

Banglin Chen

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.

394 papers	60,030 citations	113 h-index	240 g-index
425 ext. papers	68,228 ext. citations	11.1 avg, IF	8.14 L-index

#	Paper	IF	Citations
394	Fine pore engineering in a series of isorecticular metal-organic frameworks for efficient CH ₄ /CO ₂ separation.. <i>Nature Communications</i> , 2022 , 13, 200	17.4	20
393	Recent progress on porous MOFs for process-efficient hydrocarbon separation, luminescent sensing, and information encryption.. <i>Chemical Communications</i> , 2022 ,	5.8	11
392	Expanding dynamic framework materials into COFs through HOF approach. <i>Chem</i> , 2022 , 8, 7-9	16.2	
391	Emerging microporous HOF materials to address global energy challenges. <i>Joule</i> , 2022 , 6, 22-27	27.8	7
390	Immobilization of Lewis Basic Sites into a Stable Ethane-Selective MOF Enabling One-Step Separation of Ethylene from a Ternary Mixture.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	11
389	Robust and Radiation-Resistant Hofmann-Type Metal-Organic Frameworks for Record Xenon/Krypton Separation.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	11
388	Collaborative pore partition and pore surface fluorination within a metal-organic framework for high-performance C ₂ H ₂ /CO ₂ separation. <i>Chemical Engineering Journal</i> , 2022 , 432, 134433	14.7	6
387	Maximizing acetylene packing density for highly efficient C ₂ H ₂ /CO ₂ separation through immobilization of amine sites within a prototype MOF. <i>Chemical Engineering Journal</i> , 2022 , 431, 134184	14.7	7
386	Creating Optimal Pockets in a Clathrochelate-Based Metal-Organic Framework for Gas Adsorption and Separation: Experimental and Computational Studies.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	9
385	Identifying the Gate-Opening Mechanism in the Flexible Metal-Organic Framework UTSA-300.. <i>Inorganic Chemistry</i> , 2022 ,	5.1	2
384	A peroxide-based conjugated triazine framework as a luminescent probe for p-nitroaniline and Fe ³⁺ detection. <i>Polymer</i> , 2022 , 246, 124752	3.9	
383	An ultramicroporous metal-organic framework with dual functionalities for high sieving separation of CO ₂ from CH ₄ and N ₂ . <i>Chemical Engineering Journal</i> , 2022 , 446, 137101	14.7	2
382	A Molecular Compound for Highly Selective Purification of Ethylene. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	4
381	Old Materials for New Functions: Recent Progress on Metal Cyanide Based Porous Materials. <i>Advanced Science</i> , 2021 , e2104234	13.6	4
380	A dynamic MOF for efficient purification of propylene. <i>Science China Chemistry</i> , 2021 , 64, 2053	7.9	0
379	Maximizing Electroactive Sites in a Three-Dimensional Covalent Organic Framework for Significantly Improved Carbon Dioxide Reduction Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	8
378	Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9604-9609	16.4	26

