

# Libo Li

## List of Publications by Citations

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131  
papers

6,019  
citations

39  
h-index

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g-index

146  
ext. papers

8,260  
ext. citations

8.4  
avg, IF

6.39  
L-index

#	Paper	IF	Citations
131	MXene molecular sieving membranes for highly efficient gas separation. <i>Nature Communications</i> , <b>2018</b> , 9, 155	17.4	530
130	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. <i>Science</i> , <b>2018</b> , 362, 443-446	33.3	478
129	Molecular sieving of ethylene from ethane using a rigid metal-organic framework. <i>Nature Materials</i> , <b>2018</b> , 17, 1128-1133	27	326
128	Optimized Separation of Acetylene from Carbon Dioxide and Ethylene in a Microporous Material. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 8022-8028	16.4	263
127	Nitrogen and sulfur co-doped carbon dots for highly selective and sensitive detection of Hg (II) ions. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 263-9	11.8	248
126	Porous metal-organic frameworks for gas storage and separation: Status and challenges. <i>EnergyChem</i> , <b>2019</b> , 1, 100006	36.9	235
125	Effective ion sieving with Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene membranes for production of drinking water from seawater. <i>Nature Sustainability</i> , <b>2020</b> , 3, 296-302	22.1	204
124	Boosting Ethane/Ethylene Separation within Isoreticular Ultramicroporous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 12940-12946	16.4	186
123	Water Transport with Ultralow Friction through Partially Exfoliated g-C N Nanosheet Membranes with Self-Supporting Spacers. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8974-8980	16.4	177
122	Flexible-Robust Metal-Organic Framework for Efficient Removal of Propyne from Propylene. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 7733-7736	16.4	177
121	Paralyzed membrane: Current-driven synthesis of a metal-organic framework with sharpened propene/propane separation. <i>Science Advances</i> , <b>2018</b> , 4, eaau1393	14.3	132
120	Water-based routes for synthesis of metal-organic frameworks: A review. <i>Science China Materials</i> , <b>2020</b> , 63, 667-685	7.1	103
119	Enhanced Gas Uptake in a Microporous Metal-Organic Framework a Sorbate Induced-Fit Mechanism. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 17703-17712	16.4	94
118	Selective Ethane/Ethylene Separation in a Robust Microporous Hydrogen-Bonded Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 633-640	16.4	86
117	Adsorption of CO <sub>2</sub> , CH <sub>4</sub> , and N <sub>2</sub> on 8-, 10-, and 12-Membered Ring Hydrophobic Microporous High-Silica Zeolites: DDR, Silicalite-1, and Beta. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 17856-17864	3.9	85
116	A robust Thiazole framework for highly efficient purification of CH <sub>4</sub> from a CH <sub>4</sub> /CH <sub>2</sub> /CH <sub>2</sub> mixture. <i>Nature Communications</i> , <b>2020</b> , 11, 3163	17.4	83
115	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> , <b>2018</b> , 57, 15183-15188	16.4	83

