

Dan Zhao

List of Publications by Year in Descending Order

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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	Ultralarge Free-Standing Imine-Based Covalent Organic Framework Membranes Fabricated via Compression.. <i>Advanced Science</i> , 2022 , e2104643	13.6	6
233	Induced polymer crystallinity in mixed matrix membranes by metal-organic framework nanosheets for gas separation 2022 , 2, 100017		3
232	A metal-organic framework (MOF)-based temperature swing adsorption cycle for postcombustion CO2 capture from wet flue gas. <i>Chemical Engineering Science</i> , 2022 , 250, 117399	4.4	2
231	Polycrystalline Iron(III) metal-organic framework membranes for organic solvent nanofiltration with high permeance. <i>Journal of Membrane Science</i> , 2022 , 644, 120130	9.6	1
230	Amino-functionalized NUS-8 nanosheets as fillers in PIM-1 mixed matrix membranes for CO2 separations. <i>Journal of Membrane Science</i> , 2022 , 641, 119912	9.6	5
229	Liquid Membrane Technology for Sustainable Separations 2022 , 297-341		1
228	Microfluidic Platforms for Cell Sorting 2022 , 653-695		1
227	Deep Eutectic Solvents for Sustainable Separation Processes 2022 , 605-652		
226	Adsorption Processes for Seawater Desalination 2022 , 401-429		
225	Cellulose Nanofibers for Sustainable Separations 2022 , 563-589		
224	Toward Green Extraction Processes 2022 , 519-561		
223	Recovery of Solvents and Fine Chemicals 2022 , 483-518		
222	Sustainable Separations in the Chemical Engineering Curriculum 2022 , 731-740		
221	Separation Processes for Sustainable Produced Water Treatment and Management 2022 , 105-154		
220	Flow Technologies for Efficient Separations 2022 , 239-259		
219	The Role of Chemical Looping in Industrial Gas Separation 2022 , 199-237		
218	Membrane-Enabled Sustainable Biofuel Production 2022 , 343-365		

217	Growing single crystals of two-dimensional covalent organic frameworks enabled by intermediate tracing study.. <i>Nature Communications</i> , 2022 , 13, 1370	17.4	6
216	Recycling of Lithium Batteries 2022 , 591-603		
215	Janus Membranes for Water Purification and Gas Separation 2022 , 367-400		
214	Sustainable Distillation Processes 2022 , 431-481		
213	Sustainable Features of Centrifugal Partition Chromatography 2022 , 261-295		
212	Electrochemically Mediated Sustainable Separations in Water 2022 , 1-62		
211	Applications of Ultrasound in Separation Processes 2022 , 155-197		
210	Sustainable Separations Using Organic Solvent Nanofiltration 2022 , 697-729		0
209	Green and Sustainable Extraction of High-Value Compounds 2022 , 63-104		
208	Covalent organic framework film protected zinc anode for highly stable rechargeable aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , 2022 , 48, 82-89	19.4	5
207	The preparation and characterization of gel-mixed matrix membranes (g-MMMs) with high CO ₂ permeability and stability performance. <i>Journal of Membrane Science</i> , 2022 , 652, 120471	9.6	1
206	Evaluation of Schiff-Base Covalent Organic Frameworks for CO ₂ Capture: Structure-Performance Relationships, Stability, and Performance under Wet Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 332-341	8.3	10
205	A breathing A4 paper by in situ growth of green metal-organic frameworks for air freshening and cleaning. <i>Chinese Journal of Chemical Engineering</i> , 2021 ,	3.2	1
204	A three-dimensional manganese(II) coordination polymer with two functional properties: magnetism and photochemical detection. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2021 , 77, 782-789	0.8	
203	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
202	Pressure-Responsive Two-Dimensional Metal-Organic Framework Composite Membranes for CO ₂ Separation. <i>Angewandte Chemie</i> , 2021 , 133, 11419-11426	3.6	5
201	Pressure-Responsive Two-Dimensional Metal-Organic Framework Composite Membranes for CO Separation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11318-11325	16.4	22
200	Molecular-Rotor-Driven Advanced Porous Materials. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16279-16292	16.4	5

