

# Youssef Belmabkhout

## List of Publications by Citations

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116  
papers

14,420  
citations

67  
h-index

120  
g-index

124  
ext. papers

16,480  
ext. citations

11.2  
avg, IF

6.81  
L-index

#	Paper	IF	Citations
116	Porous materials with optimal adsorption thermodynamics and kinetics for CO <sub>2</sub> separation. <i>Nature</i> , <b>2013</b> , 495, 80-4	50.4	1677
115	Gas/vapour separation using ultra-microporous metal-organic frameworks: insights into the structure/separation relationship. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 3402-3430	58.5	791
114	A metal-organic framework-based splitter for separating propylene from propane. <i>Science</i> , <b>2016</b> , 353, 137-40	33.3	654
113	MOF Crystal Chemistry Paving the Way to Gas Storage Needs: Aluminum-Based soc-MOF for CH <sub>4</sub> , O <sub>2</sub> , and CO <sub>2</sub> Storage. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 13308-18	16.4	475
112	Stabilization of amine-containing CO <sub>2</sub> adsorbents: dramatic effect of water vapor. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 6312-4	16.4	473
111	Tunable rare-earth fcu-MOFs: a platform for systematic enhancement of CO <sub>2</sub> adsorption energetics and uptake. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 7660-7	16.4	406
110	Flue gas treatment via CO <sub>2</sub> adsorption. <i>Chemical Engineering Journal</i> , <b>2011</b> , 171, 760-774	14.7	398
109	Made-to-order metal-organic frameworks for trace carbon dioxide removal and air capture. <i>Nature Communications</i> , <b>2014</b> , 5, 4228	17.4	382
108	Discovery and introduction of a (3,18)-connected net as an ideal blueprint for the design of metal-organic frameworks. <i>Nature Chemistry</i> , <b>2014</b> , 6, 673-80	17.6	333
107	Mixed matrix formulations with MOF molecular sieving for key energy-intensive separations. <i>Nature Materials</i> , <b>2018</b> , 17, 283-289	27	298
106	Polyethylenimine-impregnated mesoporous silica: effect of amine loading and surface alkyl chains on CO <sub>2</sub> adsorption. <i>Langmuir</i> , <b>2011</b> , 27, 12411-6	4	269
105	Tunable Rare Earth fcu-MOF Platform: Access to Adsorption Kinetics Driven Gas/Vapor Separations via Pore Size Contraction. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5034-40	16.4	261
104	Effect of pore expansion and amine functionalization of mesoporous silica on CO <sub>2</sub> adsorption over a wide range of conditions. <i>Adsorption</i> , <b>2009</b> , 15, 318-328	2.6	252
103	A Fine-Tuned Fluorinated MOF Addresses the Needs for Trace CO <sub>2</sub> Removal and Air Capture Using Physisorption. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 9301-7	16.4	244
102	Synthesis and integration of Fe-soc-MOF cubes into colloidosomes via a single-step emulsion-based approach. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 10234-7	16.4	228
101	Adsorption of CO <sub>2</sub> -Containing Gas Mixtures over Amine-Bearing Pore-Expanded MCM-41 Silica: Application for Gas Purification. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 359-365	3.9	218
100	Imaging defects and their evolution in a metal-organic framework at sub-unit-cell resolution. <i>Nature Chemistry</i> , <b>2019</b> , 11, 622-628	17.6	211

