

Zhiwei Qiao

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.

126
papers

4,245
citations

37
h-index

60
g-index

136
ext. papers

5,466
ext. citations

7.9
avg, IF

5.92
L-index

#	Paper	IF	Citations
126	Machine learning and in-silico screening of metal-organic frameworks for O ₂ /N ₂ dynamic adsorption and separation. <i>Chemical Engineering Journal</i> , 2022 , 427, 131604	14.7	9
125	Free-standing homochiral 2D monolayers by exfoliation of molecular crystals.. <i>Nature</i> , 2022 , 602, 606-614	150.4	14
124	Molecular-fingerprint machine-learning-assisted design and prediction for high-performance MOFs for capture of NMHCs from air 2022 , 1, 100026		2
123	Machine-Learning-Assisted High-Throughput Computational Screening of Metal-Organic Framework Membranes for Hydrogen Separation. <i>Chemical Engineering Journal</i> , 2022 , 136783	14.7	1
122	Pore Distortion in a Metal-Organic Framework for Regulated Separation of Propane and Propylene. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19300-19305	16.4	7
121	Mechanochemical synthesis of a robust cobalt-based metal-organic framework for adsorption separation methane from nitrogen. <i>Chemical Engineering Journal</i> , 2021 , 133876	14.7	0
120	Recent advances in adsorptive separation of ethane and ethylene by C ₂ H ₆ -selective MOFs and other adsorbents. <i>Chemical Engineering Journal</i> , 2021 , 431, 133208	14.7	11
119	Separation of propylene and propane with pillar-layer metal-organic frameworks by exploiting thermodynamic-kinetic synergetic effect. <i>Chemical Engineering Journal</i> , 2021 , 133284	14.7	0
118	Highly Efficient Capture of Postcombustion Generated CO ₂ through a Copper-Based Metal-Organic Framework. <i>Energy & Fuels</i> , 2021 , 35, 610-617	4.1	7
117	Insights into the Structure-Activity Relationship in Aerobic Alcohol Oxidation over a Metal-Organic-Framework-Supported Molybdenum(VI) Catalyst. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4302-4310	16.4	17
116	Kinome profiling analysis identified Src pathway as a novel therapeutic target in combination with histone deacetylase inhibitors for cutaneous T-cell lymphoma. <i>Journal of Dermatological Science</i> , 2021 , 101, 194-201	4.3	1
115	Tuning the Structural Flexibility for Multi-Responsive Gas Sorption in Isonicotinate-Based Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16820-16827	9.5	10
114	Metal-Organic Frameworks for Xylene Separation: From Computational Screening to Machine Learning. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7839-7848	3.8	6
113	Solution-Processable Metal-Organic Framework Nanosheets with Variable Functionalities. <i>Advanced Materials</i> , 2021 , 33, e2101257	24	8
112	Adsorption behavior of metal-organic frameworks: From single simulation, high-throughput computational screening to machine learning. <i>Computational Materials Science</i> , 2021 , 193, 110383	3.2	6
111	Molecular fingerprint and machine learning to accelerate design of high-performance homochiral metal-organic frameworks. <i>AIChE Journal</i> , 2021 , 67, e17352	3.6	2
110	Chiral metal-organic frameworks with tunable catalytic selectivity in asymmetric transfer hydrogenation reactions. <i>Nano Research</i> , 2021 , 14, 466-472	10	18