199	Molecular-Rotor-Driven Advanced Porous Materials. <i>Angewandte Chemie</i> , 2021 , 133, 16415-16428	3.6	1
198	Innenrücktitelbild: Pressure-Responsive Two-Dimensional Metal-Organic Framework Composite Membranes for CO ₂ Separation (Angew. Chem. 20/2021). <i>Angewandte Chemie</i> , 2021 , 133, 11635-11635	3.6	1
197	Solution-Processable Metal-Organic Framework Nanosheets with Variable Functionalities. <i>Advanced Materials</i> , 2021 , 33, e2101257	24	8
196	Optimal Pore Chemistry in an Ultramicroporous Metal-Organic Framework for Benchmark Inverse CO ₂ /C ₂ H ₂ Separation. <i>Angewandte Chemie</i> , 2021 , 133, 17335-17341	3.6	5
195	Tetrazole-Functionalized Zirconium Metal-Organic Cages for Efficient C ₂ H ₂ /C ₂ H ₄ and C ₂ H ₂ /CO ₂ Separations. <i>Angewandte Chemie</i> , 2021 , 133, 17478-17483	3.6	2
194	Tailorable infrared emission of microelectromechanical system-based thermal emitters with NiO films for gas sensing. <i>Optics Express</i> , 2021 , 29, 19084-19093	3.3	3
193	Tetrazole-Functionalized Zirconium Metal-Organic Cages for Efficient C ₂ H ₂ /C ₂ H ₄ and C ₂ H ₂ /CO ₂ Separations. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17338-17343	16.4	17
192	Polycrystalline zeolite and metal-organic framework membranes for molecular separations. <i>Coordination Chemistry Reviews</i> , 2021 , 437, 213794	23.2	13
191	Optimal Pore Chemistry in an Ultramicroporous Metal-Organic Framework for Benchmark Inverse CO ₂ /C ₂ H ₂ Separation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17198-17204	16.4	27
190	Metal-organic frameworks for C ₆ H ₆ /C ₇ H ₈ hydrocarbon separations. <i>EnergyChem</i> , 2021 , 3, 100057	36.9	13
189	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
188	Tuning the release rate of volatile molecules by pore surface engineering in metal-organic frameworks. <i>Chinese Chemical Letters</i> , 2021 , 32, 1988-1992	8.1	7
187	Heterogeneous postassembly modification of zirconium metal-organic cages in supramolecular frameworks. <i>Chemical Communications</i> , 2021 , 57, 6276-6279	5.8	4
186	Adsorbed Natural Gas Storage for Onboard Applications. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2000209	20.9	1
185	Thin-Film Nanocomposite Membranes Containing Water-Stable Zirconium Metal-Organic Cages for Desalination 2021 , 3, 268-274		19
184	Is Porosity at the MOF/Polymer Interface Necessarily an Obstacle to Optimal Gas-Separation Performances in Mixed Matrix Membranes? 2021 , 3, 344-350		8
183	Metal-Organic Frameworks: Solution-Processable Metal-Organic Framework Nanosheets with Variable Functionalities (Adv. Mater. 29/2021). <i>Advanced Materials</i> , 2021 , 33, 2170228	24	0
182	Heating-driven assembly of covalent organic framework nanosheets for gas separation. <i>Journal of Membrane Science</i> , 2021 , 632, 119326	9.6	11

181	Ultrathin covalent organic framework film as membrane gutter layer for high-permeance CO ₂ capture. <i>Journal of Membrane Science</i> , 2021 , 632, 119384	9.6	14
180	Ultrathin Covalent Organic Framework Membranes via a Multi-Interfacial Engineering Strategy for Gas Separation. <i>Advanced Materials</i> , 2021 , e2104946	24	12
179	Homoporous hybrid membranes containing metal-organic cages for gas separation. <i>Journal of Membrane Science</i> , 2021 , 636, 119564	9.6	7
178	Biogas upgrading and valorization to single-cell protein in a bioinorganic electrosynthesis system. <i>Chemical Engineering Journal</i> , 2021 , 426, 131837	14.7	2
177	Stabilization of lithium metal anodes by conductive metal-organic framework architectures. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 12099-12108	13	2
176	The chemistry and applications of hafnium and cerium(iv) metal-organic frameworks. <i>Chemical Society Reviews</i> , 2021 , 50, 4629-4683	58.5	41
175	Metal-Organic Framework Based Gas Sensors.. <i>Advanced Science</i> , 2021 , e2104374	13.6	18
174	Chip-Level Integration of Covalent Organic Frameworks for Trace Benzene Sensing. <i>ACS Sensors</i> , 2020 , 5, 1474-1481	9.2	25
173	Polycrystalline rare-earth metal-organic framework membranes with in-situ healing ability for efficient alcohol dehydration. <i>Journal of Membrane Science</i> , 2020 , 610, 118239	9.6	13
172	Mechano-assisted synthesis of an ultramicroporous metal-organic framework for trace CO capture. <i>Chemical Communications</i> , 2020 , 56, 7726-7729	5.8	24
171	Accelerated Formation Kinetics of a Multicomponent Metal-Organic Framework Derived from Preferential Site Occupancy. <i>Inorganic Chemistry</i> , 2020 , 59, 9350-9355	5.1	2
170	Rücktitelbild: Thermo-Responsive MOF/Polymer Composites for Temperature-Mediated Water Capture and Release (Angew. Chem. 27/2020). <i>Angewandte Chemie</i> , 2020 , 132, 11253-11253	3.6	
169	Interlayer Shifting in Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12995-13002	16.4	40
168	Thermo-Responsive MOF/Polymer Composites for Temperature-Mediated Water Capture and Release. <i>Angewandte Chemie</i> , 2020 , 132, 11096-11102	3.6	9
167	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
166	Multiscale Design of Flexible Metal-Organic Frameworks. <i>Trends in Chemistry</i> , 2020 , 2, 199-213	14.8	17
165	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
164	Two-Dimensional Membranes: New Paradigms for High-Performance Separation Membranes. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2241-2270	4.5	17