99	Hydrolytically stable fluorinated metal-organic frameworks for energy-efficient dehydration. <i>Science</i> , <b>2017</b> , 356, 731-735	33.3	209
98	Low concentration CO <sub>2</sub> capture using physical adsorbents: Are metal-organic frameworks becoming the new benchmark materials?. <i>Chemical Engineering Journal</i> , <b>2016</b> , 296, 386-397	14.7	206
97	Amine-bearing mesoporous silica for CO <sub>2</sub> removal from dry and humid air. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 3695-3698	4.4	192
96	Ultra-Tuning of the Rare-Earth fcu-MOF Aperture Size for Selective Molecular Exclusion of Branched Paraffins. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14353-8	16.4	174
95	H <sub>2</sub> S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 15879-15883	16.4	172
94	Fluorinated MOF platform for selective removal and sensing of SO <sub>2</sub> from flue gas and air. <i>Nature Communications</i> , <b>2019</b> , 10, 1328	17.4	164
93	Reticular Synthesis of HKUST-like tbo-MOFs with Enhanced CH <sub>4</sub> Storage. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 1568-74	16.4	164
92	Synthesis and Gas Transport Properties of Hydroxyl-Functionalized Polyimides with Intrinsic Microporosity. <i>Macromolecules</i> , <b>2012</b> , 45, 3841-3849	5.5	163
91	Reticular Chemistry in Action: A Hydrolytically Stable MOF Capturing Twice Its Weight in Adsorbed Water. <i>Chem</i> , <b>2018</b> , 4, 94-105	16.2	160
90	Adsorption of CO <sub>2</sub> from dry gases on MCM-41 silica at ambient temperature and high pressure. 1: Pure CO <sub>2</sub> adsorption. <i>Chemical Engineering Science</i> , <b>2009</b> , 64, 3721-3728	4.4	159
89	The unique rht-MOF platform, ideal for pinpointing the functionalization and CO <sub>2</sub> adsorption relationship. <i>Chemical Communications</i> , <b>2012</b> , 48, 1455-7	5.8	154
88	CO <sub>2</sub> deactivation of supported amines: does the nature of amine matter?. <i>Langmuir</i> , <b>2012</b> , 28, 4241-7	4	152
87	A Fine-Tuned Metal-Organic Framework for Autonomous Indoor Moisture Control. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 10715-10722	16.4	150
86	Amine-bearing mesoporous silica for CO <sub>2</sub> and H <sub>2</sub> S removal from natural gas and biogas. <i>Langmuir</i> , <b>2009</b> , 25, 13275-8	4	147
85	Modeling CO <sub>2</sub> adsorption on amine-functionalized mesoporous silica: 1. A semi-empirical equilibrium model. <i>Chemical Engineering Journal</i> , <b>2010</b> , 161, 173-181	14.7	144
84	The liquid phase epitaxy approach for the successful construction of ultra-thin and defect-free ZIF-8 membranes: pure and mixed gas transport study. <i>Chemical Communications</i> , <b>2014</b> , 50, 2089-92	5.8	141
83	Quest for highly connected metal-organic framework platforms: rare-earth polynuclear clusters versatility meets net topology needs. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5421-30	16.4	135
82	Further investigations of CO <sub>2</sub> capture using triamine-grafted pore-expanded mesoporous silica. <i>Chemical Engineering Journal</i> , <b>2010</b> , 158, 513-519	14.7	131

81	Adsorption of CO <sub>2</sub> from dry gases on MCM-41 silica at ambient temperature and high pressure. 2: Adsorption of CO <sub>2</sub> /N <sub>2</sub> , CO <sub>2</sub> /CH <sub>4</sub> and CO <sub>2</sub> /H <sub>2</sub> binary mixtures. <i>Chemical Engineering Science</i> , <b>2009</b> , 64, 3729-3735	4.4	125
80	Natural gas upgrading using a fluorinated MOF with tuned H <sub>2</sub> S and CO <sub>2</sub> adsorption selectivity. <i>Nature Energy</i> , <b>2018</b> , 3, 1059-1066	62.3	123
79	Highly monodisperse M(III)-based soc-MOFs (M = In and Ga) with cubic and truncated cubic morphologies. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13176-9	16.4	122
78	Quest for anionic MOF membranes: continuous sod-ZMOF membrane with CO <sub>2</sub> adsorption-driven selectivity. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 1754-7	16.4	114
77	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H <sub>2</sub> S and CO from Natural Gas. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 14811-14816	16.4	111
76	Porous organic polymers with anchored aldehydes: a new platform for post-synthetic amine functionalization en route for enhanced CO <sub>2</sub> adsorption properties. <i>Chemical Communications</i> , <b>2014</b> , 50, 1937-40	5.8	105
75	Versatile rare earth hexanuclear clusters for the design and synthesis of highly-connected -MOFs. <i>Chemical Science</i> , <b>2015</b> , 6, 4095-4102	9.4	103
74	A facile solvent-free synthesis route for the assembly of a highly CO <sub>2</sub> selective and H <sub>2</sub> S tolerant NiSIFSIX metal-organic framework. <i>Chemical Communications</i> , <b>2015</b> , 51, 13595-8	5.8	102
73	Isothermal versus Non-isothermal Adsorption/Desorption Cycling of Triamine-Grafted Pore-Expanded MCM-41 Mesoporous Silica for CO <sub>2</sub> Capture from Flue Gas. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 5273-5280	4.1	99
72	A supermolecular building layer approach for gas separation and storage applications: the eea and rtl MOF platforms for CO <sub>2</sub> capture and hydrocarbon separation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6276-6281	13	97
71	The role of the extra-framework cations in the adsorption of CO(2) on faujasite Y. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 13534-46	3.6	97
70	Insights on Capacitive Interdigitated Electrodes Coated with MOF Thin Films: Humidity and VOCs Sensing as a Case Study. <i>Sensors</i> , <b>2015</b> , 15, 18153-66	3.8	92
69	Enriching the Reticular Chemistry Repertoire: Merged Nets Approach for the Rational Design of Intricate Mixed-Linker Metal-Organic Framework Platforms. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 8858-8867	16.4	91
68	The quest for modular nanocages: tbo-MOF as an archetype for mutual substitution, functionalization, and expansion of quadrangular pillar building blocks. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 14204-7	16.4	91
67	The asc trinodal platform: two-step assembly of triangular, tetrahedral, and trigonal-prismatic molecular building blocks. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 2902-5	16.4	87
66	Successful implementation of the stepwise layer-by-layer growth of MOF thin films on confined surfaces: mesoporous silica foam as a first case study. <i>Chemical Communications</i> , <b>2012</b> , 48, 11434-6	5.8	87
65	Applying the Power of Reticular Chemistry to Finding the Missing alb-MOF Platform Based on the (6,12)-Coordinated Edge-Transitive Net. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3265-3274	16.4	84
64	Conformation-Controlled Molecular Sieving Effects for Membrane-Based Propylene/Propane Separation. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807513	24	83

