Mohamed Eddaoudi

List of Publications by Year in Descending Order

279 papers	64,932 citations	93 h-index	254 g-index
309 ext. papers	70,894 ext. citations	13.1 avg, IF	7.76 L-index

#	Paper	IF	Citations
279	Optimizing Host□Guest Selectivity for Ethylbenzene Capture Toward Superior Styrene Purification. *Chemistry of Materials*, **2022**, 34, 197-202	9.6	0
278	Energy Transfer in Metal-Organic Frameworks for Fluorescence Sensing.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	15
277	Rational design of mixed-matrix metal-organic framework membranes for molecular separations. *Science*, **2022**, 376, 1080-1087	33.3	18
276	High-Capacity NH Charge Storage in Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2021**, 143, 19178-19186	16.4	21
275	Ultrafast Aggregation-Induced Tunable Emission Enhancement in a Benzothiadiazole-Based Fluorescent Metal-Organic Framework Linker. *Journal of Physical Chemistry B*, **2021**, 125, 13298-13308	3.4	2
274	Nearly 100% energy transfer at the interface of metal-organic frameworks for X-ray imaging scintillators. *Matter*, **2021**,	12.7	15
273	Unusual design strategy for a stable and soluble high-molecular-weight copper(I) arylacetylide polymer. *Chemical Communications*, **2021**, 57, 12004-12007	5.8	1
272	Metal-Organic Frameworks Characterization via Inverse Pulse Gas Chromatography. *Applied Sciences (Switzerland)*, **2021**, 11, 10243	2.6	1
271	A reticular chemistry guide for the design of periodic solids. *Nature Reviews Materials*, **2021**, 6, 466-487	73.3	36
270	[Ag(1,2-BDT)]: How Square-Pyramidal Building Blocks Self-Assemble into the Smallest Silver Nanocluster. *Inorganic Chemistry*, **2021**, 60, 4306-4312	5.1	3
269	[Cu (PPh) (PET)] : a Copper Nanocluster with Crystallization Enhanced Photoluminescence. *Small*, **2021**, 17, e2006839	11	10
268	Adsorptive Molecular Sieving of Styrene over Ethylbenzene by Trianglimine Crystals. *Journal of the American Chemical Society*, **2021**, 143, 4090-4094	16.4	16
267	Operando Elucidation on the Working State of Immobilized Fluorinated Iron Porphyrin for Selective Aqueous Electroreduction of CO2 to CO. *ACS Catalysis*, **2021**, 11, 6499-6509	13.1	6
266	Directional Exciton Migration in Benzoimidazole-Based Metal-Organic Frameworks. *Journal of Physical Chemistry Letters*, **2021**, 12, 4917-4927	6.4	4
265	Insights into the Enhancement of MOF/Polymer Adhesion in Mixed-Matrix Membranes Polymer Functionalization. *ACS Applied Materials & Interfaces*, **2021**, 13, 29041-29047	9.5	7
264	Penetrant competition and plasticization in membranes: How negatives can be positives in natural gas sweetening. *Journal of Membrane Science*, **2021**, 627, 119201	9.6	10
263	25 Jahre retikul□e Chemie. *Angewandte Chemie*, **2021**, 133, 24142	3.6	0

262	The Importance of Highly Connected Building Units in Reticular Chemistry: Thoughtful Design of Metal-Organic Frameworks. *Accounts of Chemical Research*, **2021**, 54, 3298-3312	24.3	16
261	Kinetic separation of C4 olefins using Y-fum-fcu-MOF with ultra-fine-tuned aperture size. *Chemical Engineering Journal*, **2021**, 413, 127388	14.7	6
260	Molecular recognition and adsorptive separation of -xylene by trianglimine crystals. *Chemical Communications*, **2021**, 57, 9124-9127	5.8	3
259	25 Years of Reticular Chemistry. *Angewandte Chemie - International Edition*, **2021**, 60, 23946-23974	16.4	50
258	Molecular Engineering of Covalent Organic Framework Cathodes for Enhanced Zinc-Ion Batteries. *Advanced Materials*, **2021**, 33, e2103617	24	31
257	Electrochemical synthesis of continuous metal□rganic framework membranes for separation of hydrocarbons. *Nature Energy*, **2021**, 6, 882-891	62.3	20
256	Efficient Splitting of Trans-/Cis-Olefins Using an Anion-Pillared Ultramicroporous Metal□rganic Framework with Guest-Adaptive Pore Channels. *Engineering*, **2021**,	9.7	1