377	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10304-10310	16.4	41
376	Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. <i>Angewandte Chemie</i> , 2021 , 133, 9690-9695	3.6	7
375	A Fluorescent Metal-Organic Framework for Food Real-Time Visual Monitoring. <i>Advanced Materials</i> , 2021 , 33, e2008020	24	31
374	Robust Biological Hydrogen-Bonded Organic Framework with Post-Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visible-Light-Driven CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8983-8989	16.4	32
373	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. <i>Angewandte Chemie</i> , 2021 , 133, 10392-10398	3.6	14
372	Robust Biological Hydrogen-Bonded Organic Framework with Post-Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visible-Light-Driven CO ₂ Reduction. <i>Angewandte Chemie</i> , 2021 , 133, 9065-9071	3.6	4
371	Stable Eu/Cu-Functionalized Supramolecular Zinc(II) Complexes as Fluorescent Probes for Turn-On and Ratiometric Detection of Hydrogen Sulfide. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20371-20379	9.5	10
370	Two-Dimensional Covalent Organic Frameworks with Cobalt(II)-Phthalocyanine Sites for Efficient Electrocatalytic Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7104-7113	16.4	45
369	Metal-Organic Frameworks for Photo/Electrocatalysis. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100033	1.6	47
368	Realization of Ethylene Production from Its Quaternary Mixture through Metal-Organic Framework Materials. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22514-22520	9.5	8
367	Benchmark C ₂ H ₂ /CO ₂ Separation in an Ultra-Microporous Metal-Organic Framework via Copper(I)-Alkynyl Chemistry. <i>Angewandte Chemie</i> , 2021 , 133, 16131-16138	3.6	10
366	Progress in Multifunctional Metal-Organic Frameworks/Polymer Hybrid Membranes. <i>Chemistry - A European Journal</i> , 2021 , 27, 12940-12952	4.8	3
365	Deep Desulfurization with Record SO Adsorption on the Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9040-9047	16.4	24
364	Benchmark C ₂ H ₂ /CO Separation in an Ultra-Microporous Metal-Organic Framework via Copper(I)-Alkynyl Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15995-16002	16.4	29
363	A Microporous Hydrogen-Bonded Organic Framework for the Efficient Capture and Purification of Propylene. <i>Angewandte Chemie</i> , 2021 , 133, 20563-20569	3.6	2
362	A Microporous Hydrogen-Bonded Organic Framework for the Efficient Capture and Purification of Propylene. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20400-20406	16.4	26
361	MOF-Nanocomposite Mixed-Matrix Membrane for Dual-Luminescence Ratiometric Temperature Sensing. <i>Advanced Optical Materials</i> , 2021 , 9, 2100945	8.1	20
360	A microporous aluminum-based metal-organic framework for high methane, hydrogen, and carbon dioxide storage. <i>Nano Research</i> , 2021 , 14, 507-511	10	24

359	Confined Thermolysis for Oriented N-Doped Carbon Supported Pd toward Stable Catalytic and Energy Storage Applications. <i>Small</i> , 2021 , 17, e2002811	11	4
358	Highly Specific Coordination-Driven Self-Assembly of 2D Heterometallic Metal-Organic Frameworks with Unprecedented Johnson-type () Nonanuclear Zr-Oxocarboxylate Clusters. <i>Journal of the American Chemical Society</i> , 2021 , 143, 657-663	16.4	8
357	Embedding Red Emitters in the NbO-Type Metal-Organic Frameworks for Highly Sensitive Luminescence Thermometry over Tunable Temperature Range. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11078-11088	9.5	19
356	Ethylene/ethane separation in a stable hydrogen-bonded organic framework through a gating mechanism. <i>Nature Chemistry</i> , 2021 , 13, 933-939	17.6	45
355	Efficient CH ₄ /CO Separation in Ultramicroporous Metal-Organic Frameworks with Record CH ₄ Storage Density. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14869-14876	16.4	12
354	Achieving High Performance Metal-Organic Framework Materials through Pore Engineering. <i>Accounts of Chemical Research</i> , 2021 , 54, 3362-3376	24.3	37
353	Dense Packing of Acetylene in a Stable and Low-Cost Metal-Organic Framework for Efficient C ₂ H ₂ /CO Separation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25068-25074	16.4	22
352	A Solid Transformation into Carboxyl Dimers Based on a Robust Hydrogen-Bonded Organic Framework for Propyne/Propylene Separation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25942-25948	16.4	8
351	Multifunctional Pd/MOFs@MOFs Confined Core-Shell Catalysts with Wrinkled Surface for Selective Catalysis. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 3743-3747	4.5	2
350	Highly Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Metal-Organic Framework. <i>Advanced Materials</i> , 2021 , 33, e2105880	24	14
349	An anthracene based conjugated triazine framework as a luminescent probe for selective sensing of p-nitroaniline and Fe(III) ions. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6568-6574	7.8	6
348	K-Chabazite Zeolite Nanocrystal Aggregates for Highly Efficient Methane Separation.. <i>Angewandte Chemie - International Edition</i> , 2021 , e202116850	16.4	0
347	Light-gated cation-selective transport in metal-organic framework membranes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11399-11405	13	27
346	Optimizing Pore Space for Flexible-Robust Metal-Organic Framework to Boost Trace Acetylene Removal. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9744-9751	16.4	66
345	A robust Thiazole framework for highly efficient purification of CH ₄ from a CH ₄ /CH ₂ /CH ₂ mixture. <i>Nature Communications</i> , 2020 , 11, 3163	17.4	83
344	Microporous Hydrogen-Bonded Organic Framework for Highly Efficient Turn-Up Fluorescent Sensing of Aniline. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12478-12485	16.4	73
343	Optimization of the Pore Structures of MOFs for Record High Hydrogen Volumetric Working Capacity. <i>Advanced Materials</i> , 2020 , 32, e1907995	24	48
342	Metal-Organic Frameworks as a Versatile Platform for Proton Conductors. <i>Advanced Materials</i> , 2020 , 32, e1907090	24	118

