHT) Approach for the Facile Synthesis of UiO-66-Type MOFs. <i>Inorganic Chemistry</i> , 2015 , 54, 4862-8	5.1	232

217	Reversibility of anodic lithium in rechargeable lithium-oxygen batteries. <i>Nature Communications</i> , 2013 , 4, 2255	17.4	207
216	Iron imidazolate framework as precursor for electrocatalysts in polymer electrolyte membrane fuel cells. <i>Chemical Science</i> , 2012 , 3, 3200	9.4	205
215	Mechanoassisted Synthesis of Sulfonated Covalent Organic Frameworks with High Intrinsic Proton Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18505-12	9.5	160
214	Facile Preparation of Graphene Oxide Membranes for Gas Separation. <i>Chemistry of Materials</i> , 2016 , 28, 2921-2927	9.6	158
213	Decorating Co/CoN _x nanoparticles in nitrogen-doped carbon nanoarrays for flexible and rechargeable zinc-air batteries. <i>Energy Storage Materials</i> , 2019 , 16, 243-250	19.4	157
212	Metal-organic frameworks with Lewis acidity: synthesis, characterization, and catalytic applications. <i>CrystEngComm</i> , 2017 , 19, 4066-4081	3.3	154
211	CO ₂ Capture in Metal-Organic Framework Adsorbents: An Engineering Perspective. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800080	5.9	153
210	Ultrathin Two-Dimensional Membranes Assembled by Ionic Covalent Organic Nanosheets with Reduced Apertures for Gas Separation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4472-4480	16.4	152
209	Room Temperature Batch and Continuous Flow Synthesis of Water-Stable Covalent Organic Frameworks (COFs). <i>Chemistry of Materials</i> , 2016 , 28, 5095-5101	9.6	150
208	ZnO Nanosheets Abundant in Oxygen Vacancies Derived from Metal-Organic Frameworks for ppb-Level Gas Sensing. <i>Advanced Materials</i> , 2019 , 31, e1807161	24	141
207	Advanced Porous Materials in Mixed Matrix Membranes. <i>Advanced Materials</i> , 2018 , 30, e1802401	24	141
206	Long wavelength excitable near-infrared fluorescent nanoparticles with aggregation-induced emission characteristics for image-guided tumor resection. <i>Chemical Science</i> , 2017 , 8, 2782-2789	9.4	131
205	De facto methodologies toward the synthesis and scale-up production of UiO-66-type metal-organic frameworks and membrane materials. <i>Dalton Transactions</i> , 2015 , 44, 19018-40	4.3	129
204	Ni-Doped Cobalt-Nitride Heterostructure Arrays for High-Power Supercapacitors. <i>ACS Energy Letters</i> , 2018 , 3, 2462-2469	20.1	129
203	Direct Synthesis of Hierarchically Porous Metal-Organic Frameworks with High Stability and Strong Brønsted Acidity: The Decisive Role of Hafnium in Efficient and Selective Fructose Dehydration. <i>Chemistry of Materials</i> , 2016 , 28, 2659-2667	9.6	127
202	A NbO-type metal-organic framework derived from a polyyne-coupled di-isophthalate linker formed in situ. <i>Chemical Communications</i> , 2010 , 46, 4196-8	5.8	126
201	Electrocatalysts Derived from Metal-Organic Frameworks for Oxygen Reduction and Evolution Reactions in Aqueous Media. <i>Small</i> , 2017 , 13, 1701143	11	125
200	Tunability of band gaps in metal-organic frameworks. <i>Inorganic Chemistry</i> , 2012 , 51, 9039-44	5.1	123

199	Synthesis of a Sulfonated Two-Dimensional Covalent Organic Framework as an Efficient Solid Acid Catalyst for Biobased Chemical Conversion. <i>ChemSusChem</i> , 2015 , 8, 3208-12	8.3	122
198	Ultrathin two-dimensional porous organic nanosheets with molecular rotors for chemical sensing. <i>Nature Communications</i> , 2017 , 8, 1142	17.4	119
197	Robust Bifunctional Lanthanide Cluster Based Metal-Organic Frameworks (MOFs) for Tandem Deacetalization-Knoevenagel Reaction. <i>Inorganic Chemistry</i> , 2018 , 57, 2193-2198	5.1	118