114	A metal-organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO <sub>2</sub> capture. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3128-3134	13	82
113	A Metal-Organic Framework with Optimized Porosity and Functional Sites for High Gravimetric and Volumetric Methane Storage Working Capacities. <i>Advanced Materials</i> , <b>2018</b> , 30, e1704792	24	81
112	Engineering New Defects in MIL-100(Fe) via a Mixed-Ligand Approach To Effect Enhanced Volatile Organic Compound Adsorption Capacity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 774-782	3.8	69
111	Separation of CO <sub>2</sub> /CH <sub>4</sub> and CH <sub>4</sub> /N <sub>2</sub> mixtures by M/DOBDC: A detailed dynamic comparison with MIL-100(Cr) and activated carbon. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 198, 236-246	5.3	68
110	Efficient separation of ethylene from acetylene/ethylene mixtures by a flexible-robust metal-organic framework. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18984-18988	13	68
109	Kinetic separation of propylene over propane in a microporous metal-organic framework. <i>Chemical Engineering Journal</i> , <b>2018</b> , 354, 977-982	14.7	67
108	Adsorption of CO <sub>2</sub> , CH <sub>4</sub> , and N <sub>2</sub> on Gas Diameter Grade Ion-Exchange Small Pore Zeolites. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 3701-3709	2.8	66
107	Exploiting the gate opening effect in a flexible MOF for selective adsorption of propyne from C <sub>1</sub> /C <sub>2</sub> /C <sub>3</sub> hydrocarbons. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 751-755	13	63
106	Selective gas diffusion in two-dimensional MXene lamellar membranes: insights from molecular dynamics simulations. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 11734-11742	13	61
105	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> , <b>2018</b> , 6, 6931-6937	13	57
104	Immobilization of Oxygen Atoms in the Pores of Microporous Metal-Organic Frameworks for C <sub>2</sub> H <sub>2</sub> Separation and Purification. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 2911-2919	5.6	52
103	Recent advances in the synthesis of monolithic metal-organic frameworks. <i>Science China Materials</i> , <b>2021</b> , 64, 1305-1319	7.1	51
102	Simultaneous determination of ascorbic acid, dopamine and uric acid at a nitrogen-doped carbon nanofiber modified electrode. <i>RSC Advances</i> , <b>2015</b> , 5, 11925-11932	3.7	47
101	Efficient separation of CH <sub>4</sub> from CH <sub>4</sub> /CO mixtures in an acid-base resistant metal-organic framework. <i>Chemical Communications</i> , <b>2018</b> , 54, 4846-4849	5.8	46
100	Robust Microporous Metal-Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 10209-10214	16.4	45
99	Ethylene/ethane separation in a stable hydrogen-bonded organic framework through a gating mechanism. <i>Nature Chemistry</i> , <b>2021</b> , 13, 933-939	17.6	45
98	A novel electrochemiluminescence sensor based on Ru(bpy) <sub>3</sub> <sup>2+</sup> /N-doped carbon nanodots system for the detection of bisphenol A. <i>Analytica Chimica Acta</i> , <b>2015</b> , 895, 104-111	6.6	44
97	Atomic Force Microscopy and Molecular Dynamics Simulations for Study of Lignin Solution Self-Assembly Mechanisms in Organic-Aqueous Solvent Mixtures. <i>ChemSusChem</i> , <b>2020</b> , 13, 4420-4427	8.3	43

96	Guest-dependent pressure induced gate-opening effect enables effective separation of propene and propane in a flexible MOF. <i>Chemical Engineering Journal</i> , <b>2018</b> , 346, 489-496	14.7	41
95	Boosting Ethylene/Ethane Separation within Copper(I)-Chelated Metal-Organic Frameworks through Tailor-Made Aperture and Specific $\pi$ -Complexation. <i>Advanced Science</i> , <b>2020</b> , 7, 1901918	13.6	41
94	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 10304-10310	16.4	41
93	Direct electrochemistry of glucose oxidase on novel free-standing nitrogen-doped carbon nanospheres@carbon nanofibers composite film. <i>Scientific Reports</i> , <b>2015</b> , 5, 9885	4.9	40
92	Zeolite CAN and AFI-Type Zeolitic Imidazolate Frameworks with Large 12-Membered Ring Pore Openings Synthesized Using Bulky Amides as Structure-Directing Agents. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 16232-16235	16.4	39
91	Microporous Metal-Organic Framework with Dual Functionalities for Efficient Separation of Acetylene from Light Hydrocarbon Mixtures. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7,	8.3	39
90	Molecular Understanding of the Penetration of Functionalized Gold Nanoparticles into Asymmetric Membranes. <i>Langmuir</i> , <b>2017</b> , 33, 361-371	4	38
89	Computer simulations on the pH-sensitive tri-block copolymer containing zwitterionic sulfobetaine as a novel anti-cancer drug carrier. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 152, 260-268	6	37
88	Hierarchically structured metal-organic frameworks assembled by hydroxy double salt template synergy with high space-time yields. <i>CrystEngComm</i> , <b>2018</b> , 20, 1057-1064	3.3	32
87	Protein Translocation through a MoS <sub>2</sub> Nanopore: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 2070-2080	3.8	32
86	Flexible Metal-Organic Frameworks with Discriminatory Gate-Opening Effect for the Separation of Acetylene from Ethylene/Acetylene Mixtures. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 4457-4462	2.3	32
85	Enhanced electrochemiluminescence based on Ru(bpy) <sub>3</sub> <sup>2+</sup> -doped silica nanoparticles and graphene composite for analysis of melamine in milk. <i>Analytica Chimica Acta</i> , <b>2014</b> , 824, 57-63	6.6	30
84	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 15403-15408	3.6	30
83	Benchmark C <sub>2</sub> H <sub>2</sub> /CO Separation in an Ultra-Microporous Metal-Organic Framework via Copper(I)-Alkynyl Chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15995-16002	16.4	29
82	Protection of open-metal V(III) sites and their associated CO <sub>2</sub> /CH <sub>4</sub> /NO <sub>2</sub> /H <sub>2</sub> O adsorption properties in mesoporous V-MOFs. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 456, 197-205	9.3	28
81	Opportunities and critical factors of porous metal-organic frameworks for industrial light olefins separation. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 1954-1984	7.8	28
80	Amorphous flower-like molybdenum-sulfide@nitrogen-doped-carbon-nanofiber film for use in the hydrogen-evolution reaction. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 472, 69-75	9.3	28
79	Adsorption and separation of CO <sub>2</sub> on Fe(II)-MOF-74: Effect of the open metal coordination site. <i>Journal of Solid State Chemistry</i> , <b>2014</b> , 213, 224-228	3.3	28