63	Reticular Chemistry at Its Best: Directed Assembly of Hexagonal Building Units into the Awaited Metal-Organic Framework with the Intricate Polybenzene Topology, pbz-MOF. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 12767-12770	16.4	80
62	Degradation of amine-supported CO <sub>2</sub> adsorbents in the presence of oxygen-containing gases. <i>Microporous and Mesoporous Materials</i> , <b>2011</b> , 145, 146-149	5.3	78
61	A complete experimental approach for synthesis gas separation studies using static gravimetric and column breakthrough experiments. <i>Adsorption</i> , <b>2007</b> , 13, 341-349	2.6	77
60	Metal-Organic frameworks to satisfy gas upgrading demands: fine-tuning the soc-MOF platform for the operative removal of H <sub>2</sub> S. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3293-3303	13	76
59	Achieving Superprotonic Conduction with a 2D Fluorinated Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13156-13160	16.4	74
58	Isorecticular rare earth fcu -MOFs for the selective removal of H <sub>2</sub> S from CO <sub>2</sub> containing gases. <i>Chemical Engineering Journal</i> , <b>2017</b> , 324, 392-396	14.7	73
57	High-pressure adsorption measurements. A comparative study of the volumetric and gravimetric methods. <i>Measurement Science and Technology</i> , <b>2004</b> , 15, 848-858	2	73
56	Valuing Metal-Organic Frameworks for Postcombustion Carbon Capture: A Benchmark Study for Evaluating Physical Adsorbents. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702953	24	70
55	Simultaneous Adsorption of H <sub>2</sub> S and CO <sub>2</sub> on Triamine-Grafted Pore-Expanded Mesoporous MCM-41 Silica. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 1310-1315	4.1	70
54	Influence of regeneration conditions on the cyclic performance of amine-grafted mesoporous silica for CO <sub>2</sub> capture: An experimental and statistical study. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 4166-4172	4.4	69
53	A Tailor-Made Interpenetrated MOF with Exceptional Carbon-Capture Performance from Flue Gas. <i>CheM</i> , <b>2019</b> , 5, 950-963	16.2	68
52	Enhanced CO/CH <sub>4</sub> Separation Performance of a Mixed Matrix Membrane Based on Tailored MOF-Polymer Formulations. <i>Advanced Science</i> , <b>2018</b> , 5, 1800982	13.6	67
51	Microporous Heptazine Functionalized (3,24)-Connected rht-Metal-Organic Framework: Synthesis, Structure, and Gas Sorption Analysis. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 414-418	3.5	67
50	Understanding Hydrogen Sorption in a Metal-Organic Framework with Open-Metal Sites and Amide Functional Groups. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 9340-9354	3.8	67
49	Polyoxometalate-Cyclodextrin Metal-Organic Frameworks: From Tunable Structure to Customized Storage Functionality. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 1847-1851	16.4	65
48	A Fine-Tuned MOF for Gas and Vapor Separation: A Multipurpose Adsorbent for Acid Gas Removal, Dehydration, and BTX Sieving. <i>CheM</i> , <b>2017</b> , 3, 822-833	16.2	62
47	Triamine-grafted pore-expanded mesoporous silica for CO <sub>2</sub> capture: Effect of moisture and adsorbent regeneration strategies. <i>Adsorption</i> , <b>2010</b> , 16, 567-575	2.6	60
46	Adsorption of CO <sub>2</sub> -containing gas mixtures over amine-bearing pore-expanded MCM-41 silica: application for CO <sub>2</sub> separation. <i>Adsorption</i> , <b>2011</b> , 17, 395-401	2.6	53