163	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
162	Metal-Organic Frameworks (MOFs)-boosted filtration membrane technology for water sustainability. <i>APL Materials</i> , 2020 , 8, 040902	5.7	28
161	Self-Assembly of Highly Stable Zirconium(IV) Coordination Cages with Aggregation Induced Emission Molecular Rotors for Live-Cell Imaging. <i>Angewandte Chemie</i> , 2020 , 132, 10237-10245	3.6	8
160	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
159	Cobalt-containing covalent organic frameworks for visible light-driven hydrogen evolution. <i>Science China Chemistry</i> , 2020 , 63, 192-197	7.9	21
158	Porous organic cages as synthetic water channels. <i>Nature Communications</i> , 2020 , 11, 4927	17.4	17
157	Titelbild: Efficient Trapping of Trace Acetylene from Ethylene in an Ultramicroporous Metal-Organic Framework: Synergistic Effect of High-Density Open Metal and Electronegative Sites (Angew. Chem. 43/2020). <i>Angewandte Chemie</i> , 2020 , 132, 18981-18981	3.6	
156	Aggregation-Induced Emission-Responsive Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2020 , 32, 6706-6720	9.6	38
155	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
154	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
153	Synthesis and development of metal-organic frameworks 2020 , 3-43		4
152	On-Chip Template-Directed Conversion of Metal Hydroxides to Metal-Organic Framework Films with Enhanced Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36715-36722	9.5	5
151	Tying amines down for stable CO capture. <i>Science</i> , 2020 , 369, 372-373	33.3	12
150	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
149	Facile Synthesis of a Metal-Organic Framework for Removal of Methyl Blue from Water: First-Year Undergraduate Teaching Lab. <i>Journal of Chemical Education</i> , 2020 , 97, 4145-4151	2.4	2
148	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
147	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
146	Radiation Enhancement by Graphene Oxide on Microelectromechanical System Emitters for Highly Selective Gas Sensing. <i>ACS Sensors</i> , 2019 , 4, 2746-2753	9.2	12

145	Mechanical Properties of Shaped Metal-Organic Frameworks. <i>Topics in Current Chemistry</i> , 2019 , 377, 25	7.2	19
144	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
143	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
142	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
141	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
140	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	9.6	17
139	3D-Printing of Pure Metal-Organic Framework Monoliths 2019 , 1, 147-153		44
138	MOF-Derived Carbon Networks with Atomically Dispersed FeNx Sites for Oxygen Reduction Reaction Catalysis in Acidic Media 2019 , 1, 37-43		30
137	Alternatives to Cryogenic Distillation: Advanced Porous Materials in Adsorptive Light Olefin/Paraffin Separations. <i>Small</i> , 2019 , 15, e1900058	11	101
136	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
135	Solvent-Induced Control over Breathing Behavior in Flexible Metal-Organic Frameworks for Natural-Gas Delivery. <i>Angewandte Chemie</i> , 2019 , 131, 8157-8161	3.6	12
134	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
133	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
132	Biosensors: ZnO Nanosheets Abundant in Oxygen Vacancies Derived from Metal-Organic Frameworks for ppb-Level Gas Sensing (Adv. Mater. 11/2019). <i>Advanced Materials</i> , 2019 , 31, 1970076	24	6
131	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
130	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
129	Cluster nuclearity control and modulated hydrothermal synthesis of functionalized Zr metal-organic frameworks. <i>Dalton Transactions</i> , 2019 , 48, 7069-7073	4.3	20
128	Decorating Co/CoNx 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