78	Liquid-Liquid Equilibria for the Ternary System Mesityl Oxide + Phenol + Water at 298.15, 313.15, and 323.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 2493-2498	2.8	27
77	Surface Regulation Towards Stimuli-Responsive Luminescence of Ultrasmall Thiolated Gold Nanoparticles for Ratiometric Imaging. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806945	15.6	26
76	A comprehensive study of the enantioseparation of chiral drugs by cyclodextrin using capillary electrophoresis combined with theoretical approaches. <i>Talanta</i> , <b>2015</b> , 142, 28-34	6.2	26
75	A Microporous Hydrogen-Bonded Organic Framework for the Efficient Capture and Purification of Propylene. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 20400-20406	16.4	26
74	Reversing CH-CO adsorption selectivity in an ultramicroporous metal-organic framework platform. <i>Chemical Communications</i> , <b>2019</b> , 55, 11354-11357	5.8	25
73	Separation of CO <sub>2</sub> /CH <sub>4</sub> and CH <sub>4</sub> /N <sub>2</sub> mixtures using MOF-5 and Cu <sub>3</sub> (BTC) <sub>2</sub> . <i>Journal of Energy Chemistry</i> , <b>2014</b> , 23, 453-460	12	25
72	Application of ionic liquid as additive in determination of three $\beta$ -agonists by capillary electrophoresis with amperometric detection. <i>Electrophoresis</i> , <b>2013</b> , 34, 277-83	3.6	25
71	Water Transport with Ultralow Friction through Partially Exfoliated g-C <sub>3</sub> N <sub>4</sub> Nanosheet Membranes with Self-Supporting Spacers. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 9102-9108	3.6	24
70	Targeted capture and pressure/temperature-responsive separation in flexible metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 22574-22583	13	24
69	Ammonia capture and flexible transformation of M-2(INA) (M=Cu, Co, Ni, Cd) series materials. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 306, 340-347	12.8	24
68	Nickel-4'-(3,5-dicarboxyphenyl)-2,2',6',2''-terpyridine Framework: Efficient Separation of Ethylene from Acetylene/Ethylene Mixtures with a High Productivity. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 9489-9494	5.1	22
67	Efficient Purification of Ethylene from C Hydrocarbons with an CH/CH-Selective Metal-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 962-969	9.5	22
66	Solvent effect on xylose conversion under catalyst-free conditions: insights from molecular dynamics simulation and experiments. <i>Green Chemistry</i> , <b>2020</b> , 22, 532-539	10	22
65	Separation of C <sub>2</sub> /C <sub>1</sub> hydrocarbons through a gate-opening effect in a microporous metal-organic framework. <i>CrystEngComm</i> , <b>2017</b> , 19, 6896-6901	3.3	21
64	Adsorption and separation of propane/propylene on various ZIF-8 polymorphs: Insights from GCMC simulations and the ideal adsorbed solution theory (IAST). <i>Chemical Engineering Journal</i> , <b>2020</b> , 386, 123945	14.7	21
63	Understanding the Cellular Uptake of pH-Responsive Zwitterionic Gold Nanoparticles: A Computer Simulation Study. <i>Langmuir</i> , <b>2017</b> , 33, 14480-14489	4	20
62	Exploiting the pore size and functionalization effects in UiO topology structures for the separation of light hydrocarbons. <i>CrystEngComm</i> , <b>2017</b> , 19, 1729-1737	3.3	19
61	Removal of Ammonia Emissions via Reversible Structural Transformation in M(BDC) (M = Cu, Zn, Cd) Metal-Organic Frameworks. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 3636-3642	10.3	17