109	Implanting polyethylene glycol into MIL-101(Cr) as hydrophobic barrier for enhancing toluene adsorption under highly humid environment. <i>Chemical Engineering Journal</i> , 2021 , 404, 126562	14.7	19
108	A Ni-based metal-organic framework with super-high C ₃ H ₈ uptake for adsorptive separation of light alkanes. <i>Separation and Purification Technology</i> , 2021 , 266, 118198	8.3	3
107	Techno-economic analysis of metal-organic frameworks for adsorption heat pumps chillers: from directional computational screening, machine learning to experiment. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7656-7666	13	7
106	Preferential adsorption of ethane over ethylene on a Zr-based metal-organic framework: impacts of C ₂ H ₂ /N hydrogen bonding. <i>New Journal of Chemistry</i> , 2021 , 45, 8045-8053	3.6	6
105	Metal-Organic Frameworks: Solution-Processable Metal-Organic Framework Nanosheets with Variable Functionalities (Adv. Mater. 29/2021). <i>Advanced Materials</i> , 2021 , 33, 2170228	24	0
104	Predicting adsorption and separation performance indicators of Xe/Kr in metal-organic frameworks via a precursor-based neural network model. <i>Chemical Engineering Science</i> , 2021 , 243, 116772	4.4	1
103	Structural Diversity of Zirconium Metal-Organic Frameworks and Effect on Adsorption of Toxic Chemicals. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21428-21438	16.4	44
102	Molecular Understanding and Design of Porous Polyurethane Hydrogels with Ultralow-Oil-Adhesion for Oil-Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56530-56540 ¹¹	9.5	11
101	Improving CH ₄ /N ₂ selectivity within isomeric Al-based MOFs for the highly selective capture of coal-mine methane. <i>AIChE Journal</i> , 2020 , 66, e16287	3.6	16
100	Selective extraction of methane from C ₁ /C ₂ /C ₃ on moisture-resistant MIL-142A with interpenetrated networks. <i>Chemical Engineering Journal</i> , 2020 , 395, 125057	14.7	9
99	Room-Temperature Synthesis of Pyr1/3@CuBTC with Enhanced Stability and Its Excellent Performance for Separation of Propylene/Propane. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 6202-6209	3.9	6
98	Synthesis and Adsorption Performance of Ag/Al ₂ O ₃ with High Adsorption Capacities for Dibenzyl Disulfide. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 6164-6171	3.9	3
97	Machine learning and high-throughput computational screening of hydrophobic metal-organic frameworks for capture of formaldehyde from air. <i>Green Energy and Environment</i> , 2020 ,	5.7	14
96	Fe-Encapsulated ZSM-5 Zeolite with Nanosheet-Assembled Structure for the Selective Catalytic Reduction of NO _x with NH ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8592-8600	3.9	5
95	Large-Scale Screening and Machine Learning to Predict the Computation-Ready, Experimental Metal-Organic Frameworks for CO ₂ Capture from Air. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 569	2.6	23
94	Machine Learning and High-throughput Computational Screening of Metal-organic Framework for Separation of Methane/ethane/propane. <i>Acta Chimica Sinica</i> , 2020 , 78, 427	3.3	9
93	Efficient adsorptive separation of propene over propane through a pillar-layer cobalt-based metal-organic framework. <i>AIChE Journal</i> , 2020 , 66, e16858	3.6	16
92	Self-Assembly of Highly Stable Zirconium(IV) Coordination Cages with Aggregation Induced Emission Molecular Rotors for Live-Cell Imaging. <i>Angewandte Chemie</i> , 2020 , 132, 10237-10245	3.6	8