255	Intermediate Binding Control Using Metal-Organic Frameworks Enhances Electrochemical CO Reduction. *Journal of the American Chemical Society*, **2020**, 142, 21513-21521	16.4	50
254	Fully Integrated Organic Field-Effect Transistor Platform to Detect and to Quantify NO2 Gas. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 2000086	2.5	14
253	Highly Selective Metal-Organic Framework Textile Humidity Sensor. *ACS Applied Materials & Interfaces*, **2020**, 12, 29999-30006	9.5	20
252	Nanoporous Fluorinated Metal□rganic Framework-Based Membranes for CO2 Capture. *ACS Applied Nano Materials*, **2020**, 3, 6432-6439	5.6	25
251	Phenanthroline Covalent Organic Framework Electrodes for High-Performance Zinc-Ion Supercapattery. *ACS Energy Letters*, **2020**, 5, 2256-2264	20.1	74
250	Topology Meets Reticular Chemistry for Chemical Separations: MOFs as a Case Study. *CheM*, **2020**, 6, 1613-1633	16.2	23
249	Molecular enhancement of heterogeneous CO reduction. *Nature Materials*, **2020**, 19, 266-276	27	195
248	Realization of an Ultrasensitive and Highly Selective OFET NO Sensor: The Synergistic Combination of PDVT-10 Polymer and Porphyrin-MOF. *ACS Applied Materials & Interfaces*, **2020**, 12, 18748-18760	9.5	45
247	Methanol and Humidity Capacitive Sensors Based on Thin Films of MOF Nanoparticles. *ACS Applied Materials & Interfaces*, **2020**, 12, 4155-4162	9.5	60
246	Made-to-order porous electrodes for supercapacitors: MOFs embedded with redox-active centers as a case study. *Chemical Communications*, **2020**, 56, 1883-1886	5.8	19
245	Toward New 2D Zirconium-Based Metal□rganic Frameworks: Synthesis, Structures, and Electronic Properties. *Chemistry of Materials*, **2020**, 32, 97-104	9.6	25

244	High-throughput screening of metal-organic frameworks for kinetic separation of propane and propene. *Physical Chemistry Chemical Physics*, **2020**, 22, 23073-23082	3.6	4
243	Quest for Zeolite-like Supramolecular Assemblies: Self-Assembly of Metal–Organic Squares via Directed Hydrogen Bonding. *Angewandte Chemie*, **2020**, 132, 19827-19830	3.6	0
242	Recent Progress on Microfine Design of Metal-Organic Frameworks: Structure Regulation and Gas Sorption and Separation. *Advanced Materials*, **2020**, 32, e2002563	24	65
241	Quest for an Optimal Methane Hydrate Formation in the Pores of Hydrolytically Stable Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2020**, 142, 13391-13397	16.4	33
240	Quest for Zeolite-like Supramolecular Assemblies: Self-Assembly of Metal-Organic Squares via Directed Hydrogen Bonding. *Angewandte Chemie - International Edition*, **2020**, 59, 19659-19662	16.4	8
239	Introducing a Cantellation Strategy for the Design of Mesoporous Zeolite-like Metal-Organic Frameworks: Zr-sod-ZMOFs as a Case Study. *Journal of the American Chemical Society*, **2020**, 142, 20547-20553	16.4	12
238	Differential guest location by host dynamics enhances propylene/propane separation in a metal-organic framework. *Nature Communications*, **2020**, 11, 6099	17.4	14
237	Solution processable metal-organic frameworks for mixed matrix membranes using porous liquids. *Nature Materials*, **2020**, 19, 1346-1353	27	78
236	Titelbild: A Polymorphic Azobenzene Cage for Energy-Efficient and Highly Selective p-Xylene Separation (Angew. Chem. 48/2020). *Angewandte Chemie*, **2020**, 132, 21433-21433	3.6	
235	Covalent Organic Frameworks as Negative Electrodes for High-Performance Asymmetric Supercapacitors. *Advanced Energy Materials*, **2020**, 10, 2001673	21.8	41
234	A Polymorphic Azobenzene Cage for Energy-Efficient and Highly Selective p-Xylene Separation. *Angewandte Chemie - International Edition*, **2020**, 59, 21367-21371	16.4	30