127	Recent advances in POM-organic frameworks and POM-organic polyhedra. <i>Coordination Chemistry Reviews</i> , 2019 , 397, 220-240	23.2	102
126	On-Chip Tailorability of Capacitive Gas Sensors Integrated with Metal-Organic Framework Films. <i>Angewandte Chemie</i> , 2019 , 131, 14227-14232	3.6	10
125	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
124	Titelbild: On-Chip Tailorability of Capacitive Gas Sensors Integrated with Metal-Organic Framework Films (Angew. Chem. 40/2019). <i>Angewandte Chemie</i> , 2019 , 131, 14137-14137	3.6	
123	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
122	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
121	Selective Gas Permeation in Mixed Matrix Membranes Accelerated by Hollow Ionic Covalent Organic Polymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1564-1573	8.3	11
120	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
119	Bio-Inspired Robust Membranes Nanoengineered from Interpenetrating Polymer Networks of Polybenzimidazole/Polydopamine. <i>ACS Nano</i> , 2019 , 13, 125-133	16.7	78
118	CO ₂ Capture in Metal-Organic Framework Adsorbents: An Engineering Perspective. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800080	5.9	153
117	Novel photo-functional material based on homo-metallic cyanide bridged nickel coordination polymer and titania for hydrogen generation. <i>Inorganica Chimica Acta</i> , 2019 , 486, 684-693	2.7	2
116	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
115	Adsorption-Based CO ₂ Capture: CO ₂ Capture in Metal-Organic Framework Adsorbents: An Engineering Perspective (Adv. Sustainable Syst. 1/2019). <i>Advanced Sustainable Systems</i> , 2019 , 3, 1970002	5.9	3
114	Scalable and Sustainable Synthesis of Advanced Porous Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3647-3670	8.3	41
113	Encapsulation and controlled release of fragrances from functionalized porous metal-organic frameworks. <i>AIChE Journal</i> , 2019 , 65, 491-499	3.6	27
112	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
111	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
110	Mixed Matrix Membranes for Natural Gas Upgrading: Current Status and Opportunities. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4139-4169	3.9	76

109	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
108	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
107	Zn-Air Batteries: Web-Like Interconnected Carbon Networks from NaCl-Assisted Pyrolysis of ZIF-8 for Highly Efficient Oxygen Reduction Catalysis (Small 16/2018). <i>Small</i> , 2018 , 14, 1870070	11	4
106	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
105	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
104	Solution-reprocessable microporous polymeric adsorbents for carbon dioxide capture. <i>AIChE Journal</i> , 2018 , 64, 3376-3389	3.6	7
103	Metal-Organic Frameworks Based Heterogeneous Catalysts for Biomass Conversion. <i>Series on Chemistry, Energy and the Environment</i> , 2018 , 495-518	0.2	1
102	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
101	Covalent organic nanosheets with large lateral size and high aspect ratio synthesized by Langmuir-Blodgett method. <i>Chinese Chemical Letters</i> , 2018 , 29, 869-872	8.1	10
100	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
99	Advanced Porous Materials in Mixed Matrix Membranes. <i>Advanced Materials</i> , 2018 , 30, e1802401	24	141
98	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
97	Membrane Technology: Advanced Porous Materials in Mixed Matrix Membranes (Adv. Mater. 47/2018). <i>Advanced Materials</i> , 2018 , 30, 1870355	24	4
96	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
95	In Situ Formation of Micropore-Rich Titanium Dioxide from Metal-Organic Framework Templates. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36933-36940	9.5	8
94	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
93	Ni-Doped Cobalt-Cobalt Nitride Heterostructure Arrays for High-Power Supercapacitors. <i>ACS Energy Letters</i> , 2018 , 3, 2462-2469	20.1	129
92	Hydrazone-based covalent organic frameworks for Lewis acid catalysis. <i>Dalton Transactions</i> , 2018 , 47, 13824-13829	4.3	23

91	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
90	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
89	A two-dimensional conjugated aromatic polymer via C-C coupling reaction. <i>Nature Chemistry</i> , 2017 , 9, 563-570	17.6	243
88	Metal-Organic frameworks with Lewis acidity: synthesis, characterization, and catalytic applications. <i>CrystEngComm</i> , 2017 , 19, 4066-4081	3.3	154
87	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
86	Ambient temperature hydrogen storage in porous materials with exposed metal sites. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 6801-6809	6.7	13
85	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
84	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
83	Silver-Decorated Hafnium Metal-Organic Framework for Ethylene/Ethane Separation. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4508-4516	3.9	44
82	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
81	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
80	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
79	Isorecticular covalent organic frameworks for hydrocarbon uptake and separation: the important role of monomer planarity. <i>CrystEngComm</i> , 2017 , 19, 4899-4904	3.3	55
78	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
77	Ultrathin two-dimensional porous organic nanosheets with molecular rotors for chemical sensing. <i>Nature Communications</i> , 2017 , 8, 1142	17.4	119
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