196	Modulated Hydrothermal Synthesis of UiO-66(Hf)-Type Metal-Organic Frameworks for Optimal Carbon Dioxide Separation. <i>Inorganic Chemistry</i> , 2016 , 55, 1134-41	5.1	117
195	Ultrathin mixed matrix membranes containing two-dimensional metal-organic framework nanosheets for efficient CO ₂ /CH ₄ separation. <i>Journal of Membrane Science</i> , 2017 , 539, 213-223	9.6	116
194	Mixed matrix membranes containing MOF@COF hybrid fillers for efficient CO ₂ /CH ₄ separation. <i>Journal of Membrane Science</i> , 2019 , 573, 97-106	9.6	108
193	Process-Tracing Study on the Postassembly Modification of Highly Stable Zirconium Metal-Organic Cages. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6231-6234	16.4	105
192	Highly Porous Carbon Derived from MOF-5 as a Support of ORR Electrocatalysts for Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17268-75	9.5	105
191	Recent advances in POM-organic frameworks and POM-organic polyhedra. <i>Coordination Chemistry Reviews</i> , 2019 , 397, 220-240	23.2	102
190	Alternatives to Cryogenic Distillation: Advanced Porous Materials in Adsorptive Light Olefin/Paraffin Separations. <i>Small</i> , 2019 , 15, e1900058	11	101
189	Mixed matrix membranes composed of two-dimensional metal-organic framework nanosheets for pre-combustion CO ₂ capture: a relationship study of filler morphology versus membrane performance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20801-20810	13	101
188	Modulator Effects on the Water-Based Synthesis of Zr/Hf Metal-Organic Frameworks: Quantitative Relationship Studies between Modulator, Synthetic Condition, and Performance. <i>Crystal Growth and Design</i> , 2016 , 16, 2295-2301	3.5	99
187	High CO ₂ separation performance of Pebax/CNTs/GTA mixed matrix membranes. <i>Journal of Membrane Science</i> , 2017 , 521, 104-113	9.6	97
186	Ionized Zr-MOFs for highly efficient post-combustion CO ₂ capture. <i>Chemical Engineering Science</i> , 2015 , 124, 61-69	4.4	91
185	An Isorecticular Series of Metal-Organic Frameworks with Dendritic Hexacarboxylate Ligands and Exceptionally High Gas-Uptake Capacity. <i>Angewandte Chemie</i> , 2010 , 122, 5485-5489	3.6	91
184	Confinement of Aggregation-Induced Emission Molecular Rotors in Ultrathin Two-Dimensional Porous Organic Nanosheets for Enhanced Molecular Recognition. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4035-4046	16.4	88
183	Metal-Organic Framework as a Simple and General Inert Nanocarrier for Photosensitizers to Implement Activatable Photodynamic Therapy. <i>Advanced Functional Materials</i> , 2018 , 28, 1707519	15.6	86
182	Kinetically controlled synthesis of two-dimensional Zr/Hf metal-organic framework nanosheets via a modulated hydrothermal approach. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8954-8963	13	85

181	Solvent-Induced Control over Breathing Behavior in Flexible Metal-Organic Frameworks for Natural-Gas Delivery. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8073-8077	16.4	83
180	A stepwise transition from microporosity to mesoporosity in metal-organic frameworks by thermal treatment. <i>Chemical Science</i> , 2011 , 2, 103-106	9.4	82
179	Thermosensitive gating effect and selective gas adsorption in a porous coordination nanocage. <i>Chemical Communications</i> , 2010 , 46, 7352-4	5.8	80
178	Fluorescent Porous Organic Frameworks Containing Molecular Rotors for Size-Selective Recognition. <i>Chemistry of Materials</i> , 2016 , 28, 7889-7897	9.6	79
177	Beyond Equilibrium: Metal-Organic Frameworks for Molecular Sieving and Kinetic Gas Separation. <i>Crystal Growth and Design</i> , 2017 , 17, 2291-2308	3.5	78
176	Bio-Inspired Robust Membranes Nanoengineered from Interpenetrating Polymer Networks of Polybenzimidazole/Polydopamine. <i>ACS Nano</i> , 2019 , 13, 125-133	16.7	78