341	Gas Separation via Hybrid Metal-Organic Framework/Polymer Membranes. <i>Trends in Chemistry</i> , 2020 , 2, 254-269	14.8	38
340	Energy-efficient separation alternatives: metal-organic frameworks and membranes for hydrocarbon separation. <i>Chemical Society Reviews</i> , 2020 , 49, 5359-5406	58.5	148
339	Elucidating heterogeneous photocatalytic superiority of microporous porphyrin organic cage. <i>Nature Communications</i> , 2020 , 11, 1047	17.4	46
338	A Light-Responsive Metal-Organic Framework Hybrid Membrane with High On/Off Photoswitchable Proton Conductivity. <i>Angewandte Chemie</i> , 2020 , 132, 7806-7811	3.6	5
337	Construction of a functionalized hierarchical pore metal-organic framework via a palladium-reduction induced strategy. <i>Nanoscale</i> , 2020 , 12, 6250-6255	7.7	6
336	A Light-Responsive Metal-Organic Framework Hybrid Membrane with High On/Off Photoswitchable Proton Conductivity. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7732-7737	16.4	51
335	A novel hydrogen-bonded organic framework for the sensing of two representative organic arsenics. <i>Canadian Journal of Chemistry</i> , 2020 , 98, 352-357	0.9	9
334	A microporous metal-organic framework with basic sites for efficient C ₂ H ₂ /CO ₂ separation. <i>Journal of Solid State Chemistry</i> , 2020 , 284, 121209	3.3	10
333	Mixed Metal-Organic Framework with Multiple Binding Sites for Efficient C ₂ H ₂ /CO ₂ Separation. <i>Angewandte Chemie</i> , 2020 , 132, 4426-4430	3.6	32
332	Coordination assembly of 2D ordered organic metal chalcogenides with widely tunable electronic band gaps. <i>Nature Communications</i> , 2020 , 11, 261	17.4	23
331	Mechanochemical synthesis of an ethylene sieve UTSA-280. <i>Journal of Solid State Chemistry</i> , 2020 , 287, 121321	3.3	3
330	An Ultramicroporous Metal-Organic Framework for High Sieving Separation of Propylene from Propane. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17795-17801	16.4	67
329	Emerging 2D functional metal-organic framework materials. <i>National Science Review</i> , 2020 , 7, 3-5	10.8	3
328	Mixed Metal-Organic Framework with Multiple Binding Sites for Efficient C ₂ H ₂ /CO Separation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4396-4400	16.4	169
327	Novel route to size-controlled synthesis of MnFeO@MOF core-shell nanoparticles. <i>Journal of Solid State Chemistry</i> , 2020 , 283, 121127-121127	3.3	3
326	Microporous Metal-Organic Framework Materials for Gas Separation. <i>Chem</i> , 2020 , 6, 337-363	16.2	234
325	Selective Ethane/Ethylene Separation in a Robust Microporous Hydrogen-Bonded Organic Framework. <i>Journal of the American Chemical Society</i> , 2020 , 142, 633-640	16.4	86
324	Boosting Ethylene/Ethane Separation within Copper(II)-Chelated Metal-Organic Frameworks through Tailor-Made Aperture and Specific E-Complexation. <i>Advanced Science</i> , 2020 , 7, 1901918	13.6	41