60	Fluorinated Biphenyldicarboxylate-Based Metal-Organic Framework Exhibiting Efficient Propyne/Propylene Separation. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 4030-4036	5.1	17
59	Phase Behavior of an Amphiphilic Block Copolymer in Ionic Liquid: A Dissipative Particle Dynamics Study. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 3998-4005	2.8	17
58	An Ultramicroporous Metal-Organic Framework for Sieving Separation of Carbon Dioxide from Methane. <i>Small Structures</i> , <b>2020</b> , 1, 2000022	8.7	16
57	Microporous metal-organic framework with specific functional sites for efficient removal of ethane from ethane/ethylene mixtures. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124137	14.7	15
56	Liquid-Liquid Equilibria for the Methyl Tert-Butyl Ketone + Phenol + Water Ternary System at 298.15, 313.15 and 323.15 K. <i>Journal of Solution Chemistry</i> , <b>2015</b> , 44, 1891-1899	1.8	14
55	Measurement and Correlation of Liquid-Liquid Equilibria for the Ternary Methyl Isobutyl Ketone + Phenol + Water System at (333.15, 343.15 and 353.15) K under Atmospheric Pressure. <i>Journal of Solution Chemistry</i> , <b>2016</b> , 45, 875-884	1.8	14
54	Computer Simulations on the Channel Membrane Formation by Nonsolvent Induced Phase Separation. <i>Macromolecular Theory and Simulations</i> , <b>2017</b> , 26, 1700027	1.5	14
53	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 10392-10398	3.6	14
52	Phase Equilibrium for Phenol Extraction from Aqueous Solution with 2-Pentanone at Different Temperatures. <i>Journal of Solution Chemistry</i> , <b>2016</b> , 45, 1414-1424	1.8	14
51	Reversed ethane/ethylene adsorption in a metal-organic framework introduction of oxygen. <i>Chinese Journal of Chemical Engineering</i> , <b>2020</b> , 28, 593-593	3.2	14
50	Ternary Liquid-Liquid Equilibria for the System 2-Methoxy-2-methylpropane + m-Cresol + Water at 298.15 and 313.15 K: Experimental Data and Correlation. <i>Journal of Solution Chemistry</i> , <b>2015</b> , 44, 2393-2404	1.8	13
49	Computer Simulation of DNA Condensation by PAMAM Dendrimer. <i>Macromolecular Theory and Simulations</i> , <b>2018</b> , 27, 1700070	1.5	13
48	CO <sub>2</sub> /CH <sub>4</sub> and CH <sub>4</sub> /N <sub>2</sub> separation on isomeric metal organic frameworks. <i>Chinese Journal of Chemical Engineering</i> , <b>2016</b> , 24, 1687-1694	3.2	13
47	Microregulation of Pore Channels in Covalent-Organic Frameworks Used for the Selective and Efficient Separation of Ethane. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 52819-52825	9.5	13
46	Robust Microporous Metal-Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 10315-10320	3.6	12
45	Ethylenediamine-functionalized metal organic frameworks MIL-100(Cr) for efficient CO <sub>2</sub> /N <sub>2</sub> O separation. <i>Separation and Purification Technology</i> , <b>2020</b> , 235, 116219	8.3	12
44	Functionalized Metal-Organic Frameworks for the Efficient Removal of Low Concentrations of Ammonia. <i>ChemPlusChem</i> , <b>2016</b> , 81, 222-228	2.8	12
43	Optimized pore environment for efficient high selective C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> and C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> separation in a metal-organic framework. <i>Separation and Purification Technology</i> , <b>2021</b> , 256, 117749	8.3	12