233	A Polymorphic Azobenzene Cage for Energy-Efficient and Highly Selective p-Xylene Separation. *Angewandte Chemie*, **2020**, 132, 21551-21555	3.6	4
232	assembled ZIF superstructures an emulsion-free soft-templating approach. *Chemical Science*, **2020**, 11, 11280-11284	9.4	10
231	Extension of Surface Organometallic Chemistry to Metal-Organic Frameworks: Development of a Well-Defined Single Site [(?Zr-O-)W(?O)(CHBu)] Olefin Metathesis Catalyst. *Journal of the American Chemical Society*, **2020**, 142, 16690-16703	16.4	19
230	A Titanium Metal-Organic Framework with Visible-Light-Responsive Photocatalytic Activity. *Angewandte Chemie - International Edition*, **2020**, 59, 13468-13472	16.4	33
229	Reticular Chemistry 3.2: Typical Minimal Edge-Transitive and Nets for the Design and Synthesis of Metal-Organic Frameworks. *Chemical Reviews*, **2020**, 120, 8039-8065	68.1	75
228	Access to Highly Efficient Energy Transfer in Metal-Organic Frameworks via Mixed Linkers Approach. *Journal of the American Chemical Society*, **2020**, 142, 8580-8584	16.4	34
227	Highly Efficient Rare-Earth-Based Metal–Organic Frameworks for Water Adsorption: A Molecular Modeling Approach. *Journal of Physical Chemistry C*, **2019**, 123, 26989-26999	3.8	12

226	Assembly of Atomically Precise Silver Nanoclusters into Nanocluster-Based Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 9585-9592	16.4	81
225	Imaging defects and their evolution in a metal-organic framework at sub-unit-cell resolution. *Nature Chemistry*, **2019**, 11, 622-628	17.6	211
224	Cyclodextrin-functionalized asymmetric block copolymer films as high-capacity reservoir for drug delivery. *Journal of Membrane Science*, **2019**, 584, 1-8	9.6	9
223	Unprecedented Ultralow Detection Limit of Amines using a Thiadiazole-Functionalized Zr(IV)-Based Metal-Organic Framework. *Journal of the American Chemical Society*, **2019**, 141, 7245-7249	16.4	139
222	Fluorinated MOF platform for selective removal and sensing of SO from flue gas and air. *Nature Communications*, **2019**, 10, 1328	17.4	164
221	A Tailor-Made Interpenetrated MOF with Exceptional Carbon-Capture Performance from Flue Gas. *CheM*, **2019**, 5, 950-963	16.2	68
220	Highly tunable sulfur hexafluoride separation by interpenetration control in metal organic frameworks. *Microporous and Mesoporous Materials*, **2019**, 281, 44-49	5.3	10
219	Conductive Metal□Organic Frameworks Selectively Grown on Laser-Scribed Graphene for Electrochemical Microsupercapacitors. *Advanced Energy Materials*, **2019**, 9, 1900482	21.8	104
218	Conformation-Controlled Molecular Sieving Effects for Membrane-Based Propylene/Propane Separation. *Advanced Materials*, **2019**, 31, e1807513	24	83
217	Computationally Assisted Assessment of the Metal-Organic Framework/Polymer Compatibility in Composites Integrating a Rigid Polymer. *Advanced Theory and Simulations*, **2019**, 2, 1900116	3.5	3
216	The Growth of Photoactive Porphyrin-Based MOF Thin Films Using the Liquid-Phase Epitaxy Approach and their Optoelectronic Properties. *Materials*, **2019**, 12,	3.5	6
215	Tunable Twisting Motion of Organic Linkers via Concentration and Hydrogen-Bond Formation. *Journal of Physical Chemistry C*, **2019**, 123, 5900-5906	3.8	10
214	Revisiting the water sorption isotherm of MOF using electrical measurements. *Chemical Communications*, **2019**, 55, 13251-13254	5.8	9
213	Enriching the Reticular Chemistry Repertoire with Minimal Edge-Transitive Related Nets: Access to Highly Coordinated Metal-Organic Frameworks Based on Double Six-Membered Rings as Net-Coded Building Units. *Journal of the American Chemical Society*, **2019**, 141, 20480-20489	16.4	28
212	MXene Derived Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 20037-20042	16.4	49