323	Doubly Interpenetrated Metal-Organic Framework of pcu Topology for Selective Separation of Propylene from Propane. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48712-48717	9.5	8
322	A novel expanded metal-organic framework for balancing volumetric and gravimetric methane storage working capacities. <i>Chemical Communications</i> , 2020 , 56, 13117-13120	5.8	6
321	Isorecticular Microporous Metal-Organic Frameworks for Carbon Dioxide Capture. <i>Inorganic Chemistry</i> , 2020 , 59, 17143-17148	5.1	11
320	Design and applications of water-stable metal-organic frameworks: status and challenges. <i>Coordination Chemistry Reviews</i> , 2020 , 423, 213507	23.2	41
319	Boosting the photoreduction activity of Cr(VI) in metal-organic frameworks by photosensitizer incorporation and framework ionization. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17219-17228	13	14
318	Hydrogen-Bonded Organic Frameworks as a Tunable Platform for Functional Materials. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14399-14416	16.4	132
317	A Robust Mixed-Lanthanide PolyMOF Membrane for Ratiometric Temperature Sensing. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21752-21757	16.4	48
316	Controllable broadband multicolour single-mode polarized laser in a dye-assembled homoepitaxial MOF microcrystal. <i>Light: Science and Applications</i> , 2020 , 9, 138	16.7	18
315	Tuning Gate-Opening of a Flexible Metal-Organic Framework for Ternary Gas Sieving Separation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22756-22762	16.4	73
314	Tuning Gate-Opening of a Flexible Metal-Organic Framework for Ternary Gas Sieving Separation. <i>Angewandte Chemie</i> , 2020 , 132, 22944-22950	3.6	21
313	An Ultramicroporous Metal-Organic Framework for Sieving Separation of Carbon Dioxide from Methane. <i>Small Structures</i> , 2020 , 1, 2000022	8.7	16
312	A Robust Mixed-Lanthanide PolyMOF Membrane for Ratiometric Temperature Sensing. <i>Angewandte Chemie</i> , 2020 , 132, 21936-21941	3.6	15
311	A microporous metal-organic framework with naphthalene diimide groups for high methane storage. <i>Dalton Transactions</i> , 2020 , 49, 3658-3661	4.3	21
310	Reversed ethane/ethylene adsorption in a metal-organic framework introduction of oxygen. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 593-593	3.2	14
309	A stable zirconium based metal-organic framework for specific recognition of representative polychlorinated dibenzo-p-dioxin molecules. <i>Nature Communications</i> , 2019 , 10, 3861	17.4	98
308	Reversing CH ₄ -CO ₂ adsorption selectivity in an ultramicroporous metal-organic framework platform. <i>Chemical Communications</i> , 2019 , 55, 11354-11357	5.8	25
307	Tailoring the pore geometry and chemistry in microporous metal-organic frameworks for high methane storage working capacity. <i>Chemical Communications</i> , 2019 , 55, 11402-11405	5.8	7
306	Microporous Copper Isophthalate Framework of mot Topology for C ₂ H ₂ /CO ₂ Separation. <i>Crystal Growth and Design</i> , 2019 , 19, 5829-5835	3.5	27