91	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> , 2020 , 386, 1239-1245	14.7	21
90	Self-Assembly of Highly Stable Zirconium(IV) Coordination Cages with Aggregation Induced Emission Molecular Rotors for Live-Cell Imaging. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10151-10159	16.4	55
89	Machine learning and in silico discovery of metal-organic frameworks: Methanol as a working fluid in adsorption-driven heat pumps and chillers. <i>Chemical Engineering Science</i> , 2020 , 214, 115430	4.4	26
88	Highly rapid mechanochemical synthesis of a pillar-layer metal-organic framework for efficient CH ₄ /N ₂ separation. <i>Chemical Engineering Journal</i> , 2020 , 385, 123836	14.7	26
87	Tuning the Atrazine Binding Sites in an Indium-Based Flexible Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44762-44768	9.5	9
86	Machine-learning-assisted high-throughput computational screening of high performance metal-organic frameworks. <i>Molecular Systems Design and Engineering</i> , 2020 , 5, 725-742	4.6	37
85	Combining large-scale screening and machine learning to predict the metal-organic frameworks for organosulfurs removal from high-sour natural gas. <i>APL Materials</i> , 2019 , 7, 091101	5.7	11
84	Zirconium-Based Metal-Organic Framework with 9-Connected Nodes for Ammonia Capture. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6098-6102	5.6	37
83	Rapid room temperature conversion of hydroxy double salt to MOF-505 for CO ₂ capture. <i>CrystEngComm</i> , 2019 , 21, 165-171	3.3	8
82	Encapsulation and Protection of Ultrathin Two-Dimensional Porous Organic Nanosheets within Biocompatible Metal-Organic Frameworks for Live-Cell Imaging. <i>Chemistry of Materials</i> , 2019 , 31, 4897-4912	9.6	17
81	Ethane-Selective Behavior Achieved on a Nickel-Based Metal-Organic Framework: Impact of Pore Effect and Hydrogen Bonds. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 10516-10523	3.9	9
80	Amino Acid Imprinted UiO-66s for Highly Recognized Adsorption of Small Angiotensin-Converting-Enzyme-Inhibitory Peptides. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23039-23049	9.5	22
79	Moisture stability of ethane-selective Ni(II), Fe(III), Zr(IV)-based metal-organic frameworks. <i>AIChE Journal</i> , 2019 , 65, e16616	3.6	20
78	Identifying the best metal-organic frameworks and unravelling different mechanisms for the separation of pentane isomers. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 609-615	4.6	7
77	Cerium Doped Pt/TiO ₂ for Catalytic Oxidation of Low Concentration Formaldehyde at Room Temperature. <i>Catalysis Letters</i> , 2019 , 149, 1319-1325	2.8	7
76	Development of Iron Encapsulated Hollow Beta Zeolites for Ammonia Selective Catalytic Reduction. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2914-2923	3.9	7
75	Establishment and characterization of a novel dedifferentiated chondrosarcoma cell line, NCC-dCS1-C1. <i>Human Cell</i> , 2019 , 32, 202-213	4.5	5
74	Functional UiO-66 for the removal of sulfur-containing compounds in gas and liquid mixtures: A molecular simulation study. <i>Chemical Engineering Journal</i> , 2019 , 356, 737-745	14.7	10

73	Ultrahigh CO ₂ /CH ₄ and CO ₂ /N ₂ adsorption selectivities on a cost-effectively L-aspartic acid based metal-organic framework. <i>Chemical Engineering Journal</i> , 2019 , 375, 122074	14.7	26
72	Novel Hierarchical Fe(III)-Doped Cu-MOFs With Enhanced Adsorption of Benzene Vapor. <i>Frontiers in Chemistry</i> , 2019 , 7, 652	5	12
71	Computational Screening of Metal-Organic Framework Membranes for the Separation of 15 Gas Mixtures. <i>Nanomaterials</i> , 2019 , 9,	5.4	13
70	A new anti-biofilm strategy of enabling arbitrary surfaces of materials and devices with robust bacterial anti-adhesion via a spraying modified microsphere method. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26039-26052	13	104
69	Superoxide Decay Pathways in Oxygen Reduction Reaction on Carbon-Based Catalysts Evidenced by Theoretical Calculations. <i>ChemSusChem</i> , 2019 , 12, 1133-1138	8.3	12
68	An indium-based ethane-trapping MOF for efficient selective separation of C ₂ H ₆ /C ₂ H ₄ mixture. <i>Separation and Purification Technology</i> , 2019 , 212, 51-56	8.3	32
67	Mn ₃ O ₄ @C Nanoparticles Supported on Porous Carbon as Bifunctional Oxygen Electrodes and their Electrocatalytic Mechanism. <i>ChemElectroChem</i> , 2019 , 6, 359-368	4.3	17
66	Novel glucosamine-based carbon adsorbents with high capacity and its enhanced mechanism of preferential adsorption of C ₂ H ₆ over C ₂ H ₄ . <i>Chemical Engineering Journal</i> , 2019 , 358, 1114-1125	14.7	33
65	Hydrophobic Shielding of Outer Surface: Enhancing the Chemical Stability of Metal-Organic Polyhedra. <i>Angewandte Chemie</i> , 2019 , 131, 1053-1057	3.6	7
64	Hydrophobic Shielding of Outer Surface: Enhancing the Chemical Stability of Metal-Organic Polyhedra. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1041-1045	16.4	31
63	Selective Adsorption of Ethane over Ethylene in PCN-245: Impacts of Interpenetrated Adsorbent. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8366-8373	9.5	77
62	Iron-Based Metal-Organic Framework with Hydrophobic Quadrilateral Channels for Highly Selective Separation of Hexane Isomers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6031-6038	9.5	27
61	Liquid-Assisted Mechanochemical Synthesis of Copper Based MOF-505 for the Separation of CO ₂ over CH ₄ or N ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 703-709	3.9	48
60	High-throughput computational screening of metal-organic framework membranes for upgrading of natural gas. <i>Journal of Membrane Science</i> , 2018 , 551, 47-54	9.6	53
59	Protein Translocation through a MoS ₂ Nanopore: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2070-2080	3.8	32
58	Topologically guided tuning of Zr-MOF pore structures for highly selective separation of C ₆ alkane isomers. <i>Nature Communications</i> , 2018 , 9, 1745	17.4	166
57	Highly Adsorptive Separation of Ethane/Ethylene by An Ethane-Selective MOF MIL-142A. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4063-4069	3.9	61
56	An ethane-trapping MOF PCN-250 for highly selective adsorption of ethane over ethylene. <i>Chemical Engineering Science</i> , 2018 , 175, 110-117	4.4	125