42	Adsorption and molecular simulation of CO <sub>2</sub> and CH <sub>4</sub> in two-dimensional metal-organic frameworks with the same layered substrate. <i>CrystEngComm</i> , <b>2013</b> , 15, 6782	3.3	11
41	Modification of the pore environment in UiO-type metal-organic framework toward boosting the separation of propane/propylene. <i>Chemical Engineering Journal</i> , <b>2021</b> , 403, 126428	14.7	11
40	A novel dark-field microscopy technique coupled with capillary electrophoresis for visual analysis of single nanoparticles. <i>Analyst, The</i> , <b>2013</b> , 138, 3705-10	5	10
39	Benchmark C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> Separation in an Ultra-Microporous Metal-Organic Framework via Copper(I)-Alkynyl Chemistry. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16131-16138	3.6	10
38	Rational Construction and Performance Regulation of an In(III)-Tetraisophthalate Framework for One-Step Adsorption-Phase Purification of CH <sub>4</sub> from C Hydrocarbons. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 10819-10829	5.1	9
37	An ethane-favored metal-organic framework with tailored pore environment used for efficient ethylene separation. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 320, 111096	5.3	8
36	Direct Functionalization of the Open Metal Sites in Rare Earth-Based Metal-Organic Frameworks Used for the Efficient Separation of Ethylene. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 6123-6129	3.9	7
35	Small molecule solvation changes due to the presence of salt are governed by the cost of solvent cavity formation and dispersion. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 22D518	3.9	7
34	One-dimensional interpenetrated coordination polymers showing step gas sorption properties. <i>CrystEngComm</i> , <b>2013</b> , 15, 1689	3.3	7
33	Application of hierarchically porous metal-organic frameworks in heterogeneous catalysis: A review. <i>Science China Materials</i> , <b>2022</b> , 65, 298-320	7.1	7
32	Reversible flexible structural changes in multidimensional MOFs by guest molecules (I <sub>2</sub> , NH <sub>3</sub> ) and thermal stimulation. <i>Journal of Solid State Chemistry</i> , <b>2015</b> , 226, 114-119	3.3	6
31	Liquid Phase Equilibria of the Water + Propionic or Butyric Acid + Methyl tert-Butyl Ketone Ternary Systems at (298.15 and 323.15) K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 2612-2617	2.8	6
30	Tie-Line Data for Aqueous Mixtures of Butyric Acid with Diisopropyl Ether at Various Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 760-765	2.8	6
29	Solvent effect on xylose-to-furfural reaction in biphasic systems: combined experiments with theoretical calculations. <i>Green Chemistry</i> ,	10	6
28	The inorganic cation-tailored "trapdoor" effect of silicoaluminophosphate zeolite for highly selective CO separation. <i>Chemical Science</i> , <b>2021</b> , 12, 8803-8810	9.4	6
27	Research on CO <sub>2</sub> -N <sub>2</sub> O separation using flexible metal organic frameworks. <i>Separation and Purification Technology</i> , <b>2020</b> , 251, 117311	8.3	5
26	A Thermally and Chemically Stable Copper(II) Metal-Organic Framework with High Performance for Gas Adsorption and Separation. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 6550-6558	5.1	5
25	Construction of a Porous Metal-Organic Framework with a High Density of Open Cr Sites for Record N <sub>2</sub> /O <sub>2</sub> Separation. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100866	24	5