45	Poly-functional porous-organic polymers to access functionality [CO <sub>2</sub> sorption energetic relationships. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 22584-22590	13	48
44	Hydrocarbon recovery using ultra-microporous fluorinated MOF platform with and without uncoordinated metal sites: I- structure properties relationships for C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> and CO <sub>2</sub> /C <sub>2</sub> H <sub>2</sub> separation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 32-36	14.7	47
43	Zeolite-like MOF nanocrystals incorporated 6FDA-polyimide mixed-matrix membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Journal of Membrane Science</i> , <b>2018</b> , 565, 186-193	9.6	44
42	Topology meets MOF chemistry for pore-aperture fine tuning: ftw-MOF platform for energy-efficient separations via adsorption kinetics or molecular sieving. <i>Chemical Communications</i> , <b>2018</b> , 54, 6404-6407	5.8	44
41	Metal-Organic Framework Membranes: From Fabrication to Gas Separation. <i>Crystals</i> , <b>2018</b> , 8, 412	2.3	38
40	Investigating the Gas Sorption Mechanism in an rht-Metal-Organic Framework through Computational Studies. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 439-456	3.8	37
39	Silicoaluminophosphate Molecular Sieves STA-7 and STA-14 and Their Structure-Dependent Catalytic Performance in the Conversion of Methanol to Olefins. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 15731-15741	3.8	37
38	CO <sub>2</sub> adsorption in LiY and NaY at high temperature: molecular simulations compared to experiments. <i>Adsorption</i> , <b>2007</b> , 13, 453-460	2.6	34
37	Quest for an Optimal Methane Hydrate Formation in the Pores of Hydrolytically Stable Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 13391-13397	16.4	33
36	Effect of pendant isophthalic acid moieties on the adsorption properties of light hydrocarbons in HKUST-1-like tbo-MOFs: application to methane purification and storage. <i>RSC Advances</i> , <b>2014</b> , 4, 63855-63859	3.7	31
35	Gaining Insights on the H <sub>2</sub> Sorbent Interactions: Robust soc-MOF Platform as a Case Study. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7353-7361	9.6	30
34	Enhanced Separation of Butane Isomers via Defect Control in a Fumarate/Zirconium-Based Metal Organic Framework. <i>Langmuir</i> , <b>2018</b> , 34, 14546-14551	4	30
33	Metal-organic frameworks for H and CH storage: insights on the pore geometry-sorption energetics relationship. <i>IUCrJ</i> , <b>2017</b> , 4, 131-135	4.7	29
32	From an equilibrium based MOF adsorbent to a kinetic selective carbon molecular sieve for paraffin/iso-paraffin separation. <i>Chemical Communications</i> , <b>2016</b> , 52, 13897-13900	5.8	26
31	H <sub>2</sub> S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 16111-16115	3.6	26
30	Nanoporous Fluorinated Metal-Organic Framework-Based Membranes for CO <sub>2</sub> Capture. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6432-6439	5.6	25
29	Concurrent Sensing of CO and HO from Air Using Ultramicroporous Fluorinated Metal-Organic Frameworks: Effect of Transduction Mechanism on the Sensing Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 1706-1712	9.5	25
28	Extremely Hydrophobic POPs to Access Highly Porous Storage Media and Capturing Agent for Organic Vapors. <i>Chem</i> , <b>2019</b> , 5, 180-191	16.2	22