211	Polyoxometalate-Cyclodextrin Metal-Organic Frameworks: From Tunable Structure to Customized Storage Functionality. *Journal of the American Chemical Society*, **2019**, 141, 1847-1851	16.4	65
210	Extremely Hydrophobic POPs to Access Highly Porous Storage Media and Capturing Agent for Organic Vapors. *CheM*, **2019**, 5, 180-191	16.2	22
209	Hydrocarbon recovery using ultra-microporous fluorinated MOF platform with and without uncoordinated metal sites: I- structure properties relationships for C2H2/C2H4 and CO2/C2H2 separation. *Chemical Engineering Journal*, **2019**, 359, 32-36	14.7	47

208	Concurrent Sensing of CO and HO from Air Using Ultramicroporous Fluorinated Metal-Organic Frameworks: Effect of Transduction Mechanism on the Sensing Performance. *ACS Applied Materials & Interfaces*, **2019**, 11, 1706-1712	9.5	25
207	Resonant Gas Sensor and Switch Operating in Air With Metal-Organic Frameworks Coating. *Journal of Microelectromechanical Systems*, **2018**, 27, 156-163	2.5	19
206	Highly sensitive and selective SO2 MOF sensor: the integration of MFM-300 MOF as a sensitive layer on a capacitive interdigitated electrode. *Journal of Materials Chemistry A*, **2018**, 6, 5550-5554	13	92
205	Mixed matrix formulations with MOF molecular sieving for key energy-intensive separations. *Nature Materials*, **2018**, 17, 283-289	27	298
204	Reticular Chemistry in Action: A Hydrolytically Stable MOF Capturing Twice Its Weight in Adsorbed Water. *CheM*, **2018**, 4, 94-105	16.2	160
203	Tailoring the Crystal Structure of Nanoclusters Unveiled High Photoluminescence via Ion Pairing. *Chemistry of Materials*, **2018**, 30, 2719-2725	9.6	60
202	Zeolite-like Metal-Organic Framework (MOF) Encaged Pt(II)-Porphyrin for Anion-Selective Sensing. *ACS Applied Materials & Interfaces*, **2018**, 10, 11399-11405	9.5	56
201	Methane Storage in Metal-Organic Frameworks: Insights into the Storage Performance and the Intrinsic Property Relationships for Enhanced Adsorbed Natural Gas Storage. *Series on Chemistry, Energy and the Environment*, **2018**, 207-246	0.2	1
200	Upgrading gasoline to high octane numbers using a zeolite-like metal-organic framework molecular sieve with ana-topology. *Chemical Communications*, **2018**, 54, 9414-9417	5.8	15
199	Enhanced CO/CH Separation Performance of a Mixed Matrix Membrane Based on Tailored MOF-Polymer Formulations. *Advanced Science*, **2018**, 5, 1800982	13.6	67
198	Carbonization of covalent triazine-based frameworks via ionic liquid induction. *Journal of Materials Chemistry A*, **2018**, 6, 15564-15568	13	8
197	Metal-Organic Frameworks Mediate Cu Coordination for Selective CO Electroreduction. *Journal of the American Chemical Society*, **2018**, 140, 11378-11386	16.4	188
196	Zeolite-like MOF nanocrystals incorporated 6FDA-polyimide mixed-matrix membranes for CO2/CH4 separation. *Journal of Membrane Science*, **2018**, 565, 186-193	9.6	44
195	Metal-Organic Framework Thin Films on High-Curvature Nanostructures Toward Tandem Electrocatalysis. *ACS Applied Materials & Interfaces*, **2018**, 10, 31225-31232	9.5	30
194	Enriching the Reticular Chemistry Repertoire: Merged Nets Approach for the Rational Design of Intricate Mixed-Linker Metal-Organic Framework Platforms. *Journal of the American Chemical Society*, **2018**, 140, 8858-8867	16.4	91
193	The quest for highly sensitive QCM humidity sensors: The coating of CNT/MOF composite sensing films as case study. *Sensors and Actuators B: Chemical*, **2018**, 257, 609-619	8.5	88
192	Smart Gas Sensing and Actuation Using Multimode of a MOFs Coated Microbeam **2018**,		1
191	A Comparative Study of Interdigitated Electrode and Quartz Crystal Microbalance Transduction Techniques for Metal?Organic Framework-Based Acetone Sensors. *Sensors*, **2018**, 18,	3.8	24