175	Web-Like Interconnected Carbon Networks from NaCl-Assisted Pyrolysis of ZIF-8 for Highly Efficient Oxygen Reduction Catalysis. <i>Small</i> , 2018 , 14, e1704169	11	77
174	Atomic- and Molecular-Level Design of Functional Metal-Organic Frameworks (MOFs) and Derivatives for Energy and Environmental Applications. <i>Advanced Science</i> , 2019 , 6, 1901129	13.6	77
173	Sulfated Mesoporous Niobium Oxide Catalyzed 5-Hydroxymethylfurfural Formation from Sugars. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 14225-14233	3.9	77
172	Mixed Matrix Membranes for Natural Gas Upgrading: Current Status and Opportunities. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4139-4169	3.9	76
171	Restriction of Molecular Rotors in Ultrathin Two-Dimensional Covalent Organic Framework Nanosheets for Sensing Signal Amplification. <i>Chemistry of Materials</i> , 2019 , 31, 146-160	9.6	75
170	A combinatorial approach towards water-stable metal-organic frameworks for highly efficient carbon dioxide separation. <i>ChemSusChem</i> , 2014 , 7, 2791-5	8.3	68
169	Pressure-responsive curvature change of a "rigid" geodesic ligand in a (3,24)-connected mesoporous metal-organic framework. <i>Inorganic Chemistry</i> , 2011 , 50, 10528-30	5.1	68
168	Counterion-assisted shaping of nanocluster supracrystals. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 184-9	16.4	66
167	A highly stable metal-organic framework with optimum aperture size for CO ₂ capture. <i>AIChE Journal</i> , 2017 , 63, 4103-4114	3.6	64
166	Combination of Optimization and Metalated-Ligand Exchange: An Effective Approach to Functionalize UiO-66(Zr) MOFs for CO ₂ Separation. <i>Chemistry - A European Journal</i> , 2015 , 21, 17246-55	4.8	64
165	Activation of sucrose-derived carbon spheres for high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2015 , 5, 9307-9313	3.7	61
164	Efficient Trapping of Trace Acetylene from Ethylene in an Ultramicroporous Metal-Organic Framework: Synergistic Effect of High-Density Open Metal and Electronegative Sites. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18927-18932	16.4	56

163	Isoreticular covalent organic frameworks for hydrocarbon uptake and separation: the important role of monomer planarity. <i>CrystEngComm</i> , 2017 , 19, 4899-4904	3.3	55
162	Self-Assembly of Highly Stable Zirconium(IV) Coordination Cages with Aggregation Induced Emission Molecular Rotors for Live-Cell Imaging. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10151-10159	16.4	55
161	Improving Water-Treatment Performance of Zirconium Metal-Organic Framework Membranes by Postsynthetic Defect Healing. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37848-37855	9.5	54
160	On-Chip Tailorability of Capacitive Gas Sensors Integrated with Metal-Organic Framework Films. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14089-14094	16.4	53
159	Soft-template carbonization approach of MOF-5 to mesoporous carbon nanospheres as excellent electrode materials for supercapacitor. <i>Microporous and Mesoporous Materials</i> , 2017 , 253, 169-176	5.3	52
158	Highly efficient CO ₂ capture by mixed matrix membranes containing three-dimensional covalent organic framework fillers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4549-4560	13	51
157	Metal-organic frameworks (MOFs) as precursors towards TiO _x /C composites for photodegradation of organic dye. <i>RSC Advances</i> , 2014 , 4, 34221-34225	3.7	50
156	Improving the hydrogen selectivity of graphene oxide membranes by reducing non-selective pores with intergrown ZIF-8 crystals. <i>Chemical Communications</i> , 2016 , 52, 8087-90	5.8	48
155	Hybrid MOF-808-Tb nanospheres for highly sensitive and selective detection of acetone vapor and Fe in aqueous solution. <i>Chemical Communications</i> , 2019 , 55, 4727-4730	5.8	46