55	Highly selective adsorption separation of light hydrocarbons with a porphyrinic zirconium metal-organic framework PCN-224. <i>Separation and Purification Technology</i> , 2018 , 207, 262-268	8.3	33
54	An Ultramicroporous Nickel-Based Metal-Organic Framework for Adsorption Separation of CO ₂ over N ₂ or CH ₄ . <i>Energy & Fuels</i> , 2018 , 32, 8676-8682	4.1	14
53	A pillar-layer metal-organic framework for efficient adsorption separation of propylene over propane. <i>Separation and Purification Technology</i> , 2018 , 204, 75-80	8.3	19
52	Selective Adsorptive Separation of CO ₂ /CH ₄ and CO ₂ /N ₂ by a Water Resistant Zirconium Porphyrin Metal-Organic Framework. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 12215-12224	3.9	28
51	High-Throughput Screening of Metal-Organic Frameworks for the Separation of Hydrogen Sulfide and Carbon Dioxide from Natural Gas. <i>Acta Chimica Sinica</i> , 2018 , 76, 785	3.3	10
50	Molecular simulation study of wet flue gas adsorption on zeolite 13X. <i>Microporous and Mesoporous Materials</i> , 2018 , 261, 181-197	5.3	29
49	Design and self-assembly of hexahedral coordination cages for cascade reactions. <i>Nature Communications</i> , 2018 , 9, 4423	17.4	49
48	Unusual Moisture-Enhanced CO Capture within Microporous PCN-250 Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38638-38647	9.5	33
47	Pazopanib-induced changes in protein expression signatures of extracellular vesicles in synovial sarcoma. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 506, 723-730	3.4	1
46	A novel fructose-based adsorbent with high capacity and its ethane-selective adsorption property. <i>Journal of Solid State Chemistry</i> , 2018 , 268, 190-197	3.3	9
45	Computational screening of hydrophobic metal-organic frameworks for the separation of H ₂ S and CO ₂ from natural gas. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18898-18905	13	52
44	Selective gas diffusion in two-dimensional MXene lamellar membranes: insights from molecular dynamics simulations. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11734-11742	13	61
43	Establishment and characterization of novel patient-derived osteosarcoma xenograft and cell line. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2018 , 54, 528-536	2.6	11
42	A gemini-type superspreader: Synthesis, spreading behavior and superspreading mechanism. <i>Chemical Engineering Journal</i> , 2017 , 315, 262-273	14.7	14
41	Selective Adsorption of Light Alkanes on a Highly Robust Indium Based Metal-Organic Framework. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4488-4495	3.9	36
40	Formation of willow leaf-like structures composed of NH ₂ -MIL68(In) on a multifunctional multiwalled carbon nanotube backbone for enhanced photocatalytic reduction of Cr(VI). <i>Nano Research</i> , 2017 , 10, 3543-3556	10	51
39	Efficient Mechanochemical Synthesis of MOF-5 for Linear Alkanes Adsorption. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 2030-2036	2.8	64
38	Molecular Design of Zirconium Tetrazolate Metal-Organic Frameworks for CO ₂ Capture. <i>Crystal Growth and Design</i> , 2017 , 17, 543-549	3.5	25