190	Advances in Shaping of Metal Organic Frameworks for CO2 Capture: Understanding the Effect of Rubbery and Glassy Polymeric Binders. *Industrial & Engineering Chemistry Research*, **2018**, 57, 16897-16902	3.9	22
189	Metal Organic Framework Membranes: From Fabrication to Gas Separation. *Crystals*, **2018**, 8, 412	2.3	38
188	Enhanced Separation of Butane Isomers via Defect Control in a Fumarate/Zirconium-Based Metal Organic Framework. *Langmuir*, **2018**, 34, 14546-14551	4	30
187	**2018**,		2
186	Multimode excitation of a metal organics frameworks coated microbeam for smart gas sensing and actuation. *Sensors and Actuators A: Physical*, **2018**, 283, 254-262	3.9	13
185	Trianglamine-Based Supramolecular Organic Framework with Permanent Intrinsic Porosity and Tunable Selectivity. *Journal of the American Chemical Society*, **2018**, 140, 14571-14575	16.4	46
184	Layered MgxV2O5 nH2O as Cathode Material for High-Performance Aqueous Zinc Ion Batteries. *ACS Energy Letters*, **2018**, 3, 2602-2609	20.1	381
183	Natural gas upgrading using a fluorinated MOF with tuned H2S and CO2 adsorption selectivity. *Nature Energy*, **2018**, 3, 1059-1066	62.3	123
182	Achieving Superprotonic Conduction with a 2D Fluorinated Metal-Organic Framework. *Journal of the American Chemical Society*, **2018**, 140, 13156-13160	16.4	74
181	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H S and CO from Natural Gas. *Angewandte Chemie - International Edition*, **2018**, 57, 14811-14816	16.4	111
180	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H2S and CO2 from Natural Gas. *Angewandte Chemie*, **2018**, 130, 15027-15032	3.6	10
179	Nanosheets of Nonlayered Aluminum Metal-Organic Frameworks through a Surfactant-Assisted Method. *Advanced Materials*, **2018**, 30, e1707234	24	80
178	Topology meets MOF chemistry for pore-aperture fine tuning: ftw-MOF platform for energy-efficient separations via adsorption kinetics or molecular sieving. *Chemical Communications*, **2018**, 54, 6404-6407	5.8	44
177	Peculiar Molecular Shape and Size Dependence of the Dynamics of Fluids Confined in a Small-Pore Metal-Organic Framework. *Journal of Physical Chemistry Letters*, **2018**, 9, 3014-3020	6.4	6
176	Metal organic frameworks to satisfy gas upgrading demands: fine-tuning the soc-MOF platform for the operative removal of H2S. *Journal of Materials Chemistry A*, **2017**, 5, 3293-3303	13	76
175	Doping-Induced Anisotropic Self-Assembly of Silver Icosahedra in [PtAgCl(PPh)] Nanoclusters. *Journal of the American Chemical Society*, **2017**, 139, 1053-1056	16.4	67
174	Applying the Power of Reticular Chemistry to Finding the Missing alb-MOF Platform Based on the (6,12)-Coordinated Edge-Transitive Net. *Journal of the American Chemical Society*, **2017**, 139, 3265-3274	16.4	84
173	Metal-organic frameworks for H and CH storage: insights on the pore geometry-sorption energetics relationship. *IUCrJ*, **2017**, 4, 131-135	4.7	29

172	Liquid phase epitaxial growth of heterostructured hierarchical MOF thin films. *Chemical Communications*, **2017**, 53, 6191-6194	5.8	43
171	Isoreticular rare earth fcu -MOFs for the selective removal of H 2 S from CO 2 containing gases. *Chemical Engineering Journal*, **2017**, 324, 392-396	14.7	73
170	Hydrolytically stable fluorinated metal-organic frameworks for energy-efficient dehydration. *Science*, **2017**, 356, 731-735	33.3	209
169	Structure directing agents induced morphology evolution and phase transition from indium-based rho- to sod-ZMOF. *CrystEngComm*, **2017**, 19, 4265-4268	3.3	10
168	Gas/vapour separation using ultra-microporous metal-organic frameworks: insights into the structure/separation relationship. *Chemical Society Reviews*, **2017**, 46, 3402-3430	58.5	791