154	Thermo-Responsive MOF/Polymer Composites for Temperature-Mediated Water Capture and Release. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11003-11009	16.4	46
153	A review of metal-organic frameworks (MOFs) as energy-efficient desiccants for adsorption driven heat-transformation applications. <i>Applied Energy</i> , 2020 , 269, 115070	10.7	46
152	Breathing-induced new phase transition in an MIL-53(Al)-NH metal-organic framework under high methane pressures. <i>Chemical Communications</i> , 2017 , 53, 8118-8121	5.8	45
151	Hybrid Photonic Cavity with Metal-Organic Framework Coatings for the Ultra-Sensitive Detection of Volatile Organic Compounds with High Immunity to Humidity. <i>Scientific Reports</i> , 2017 , 7, 41640	4.9	44
150	Silver-Decorated Hafnium Metal-Organic Framework for Ethylene/Ethane Separation. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4508-4516	3.9	44
149	3D-Printing of Pure Metal-Organic Framework Monoliths 2019 , 1, 147-153		44
148	Synthesis, Structural Characterization, and Photocatalytic Performance of Mesoporous W-MCM-48. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15728-15734	3.8	43
147	Fabrication of Highly Stable and Efficient PtCu Alloy Nanoparticles on Highly Porous Carbon for Direct Methanol Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20793-801	9.5	42
146	Enhanced Polymer Crystallinity in Mixed-Matrix Membranes Induced by Metal-Organic Framework Nanosheets for Efficient CO Capture. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43095-43103	9.5	42

145	Scalable and Sustainable Synthesis of Advanced Porous Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3647-3670	8.3	41
144	The chemistry and applications of hafnium and cerium(iv) metal-organic frameworks. <i>Chemical Society Reviews</i> , 2021 , 50, 4629-4683	58.5	41
143	Interlayer Shifting in Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12995-13002	16.4	40
142	Influence of cationic and non-ionic surfactants on the kinetics of mixed hydrogen/tetrahydrofuran hydrates. <i>Chemical Engineering Science</i> , 2015 , 132, 186-199	4.4	39
141	Aggregation-Induced Emission-Responsive Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2020 , 32, 6706-6720	9.6	38
140	Janus Electrocatalysts Containing MOF-Derived Carbon Networks and NiFe-LDH Nanoplates for Rechargeable Zinc-Air Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1784-1792	6.1	37
139	Introduction of cavities up to 4 nm into a hierarchically-assembled metal-organic framework using an angular, tetratopic ligand. <i>Chemical Communications</i> , 2010 , 46, 5223-5	5.8	35
138	Functionalization-Induced Breathing Control in Metal-Organic Frameworks for Methane Storage with High Deliverable Capacity. <i>Chemistry of Materials</i> , 2019 , 31, 2842-2847	9.6	34
137	Mechanical Properties of Microcrystalline Metal-Organic Frameworks (MOFs) Measured by Bimodal Amplitude Modulated-Frequency Modulated Atomic Force Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32202-32210	9.5	33
136	Melamine-terephthalaldehyde-lithium complex: a porous organic network based single ion electrolyte for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5132-5139	13	33
135	Enhanced catalytic activity of a hierarchical porous metal-organic framework CuBTC. <i>CrystEngComm</i> , 2015 , 17, 7124-7129	3.3	31
134	Mixed Matrix Membranes Containing UiO-66(Hf)-(OH) ₂ Metal-Organic Framework Nanoparticles for Efficient H ₂ /CO ₂ Separation. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7933-7940	3.9	31
133	Binder-free 3D printing of covalent organic framework (COF) monoliths for CO ₂ adsorption. <i>Chemical Engineering Journal</i> , 2021 , 403, 126333	14.7	31