37	High-Throughput Computational Screening of Metal-Organic Frameworks for Thiol Capture. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22208-22215	3.8	25
36	Efficient adsorptive separation of C ₃ H ₆ over C ₃ H ₈ on flexible and thermoresponsive CPL-1. <i>Chemical Engineering Journal</i> , 2017 , 328, 360-367	14.7	45
35	Enhanced Adsorption Performance of Aromatics on a Novel Chromium-Based Oxide Composite. <i>Energy & Fuels</i> , 2017 , 31, 13985-13990	4.1	11
34	Generation of novel patient-derived CIC- DUX4 sarcoma xenografts and cell lines. <i>Scientific Reports</i> , 2017 , 7, 4712	4.9	29
33	Highly efficient mechanochemical synthesis of an indium based metal-organic framework with excellent water stability. <i>Chemical Engineering Science</i> , 2017 , 158, 539-544	4.4	47
32	A new MOF-505@GO composite with high selectivity for CO ₂ /CH ₄ and CO ₂ /N ₂ separation. <i>Chemical Engineering Journal</i> , 2017 , 308, 1065-1072	14.7	163
31	Proteomic approach toward determining the molecular background of pazopanib resistance in synovial sarcoma. <i>Oncotarget</i> , 2017 , 8, 109587-109595	3.3	10
30	Ethane selective adsorbent Ni(bdc)(ted) _{0.5} with high uptake and its significance in adsorption separation of ethane and ethylene. <i>Chemical Engineering Science</i> , 2016 , 148, 275-281	4.4	98
29	In silico screening of 4764 computation-ready, experimental metal-organic frameworks for CO ₂ separation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2105-2114	13	84
28	Design of amine-functionalized metal-organic frameworks for CO ₂ separation: the more amine, the better?. <i>Chemical Communications</i> , 2016 , 52, 974-7	5.8	62
27	A novel bimetallic MIL-101(Cr, Mg) with high CO ₂ adsorption capacity and CO ₂ /N ₂ selectivity. <i>Chemical Engineering Science</i> , 2016 , 147, 109-117	4.4	86
26	Seawater Pervaporation through Zeolitic Imidazolate Framework Membranes: Atomistic Simulation Study. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13392-9	9.5	54
25	High-throughput computational screening of 137953 metal-organic frameworks for membrane separation of a CO ₂ /N ₂ /CH ₄ mixture. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15904-15912	13	70
24	Highly enhanced and weakened adsorption properties of two MOFs by water vapor for separation of CO ₂ /CH ₄ and CO ₂ /N ₂ binary mixtures. <i>Chemical Engineering Journal</i> , 2015 , 270, 385-392	14.7	77
23	Competitive adsorption of water vapor with VOCs dichloroethane, ethyl acetate and benzene on MIL-101(Cr) in humid atmosphere. <i>RSC Advances</i> , 2015 , 5, 1827-1834	3.7	73
22	Polydopamine-based synthesis of a zeolite imidazolate framework ZIF-100 membrane with high H ₂ /CO ₂ selectivity. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4722-4728	13	82
21	Designing new amine functionalized metal-organic frameworks for carbon dioxide/methane separation. <i>Fluid Phase Equilibria</i> , 2014 , 362, 342-348	2.5	13
20	Adsorption performance of a MIL-101(Cr)/graphite oxide composite for a series of n-alkanes. <i>RSC Advances</i> , 2014 , 4, 56216-56223	3.7	41