27	Advances in Shaping of Metal-Organic Frameworks for CO <sub>2</sub> Capture: Understanding the Effect of Rubbery and Glassy Polymeric Binders. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 16897-16902	3.9	22
26	Tuning Gas Adsorption Properties of Zeolite-like Supramolecular Assemblies with gis Topology via Functionalization of Isorecticular Metal-Organic Squares. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33521-33527	9.5	21
25	High-Pressure Adsorption Isotherms of N <sub>2</sub> , CH <sub>4</sub> , O <sub>2</sub> , and Ar on Different Carbonaceous Adsorbents. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2004</b> , 49, 1379-1391	2.8	21
24	Ultra-Tuning of the Rare-Earth fcu-MOF Aperture Size for Selective Molecular Exclusion of Branched Paraffins. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 14561-14566	3.6	20
23	Made-to-order porous electrodes for supercapacitors: MOFs embedded with redox-active centers as a case study. <i>Chemical Communications</i> , <b>2020</b> , 56, 1883-1886	5.8	19
22	A unique 3D ultramicroporous triptycene-based polyimide framework for efficient gas sorption applications. <i>RSC Advances</i> , <b>2016</b> , 6, 97560-97565	3.7	16
21	Upgrading gasoline to high octane numbers using a zeolite-like metal-organic framework molecular sieve with ana-topology. <i>Chemical Communications</i> , <b>2018</b> , 54, 9414-9417	5.8	15
20	Advances on CO <sub>2</sub> storage. Synthetic porous solids, mineralization and alternative solutions. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129569	14.7	15
19	Synthesis and carbon dioxide sorption of layered double hydroxide/silica foam nanocomposites with hierarchical mesostructure. <i>ChemSusChem</i> , <b>2014</b> , 7, 1035-9	8.3	14
18	Differential guest location by host dynamics enhances propylene/propane separation in a metal-organic framework. <i>Nature Communications</i> , <b>2020</b> , 11, 6099	17.4	14
17	Structure directing agents induced morphology evolution and phase transition from indium-based rho- to sod-ZMOF. <i>CrystEngComm</i> , <b>2017</b> , 19, 4265-4268	3.3	10
16	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H <sub>2</sub> S and CO <sub>2</sub> from Natural Gas. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 15027-15032	3.6	10
15	CO <sub>2</sub> Capture Using the SIFSIX-2-Cu-i Metal-Organic Framework: A Computational Approach. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 27462-27472	3.8	9
14	Revisiting the water sorption isotherm of MOF using electrical measurements. <i>Chemical Communications</i> , <b>2019</b> , 55, 13251-13254	5.8	9
13	Carbonization of covalent triazine-based frameworks via ionic liquid induction. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 15564-15568	13	8
12	Versatility vs stability. Are the assets of metal-organic frameworks deployable in aqueous acidic and basic media?. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 443, 214020	23.2	7
11	Kinetic separation of C <sub>4</sub> olefins using Y-fum-fcu-MOF with ultra-fine-tuned aperture size. <i>Chemical Engineering Journal</i> , <b>2021</b> , 413, 127388	14.7	6
10	A nafion coated capacitive humidity sensor on a flexible PET substrate <b>2016</b> ,		5

9	Adsorption equilibria of single gas and gas mixture on homogeneous surfaces: a unified approach based on statistical thermodynamics developments. Part I: single gas adsorption. <i>Molecular Simulation</i> , <b>2006</b> , 32, 495-502	2	3
8	MOF mixed matrix membranes for CO <sub>2</sub> separation <b>2020</b> , 331-355		3
7	Adsorption equilibria of single gas and gas mixture on homogeneous surfaces: a unified approach based on statistical thermodynamics developments. Part II: extension to gas mixture adsorption. <i>Molecular Simulation</i> , <b>2006</b> , 32, 503-511	2	2
6	Structural characterization of porous carbonaceous materials using high-pressure adsorption measurements. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 160, 113-120	1.8	2
5	Toward Net-Zero Emission Fertilizers Industry: Greenhouse Gas Emission Analyses and Decarbonization Solutions. <i>Energy &amp; Fuels</i> ,	4.1	2
4	Methane Storage in Metal-Organic Frameworks: Insights into the Storage Performance and the Intrinsic Property Relationships for Enhanced Adsorbed Natural Gas Storage. <i>Series on Chemistry, Energy and the Environment</i> , <b>2018</b> , 207-246	0.2	1
3	Rücktitelbild: H <sub>2</sub> S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode (Angew. Chem. 51/2016). <i>Angewandte Chemie</i> , <b>2016</b> , 128, 16162-16162	3.6	1
2	Efficient Splitting of Trans-/Cis-Olefins Using an Anion-Pillared Ultramicroporous Metal-Organic Framework with Guest-Adaptive Pore Channels. <i>Engineering</i> , <b>2021</b> ,	9.7	1
1	Perspectives in Adsorptive and Catalytic Mitigations of NO <sub>x</sub> Using Metal-Organic Frameworks. <i>Energy &amp; Fuels</i> , <b>2022</b> , 36, 3347-3371	4.1	0