24	Construction of saturated coordination titanium-based metal-organic framework for one-step C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>6</sub> /C <sub>2</sub> H <sub>4</sub> separation. <i>Separation and Purification Technology</i> , <b>2021</b> , 276, 119284	8.3	5
23	Phase Equilibrium Measurement and Thermodynamic Modeling of the 4-Methylpentan-2-one/3-Methylphenol, and 4-Methylphenol/Water Ternary Systems at 298.2, 313.2, and 323.2 K and 0.1 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 141-147	2.8	4
22	On-line focusing of 5-hydroxy-tryptamine type 3 receptor antagonists via the combination of field-enhanced sample injection and dynamic pH junction in capillary electrophoresis with amperometric detection. <i>Journal of Chromatography A</i> , <b>2014</b> , 1331, 117-22	4.5	4
21	Liquid-Liquid Equilibrium of Ternary Systems of Methyl Isobutyl Ketone + o-Cresol + Water at 298.2, 313.2 and 323.2 K. <i>Journal of Solution Chemistry</i> , <b>2017</b> , 46, 2204-2213	1.8	4
20	RESEARCH ON THE ADSORPTION OF O <sub>2</sub> IN METAL-ORGANIC FRAMEWORKS WITH OPEN MANGANESE(II) COORDINATION SITES. <i>Functional Materials Letters</i> , <b>2013</b> , 06, 1350004	1.2	4
19	A stable metal-organic framework with well-matched pore cavity for efficient acetylene separation. <i>AIChE Journal</i> , <b>2021</b> , 67, e17152	3.6	4
18	Boosting molecular recognition of acetylene in UiO-66 framework through pore environment functionalization. <i>Chemical Engineering Science</i> , <b>2021</b> , 237, 116572	4.4	4
17	Ammonia Modification on UTSA-280 for C <sub>2</sub> H <sub>4</sub> /C <sub>2</sub> H <sub>6</sub> Separation. <i>Acta Chimica Sinica</i> , <b>2020</b> , 78, 534	3.3	3
16	Lysozyme Adsorption on Porous Organic Cages: A Molecular Simulation Study. <i>Langmuir</i> , <b>2020</b> , 36, 12292-12308	4.1	3
15	Identical Composition and Distinct Performance: How ZIF-8 Polymorphs Structures Affect the Adsorption/Separation of Ethane and Ethene. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2021</b> , 66, 3483-3492	2.8	3
14	Substituent-Induced Electron-Transfer Strategy for Selective Adsorption of N in MIL-101(Cr)-X Metal-Organic Frameworks.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	3
13	Selective adsorption of propene over propane on Li-decorated poly (triazine imide). <i>Green Energy and Environment</i> , <b>2020</b> , 7, 307-307	5.7	2
12	A Microporous Hydrogen-Bonded Organic Framework for the Efficient Capture and Purification of Propylene. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 20563-20569	3.6	2
11	Molecular dynamics simulation on DNA translocating through MoS <sub>2</sub> nanopores with various structures. <i>Frontiers of Chemical Science and Engineering</i> , <b>2021</b> , 15, 922-934	4.5	2
10	Energy efficient ethylene purification in a commercially viable ethane-selective MOF. <i>Separation and Purification Technology</i> , <b>2021</b> , 282, 120126	8.3	1
9	Ultrafine tuning of the pore size in zeolite A for efficient propyne removal from propylene. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 37, 217-217	3.2	1
8	The efficient separation of NO/CO using unsaturated Fe sites in MIL-100Fe. <i>Chemical Communications</i> , <b>2021</b> , 57, 6636-6639	5.8	1
7	Enriching Low-Concentration Coalbed Methane Using a Hydrophobic Adsorbent under Humid Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 12689-12697	3.9	1

6	Lysozyme Adsorption on Different Functionalized MXenes: A Multiscale Simulation Study. <i>Langmuir</i> , <b>2021</b> , 37, 5932-5942	4	o
5	Synthesis and Structural Characterization of a Two-Dimensional Magnesium Acetate, Mg <sub>7</sub> (OH) <sub>2</sub> (OAc) <sub>12</sub> (H <sub>2</sub> O) <sub>4</sub> ·4H <sub>2</sub> O, a Precursor to Three-Dimensional Porous Magnesium Acetate. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 3299-3304	2.3	o
4	Stable titanium metal-organic framework with strong binding affinity for ethane removal. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 42, 35-35	3.2	o
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2	Integrating tri-mural nanotraps into a microporous metal-organic framework for C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> and C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> separation. <i>Separation and Purification Technology</i> , <b>2022</b> , 296, 121404	8.3	o
1	Construction of a Porous Metal-Organic Framework with a High Density of Open Cr Sites for Record N <sub>2</sub> /O <sub>2</sub> Separation (Adv. Mater. 37/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170291	24	