305	Multifunctional porous hydrogen-bonded organic framework materials. <i>Chemical Society Reviews</i> , 2019 , 48, 1362-1389	58.5	358
304	Our journey of developing multifunctional metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2019 , 384, 21-36	23.2	86
303	A metal-organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3128-3134	13	82
302	A microporous metal-organic framework of sql topology for C ₂ H ₂ /CO ₂ separation. <i>Inorganica Chimica Acta</i> , 2019 , 495, 118938	2.7	24
301	Postsynthetic Metalation of a Robust Hydrogen-Bonded Organic Framework for Heterogeneous Catalysis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8737-8740	16.4	82
300	Air-Free Synthesis of a Ferrous Metal-Organic Framework Featuring HKUST-1 Structure and its Mössbauer Spectrum. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019 , 645, 797-800	1.3	6
299	Robust Microporous Metal-Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. <i>Angewandte Chemie</i> , 2019 , 131, 10315-10320	3.6	12
298	Robust Microporous Metal-Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10209-10214	16.4	45
297	Tunable titanium metal-organic frameworks with infinite 1D TiO rods for efficient visible-light-driven photocatalytic H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11928-11933	13	153
296	Pore Space Partition within a Metal-Organic Framework for Highly Efficient CH ₄ /CO Separation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4130-4136	16.4	190
295	A Flexible Microporous Hydrogen-Bonded Organic Framework. <i>Crystal Growth and Design</i> , 2019 , 19, 5184-5188	5.5	21
294	Simultaneous implementation of resistive switching and rectifying effects in a metal-organic framework with switched hydrogen bond pathway. <i>Science Advances</i> , 2019 , 5, eaaw4515	14.3	54
293	Effective and selective adsorption of organoarsenic acids from water over a Zr-based metal-organic framework. <i>Chemical Engineering Journal</i> , 2019 , 378, 122196	14.7	44
292	Single Crystal Perovskite Microplate for High-Order Multiphoton Excitation. <i>Small Methods</i> , 2019 , 3, 1900396	12.6	9
291	Porous metal-organic frameworks for gas storage and separation: Status and challenges. <i>EnergyChem</i> , 2019 , 1, 100006	36.9	235
290	Loading Photochromic Molecules into a Luminescent Metal-Organic Framework for Information Anticounterfeiting. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18025-18031	16.4	98
289	Of HOF hosts. <i>Nature Chemistry</i> , 2019 , 11, 1078-1080	17.6	4
288	Loading Photochromic Molecules into a Luminescent Metal-Organic Framework for Information Anticounterfeiting. <i>Angewandte Chemie</i> , 2019 , 131, 18193-18199	3.6	30

287	A novel mesoporous hydrogen-bonded organic framework with high porosity and stability. <i>Chemical Communications</i> , 2019 , 56, 66-69	5.8	33
286	Microporous Metal-Organic Framework with Dual Functionalities for Efficient Separation of Acetylene from Light Hydrocarbon Mixtures. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7,	8.3	39
285	Construction of Hierarchical Metal-Organic Frameworks by Competitive Coordination Strategy for Highly Efficient CO Conversion. <i>Advanced Materials</i> , 2019 , 31, e1904969	24	67
284	Construction of a thiourea-based metal-organic framework with open Ag ⁺ sites for the separation of propene/propane mixtures. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25567-25572	13	17
283	Dye-Modified Metal-Organic Framework as a Recyclable Luminescent Sensor for Nicotine Determination in Urine Solution and Living Cell. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47253-47258	9.5	24
282	Metal-organic framework coated titanium dioxide nanorod array p-n heterojunction photoanode for solar water-splitting. <i>Nano Research</i> , 2019 , 12, 643-650	10	50
281	Confinement of Perovskite-QDs within a Single MOF Crystal for Significantly Enhanced Multiphoton Excited Luminescence. <i>Advanced Materials</i> , 2019 , 31, e1806897	24	79
280	Low-Cost and High-Performance Microporous Metal-Organic Framework for Separation of Acetylene from Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1667-1672	8.3	33
279	Exploration of porous metal-organic frameworks for gas separation and purification. <i>Coordination Chemistry Reviews</i> , 2019 , 378, 87-103	23.2	368
278	A Metal-Organic Framework with Optimized Porosity and Functional Sites for High Gravimetric and Volumetric Methane Storage Working Capacities. <i>Advanced Materials</i> , 2018 , 30, e1704792	24	81
277	Gas Separation: A Single-Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anion-Pillared Ultramicroporous Materials (Adv. Mater. 10/2018). <i>Advanced Materials</i> , 2018 , 30, 1870068	24	3
276	Controlling Pore Shape and Size of Interpenetrated Anion-Pillared Ultramicroporous Materials Enables Molecular Sieving of CO Combined with Ultrahigh Uptake Capacity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16628-16635	9.5	61
275	Efficient separation of CH ₄ from CH ₄ /CO mixtures in an acid-base resistant metal-organic framework. <i>Chemical Communications</i> , 2018 , 54, 4846-4849	5.8	46
274	A Single-Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anion-Pillared Ultramicroporous Materials. <i>Advanced Materials</i> , 2018 , 30, 1705374	24	92
273	A microporous metal-organic framework with commensurate adsorption and highly selective separation of xenon. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4752-4758	13	49
272	Ordered macro-microporous metal-organic framework single crystals. <i>Science</i> , 2018 , 359, 206-210	33.3	570
271	Fine Tuning and Specific Binding Sites with a Porous Hydrogen-Bonded Metal-Complex Framework for Gas Selective Separations. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4596-4603	16.4	115
270	Current Status of Porous Metal-Organic Frameworks for Methane Storage 2018 , 163-198		2