132	MOF-Derived Carbon Networks with Atomically Dispersed Fe ^{II} Sites for Oxygen Reduction Reaction Catalysis in Acidic Media 2019 , 1, 37-43		30
131	Probing the Microporous Structure of Silica Shell Via Aggregation-Induced Emission in Au(I)-Thiolate@SiO ₂ Nanoparticle. <i>Small</i> , 2016 , 12, 6537-6541	11	29
130	Metal-Organic Frameworks with Reduced Hydrophilicity for Postcombustion CO ₂ Capture from Wet Flue Gas. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11904-11912	8.3	29
129	Synthesis, structure, and magnetic and catalytic properties of metal frameworks with 2,2'-dinitro-4,4'-biphenyldicarboxylate and imidazole-containing tripodal ligands. <i>Dalton Transactions</i> , 2016 , 45, 8816-23	4.3	29
128	Plasticization resistance-enhanced CO ₂ separation at elevated pressures by mixed matrix membranes containing flexible metal-organic framework fillers. <i>Journal of Membrane Science</i> , 2019 , 582, 103-110	9.6	28

127	Metal-Organic Frameworks (MOFs)-boosted filtration membrane technology for water sustainability. <i>APL Materials</i> , 2020 , 8, 040902	5.7	28
126	Biocompatible Cyclodextrin-Based Metal-Organic Frameworks for Long-Term Sustained Release of Fragrances. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19767-19777	3.9	27
125	Harnessing solvent effects to integrate alkylamine into metal-organic frameworks for exceptionally high CO ₂ uptake. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7867-7874	13	27
124	Optimal Pore Chemistry in an Ultramicroporous Metal-Organic Framework for Benchmark Inverse CO ₂ /C ₂ H ₄ Separation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17198-17204	16.4	27
123	Encapsulation and controlled release of fragrances from functionalized porous metal-organic frameworks. <i>AIChE Journal</i> , 2019 , 65, 491-499	3.6	27
122	Indium-Based Heterometal-Organic Frameworks with Different Nanoscale Cages: Syntheses, Structures, and Gas Adsorption Properties. <i>Crystal Growth and Design</i> , 2017 , 17, 1159-1165	3.5	26
121	A Triphasic Modulated Hydrothermal Approach for the Synthesis of Multivariate Metal-Organic Frameworks with Hydrophobic Moieties for Highly Efficient Moisture-Resistant CO ₂ Capture. <i>Advanced Sustainable Systems</i> , 2017 , 1, 1700092	5.9	26
120	Chip-Level Integration of Covalent Organic Frameworks for Trace Benzene Sensing. <i>ACS Sensors</i> , 2020 , 5, 1474-1481	9.2	25
119	Mechano-assisted synthesis of an ultramicroporous metal-organic framework for trace CO capture. <i>Chemical Communications</i> , 2020 , 56, 7726-7729	5.8	24
118	Pore Size Reduction in Zirconium Metal-Organic Frameworks for Ethylene/Ethane Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7118-7126	8.3	24
117	Highly efficient photocatalysts by pyrolyzing a Zn ^{II} /Ni heterometallic metal-organic framework. <i>CrystEngComm</i> , 2016 , 18, 4046-4052	3.3	23
116	Dimensional Impact of Metal-Organic Frameworks in Catalyzing Photoinduced Hydrogen Evolution and Cyanosilylation Reactions. <i>ACS Applied Energy Materials</i> , 2019 , 2, 298-304	6.1	23
115	Hydrazone-based covalent organic frameworks for Lewis acid catalysis. <i>Dalton Transactions</i> , 2018 , 47, 13824-13829	4.3	23
114	Pressure-Responsive Two-Dimensional Metal-Organic Framework Composite Membranes for CO ₂ Separation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11318-11325	16.4	22
113	Impacts of Imidazolate Ligand on Performance of Zeolitic-Imidazolate Framework-Derived Oxygen Reduction Catalysts. <i>ACS Energy Letters</i> , 2019 , 4, 2500-2507	20.1	21
112	A pH-responsive phase transformation of a sulfonated metal-organic framework from amorphous to crystalline for efficient CO ₂ capture. <i>CrystEngComm</i> , 2016 , 18, 2803-2807	3.3	21