167	Minimal edge-transitive nets for the design and construction of metal-organic frameworks. *Faraday Discussions*, **2017**, 201, 127-143	3.6	26
166	Temperature-Induced Lattice Relaxation of Perovskite Crystal Enhances Optoelectronic Properties and Solar Cell Performance. *Journal of Physical Chemistry Letters*, **2017**, 8, 137-143	6.4	32
165	CO2 Capture Using the SIFSIX-2-Cu-i Metal□Organic Framework: A Computational Approach. *Journal of Physical Chemistry C*, **2017**, 121, 27462-27472	3.8	9
164	A Fine-Tuned MOF for Gas and Vapor Separation: A Multipurpose Adsorbent for Acid Gas Removal, Dehydration, and BTX Sieving. *CheM*, **2017**, 3, 822-833	16.2	62
163	Valuing Metal-Organic Frameworks for Postcombustion Carbon Capture: A Benchmark Study for Evaluating Physical Adsorbents. *Advanced Materials*, **2017**, 29, 1702953	24	70
162	Electronic, magnetic and photophysical properties of MOFs and COFs: general discussion. *Faraday Discussions*, **2017**, 201, 87-99	3.6	5
161	New directions in gas sorption and separation with MOFs: general discussion. *Faraday Discussions*, **2017**, 201, 175-194	3.6	6
160	Catalysis in MOFs: general discussion. *Faraday Discussions*, **2017**, 201, 369-394	3.6	12
159	Metal□Organic Framework-Based Separators for Enhancing Li□S Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. *ACS Energy Letters*, **2017**, 2, 2362-2367	20.1	160
158	CsPb Br Single Crystals: Synthesis and Characterization. *ChemSusChem*, **2017**, 10, 3746-3749	8.3	93
157	MOFs for the Sensitive Detection of Ammonia: Deployment of fcu-MOF Thin Films as Effective Chemical Capacitive Sensors. *ACS Sensors*, **2017**, 2, 1294-1301	9.2	147
156	Tuning Gas Adsorption Properties of Zeolite-like Supramolecular Assemblies with gis Topology via Functionalization of Isoreticular Metal-Organic Squares. *ACS Applied Materials & Interfaces*, **2017**, 9, 33521-33527	9.5	21
155	A Fine-Tuned Metal-Organic Framework for Autonomous Indoor Moisture Control. *Journal of the American Chemical Society*, **2017**, 139, 10715-10722	16.4	150

154	Supramolecular Self-Assembly of Histidine-Capped-Dialkoxy-Anthracene: A Visible-Light-Triggered Platform for Facile siRNA Delivery. *Chemistry - A European Journal*, **2016**, 22, 13789-13793	4.8	11
153	Solvent-Controlled Assembly of Ionic Metal□Organic Frameworks Based on Indium and Tetracarboxylate Ligand: Topology Variety and Gas Sorption Properties. *Crystal Growth and Design*, **2016**, 16, 5554-5562	3.5	40
152	Advanced Fabrication Method for the Preparation of MOF Thin Films: Liquid-Phase Epitaxy Approach Meets Spin Coating Method. *ACS Applied Materials & Interfaces*, **2016**, 8, 20459-64	9.5	119
151	[Ag(SPhMe)(PPh)]: Synthesis, Total Structure, and Optical Properties of a Large Box-Shaped Silver Nanocluster. *Journal of the American Chemical Society*, **2016**, 138, 14727-14732	16.4	138
150	From an equilibrium based MOF adsorbent to a kinetic selective carbon molecular sieve for paraffin/iso-paraffin separation. *Chemical Communications*, **2016**, 52, 13897-13900	5.8	26
149	H S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode. *Angewandte Chemie - International Edition*, **2016**, 55, 15879-15883	16.4	172
148	Reticular Synthesis of HKUST-like tbo-MOFs with Enhanced CH4 Storage. *Journal of the American Chemical Society*, **2016**, 138, 1568-74	16.4	164
147	Host-Guest Chirality Interplay: A Mutually Induced Formation of a Chiral ZMOF and Its Double-Helix Polymer Guests. *Journal of the American Chemical Society*, **2016**, 138, 786-9	16.4	93
146	Supramolecular Isomers of Metal□Organic Frameworks Derived from a Partially Flexible Ligand with Distinct Binding Motifs. *Crystal Growth and Design*, **2016**, 16, 722-727	3.5	25
145	Nonlinear-Based MEMS Sensors and Active Switches for Gas Detection. *Sensors*, **2016**, 16,	3.8	31