269	Fine-tuning of nano-traps in a stable metal-organic framework for highly efficient removal of propyne from propylene. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6931-6937	13	57
268	Porous metal-organic frameworks for fuel storage. <i>Coordination Chemistry Reviews</i> , 2018 , 373, 167-198	23.2	169
267	Metal-Organic Framework with Trifluoromethyl Groups for Selective C ₂ H ₂ and CO ₂ Adsorption. <i>Crystal Growth and Design</i> , 2018 , 18, 4522-4527	3.5	18
266	Nickel-4Q(3,5-dicarboxyphenyl)-2,2',6,6'-terpyridine Framework: Efficient Separation of Ethylene from Acetylene/Ethylene Mixtures with a High Productivity. <i>Inorganic Chemistry</i> , 2018 , 57, 9489-9494	5.1	22
265	Holographic fabrication of graded photonic super-quasi-crystals with multiple-level gradients. <i>Applied Optics</i> , 2018 , 57, 6598-6604	1.7	16
264	UiO-66-Coated Mesh Membrane with Underwater Superoleophobicity for High-Efficiency Oil-Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17301-17308	9.5	83
263	New Progress of Microporous Metal-Organic Frameworks in CO ₂ Capture and Separation 2018 , 112-179		1
262	Highly selective room temperature acetylene sorption by an unusual triacetylenic phosphine MOF. <i>Chemical Communications</i> , 2018 , 54, 9937-9940	5.8	23
261	Kinetic separation of propylene over propane in a microporous metal-organic framework. <i>Chemical Engineering Journal</i> , 2018 , 354, 977-982	14.7	67
260	Porous Coordination Polymers for Heterogeneous Catalysis. <i>Current Organic Chemistry</i> , 2018 , 22, 1773-1791	17.1	3
259	A DNA-Threaded ZIF-8 Membrane with High Proton Conductivity and Low Methanol Permeability. <i>Advanced Materials</i> , 2018 , 30, 1705155	24	101
258	Separation of C ₂ hydrocarbons from methane in a microporous metal-organic framework. <i>Journal of Solid State Chemistry</i> , 2018 , 258, 346-350	3.3	25
257	MIL-100Cr with open Cr sites for a record NO capture. <i>Chemical Communications</i> , 2018 , 54, 14061-14064	5.8	19
256	Reticular Chemistry of Multifunctional Metal-Organic Framework Materials. <i>Israel Journal of Chemistry</i> , 2018 , 58, 949-961	3.4	16
255	Robust Nanoporous Supramolecular Network Through Charge-Transfer Interaction. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43987-43992	9.5	5
254	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15183-15188	16.4	83
253	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. <i>Angewandte Chemie</i> , 2018 , 130, 15403-15408	3.6	30
252	Bimetallic Hofmann-Type Metal-Organic Framework Nanoparticles for Efficient Electrocatalysis of Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	14

251	Molecular Sieving of Ethane from Ethylene through the Molecular Cross-Section Size Differentiation in Gallate-based Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2018 , 130, 16252-16257	3.6	47
250	Molecular Sieving of Ethane from Ethylene through the Molecular Cross-Section Size Differentiation in Gallate-based Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16020-16025	16.4	121
249	Molecular sieving of ethylene from ethane using a rigid metal-organic framework. <i>Nature Materials</i> , 2018 , 17, 1128-1133	27	326
248	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. <i>Science</i> , 2018 , 362, 443-446	33.3	478
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239	Microporous Metal-Organic Framework with Exposed Amino Functional Group for High Acetylene Storage and Excellent C ₂ H ₂ /CO ₂ and C ₂ H ₂ /CH ₄ Separations. <i>Crystal Growth and Design</i> , 2017 , 17, 2319-2322	3.5	42
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