111	Structural-failure resistance of metal-organic frameworks toward multiple-cycle CO sorption. <i>Chemical Communications</i> , 2017 , 53, 8653-8656	5.8	21
110	Influence of indomethacin-loading on the micellization and drug release of thermosensitive dextran-graft-poly(N-isopropylacrylamide). <i>Reactive and Functional Polymers</i> , 2011 , 71, 820-827	4.6	21

109	Cobalt-containing covalent organic frameworks for visible light-driven hydrogen evolution. <i>Science China Chemistry</i> , 2020 , 63, 192-197	7.9	21
108	Efficient Trapping of Trace Acetylene from Ethylene in an Ultramicroporous Metal-Organic Framework: Synergistic Effect of High-Density Open Metal and Electronegative Sites. <i>Angewandte Chemie</i> , 2020 , 132, 19089-19094	3.6	21
107	Fe/Fe C/N-Doped Carbon Materials from Metal-Organic Framework Composites as Highly Efficient Oxygen Reduction Reaction Electrocatalysts. <i>ChemPlusChem</i> , 2016 , 81, 718-723	2.8	21
106	Cluster nuclearity control and modulated hydrothermal synthesis of functionalized Zr metal-organic frameworks. <i>Dalton Transactions</i> , 2019 , 48, 7069-7073	4.3	20
105	Multivariate Polycrystalline Metal-Organic Framework Membranes for CO/CH Separation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17716-17723	16.4	20
104	Mechanical Properties of Shaped Metal-Organic Frameworks. <i>Topics in Current Chemistry</i> , 2019 , 377, 25	7.2	19
103	Novel hetero-bimetallic coordination polymer as a single source of highly dispersed Cu/Ni nanoparticles for efficient photocatalytic water splitting. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1816-1827	6.8	19
102	Microfocused X-ray study on precipitate formation in the separator region of nonaqueous Li-O(2) batteries. <i>ChemSusChem</i> , 2012 , 5, 2421-6	8.3	19
101	Thin-Film Nanocomposite Membranes Containing Water-Stable Zirconium Metal-Organic Cages for Desalination 2021 , 3, 268-274		19
100	Modulated Hydrothermal Synthesis of Highly Stable MOF-808(Hf) for Methane Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 17042-17053	8.3	18
99	A new insight for photocatalytic hydrogen production by a Cu/Ni based cyanide bridged polymer as a co-catalyst on titania support in glycerol water mixture. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 2508-2518	6.7	18
98	Metal-Organic Framework Based Gas Sensors.. <i>Advanced Science</i> , 2021 , e2104374	13.6	18
97	Encapsulation and Protection of Ultrathin Two-Dimensional Porous Organic Nanosheets within Biocompatible Metal-Organic Frameworks for Live-Cell Imaging. <i>Chemistry of Materials</i> , 2019 , 31, 4897-4912	8.6	17
96	Multiscale Design of Flexible Metal-Organic Frameworks. <i>Trends in Chemistry</i> , 2020 , 2, 199-213	14.8	17
95	Two-Dimensional Membranes: New Paradigms for High-Performance Separation Membranes. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2241-2270	4.5	17
94	Probing nanoscale functionalities of metal-organic framework nanocrystals. <i>Nanoscale</i> , 2017 , 9, 12163-12169	17.69	17
93	Porous organic cages as synthetic water channels. <i>Nature Communications</i> , 2020 , 11, 4927	17.4	17
92	Tetrazole-Functionalized Zirconium Metal-Organic Cages for Efficient C H /C H and C H /CO Separations. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17338-17343	16.4	17

91	Luminescent Metal-Organic Frameworks for the Detection and Discrimination of o-Xylene from Xylene Isomers. <i>Inorganic Chemistry</i> , 2018 , 57, 13631-13639	5.1	16
90	Polycrystalline zirconium metal-organic framework membranes supported on flexible carbon cloth for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2020 , 615, 118551	9.6	14
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