144	A metal-organic framework-based splitter for separating propylene from propane. *Science*, **2016**, 353, 137-40	33.3	654
143	A Fine-Tuned Fluorinated MOF Addresses the Needs for Trace CO2 Removal and Air Capture Using Physisorption. *Journal of the American Chemical Society*, **2016**, 138, 9301-7	16.4	244
142	Synthesis of highly monodispersed Ga-soc-MOF hollow cubes, colloidosomes and nanocomposites. *Chemical Communications*, **2016**, 52, 9901-4	5.8	41
141	A nafion coated capacitive humidity sensor on a flexible PET substrate **2016**,		5
140	A smart microelectromechanical sensor and switch triggered by gas. *Applied Physics Letters*, **2016**, 109, 013502	3.4	26
139	H2S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode. *Angewandte Chemie*, **2016**, 128, 16111-16115	3.6	26
138	R□ktitelbild: H2S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode (Angew. Chem. 51/2016). *Angewandte Chemie*, **2016**, 128, 16162-16162	3.6	1
137	CO2 conversion: the potential of porous-organic polymers (POPs) for catalytic CO2□poxide insertion. *Journal of Materials Chemistry A*, **2016**, 4, 7453-7460	13	87

136	Low concentration CO2 capture using physical adsorbents: Are metal□organic frameworks becoming the new benchmark materials?. *Chemical Engineering Journal*, **2016**, 296, 386-397	14.7	206
135	Reticular Chemistry at Its Best: Directed Assembly of Hexagonal Building Units into the Awaited Metal-Organic Framework with the Intricate Polybenzene Topology, pbz-MOF. *Journal of the American Chemical Society*, **2016**, 138, 12767-12770	16.4	80
134	A unique 3D ultramicroporous triptycene-based polyimide framework for efficient gas sorption applications. *RSC Advances*, **2016**, 6, 97560-97565	3.7	16
133	Gaining Insights on the H2S□orbent Interactions: Robust soc-MOF Platform as a Case Study. *Chemistry of Materials*, **2016**, 28, 7353-7361	9.6	30
132	A supermolecular building layer approach for gas separation and storage applications: the eea and rtl MOF platforms for CO2 capture and hydrocarbon separation. *Journal of Materials Chemistry A*, **2015**, 3, 6276-6281	13	97
131	Remote Stabilization of Copper Paddlewheel Based Molecular Building Blocks in Metal□Organic Frameworks. *Chemistry of Materials*, **2015**, 27, 2144-2151	9.6	64
130	A facile solvent-free synthesis route for the assembly of a highly CO2 selective and H2S tolerant NiSIFSIX metal-organic framework. *Chemical Communications*, **2015**, 51, 13595-8	5.8	102
129	Ag29(BDT)12(TPP)4: A Tetravalent Nanocluster. *Journal of the American Chemical Society*, **2015**, 137, 11970-5	16.4	284
128	Versatile rare earth hexanuclear clusters for the design and synthesis of highly-connected -MOFs. *Chemical Science*, **2015**, 6, 4095-4102	9.4	103
127	Tunable Rare Earth fcu-MOF Platform: Access to Adsorption Kinetics Driven Gas/Vapor Separations via Pore Size Contraction. *Journal of the American Chemical Society*, **2015**, 137, 5034-40	16.4	261
126	Quest for highly connected metal-organic framework platforms: rare-earth polynuclear clusters versatility meets net topology needs. *Journal of the American Chemical Society*, **2015**, 137, 5421-30	16.4	135
125	MOF Crystal Chemistry Paving the Way to Gas Storage Needs: Aluminum-Based soc-MOF for CH4, O2, and CO2 Storage. *Journal of the American Chemical Society*, **2015**, 137, 13308-18	16.4	475
124	Zeolite-like metal-organic frameworks (ZMOFs): design, synthesis, and properties. *Chemical Society Reviews*, **2015**, 44, 228-49	58.5	573
123	Fabrication and non-covalent modification of highly oriented thin films of a zeolite-like metal□organic framework (ZMOF) with rho topology. *CrystEngComm*, **2015**, 17, 290-294	3.3	15
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