19	A novel MOF/graphene oxide composite GrO@MIL-101 with high adsorption capacity for acetone. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4722-4730	13	165
18	Preparation and Adsorption Performance of for Separation of CO ₂ /CH ₄ . <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11176-11184	3.9	101
17	Molecular dynamics simulations on the melting of gold nanoparticles. <i>Phase Transitions</i> , 2014 , 87, 59-70	1.3	30
16	Advanced Monte Carlo simulations of the adsorption of chiral alcohols in a homochiral metal-organic framework. <i>AIChE Journal</i> , 2014 , 60, 2324-2334	3.6	13
15	Experimental and molecular simulation studies of CO ₂ adsorption on zeolitic imidazolate frameworks: ZIF-8 and amine-modified ZIF-8. <i>Adsorption</i> , 2013 , 19, 25-37	2.6	85
14	Decomposition of Toluene in a Plasma Catalysis System with NiO, MnO ₂ , CeO ₂ , Fe ₂ O ₃ , and CuO Catalysts. <i>Plasma Chemistry and Plasma Processing</i> , 2013 , 33, 1073-1082	3.6	37
13	Enhancement of CO ₂ Adsorption and CO ₂ /N ₂ Selectivity on ZIF-8 via Postsynthetic Modification. <i>AIChE Journal</i> , 2013 , 59, 2195-2206	3.6	137
12	Noble Gas Adsorption in Copper Trimesate, HKUST-1: An Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20116-20126	3.8	80
11	Adsorption Isotherms, Kinetics, and Desorption of 1,2-Dichloroethane on Chromium-Based Metal Organic Framework MIL-101. <i>Separation Science and Technology</i> , 2013 , 48, 1479-1489	2.5	41
10	Adsorption and Diffusion of Benzene on Chromium-Based Metal Organic Framework MIL-101 Synthesized by Microwave Irradiation. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 2254-2261	3.9	109
9	Adsorption and Diffusion of Ethyl Acetate on the Chromium-Based Metal Organic Framework MIL-101. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 3419-3425	2.8	26
8	Molecular simulation on the separation of water/ethanol azeotropic mixture by poly(vinyl alcohol) membrane. <i>Fluid Phase Equilibria</i> , 2011 , 302, 14-20	2.5	19
7	Role of Temperature in the Structure of Zn(II)-1,4,-BDC Metal-Organic Frameworks and their Adsorption and Diffusion Properties for Carbon Dioxide. <i>Separation Science and Technology</i> , 2011 , 46, 1337-1345	2.5	7
6	Adsorption of CO ₂ on Zeolite 13X and Activated Carbon with Higher Surface Area. <i>Separation Science and Technology</i> , 2010 , 45, 710-719	2.5	91
5	Effects of loading different metal ions on an activated carbon on the desorption activation energy of dichloromethane/trichloromethane. <i>Journal of Hazardous Materials</i> , 2010 , 179, 790-4	12.8	31
4	Adsorption of Benzothiophene and Dibenzothiophene on Ion-Impregnated Activated Carbons and Ion-Exchanged Y Zeolites. <i>Energy & Fuels</i> , 2008 , 22, 3858-3863	4.1	103
3	Effect of textural property of coconut shell-based activated carbon on desorption activation energy of benzothiophene. <i>Frontiers of Chemical Engineering in China</i> , 2008 , 2, 269-275		2
2	Estimation of Activation Energy of Desorption of n-Hexanol from Activated Carbons by the TPD Technique. <i>Adsorption Science and Technology</i> , 2003 , 21, 125-133	3.6	20

- 1 The modulation of ethane-selective adsorption performance in series of bimetal PCN-250 metal-organic frameworks: Impact of metal composition. *AIChE Journal*, e17385 3.6 3