

Zhiwei Qiao

List of Publications by Year in descending order

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135
papers

6,655
citations

46918

47
h-index

76769

74
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136
all docs

136
docs citations

136
times ranked

6224
citing authors

#	ARTICLE	IF	CITATIONS
1	Topologically guided tuning of Zr-MOF pore structures for highly selective separation of C6 alkane isomers. <i>Nature Communications</i> , 2018, 9, 1745.	5.8	251
2	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.	6.6	230
3	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.	5.2	202
4	An ethane-trapping MOF PCN-250 for highly selective adsorption of ethane over ethylene. <i>Chemical Engineering Science</i> , 2018, 175, 110-117.	1.9	177
5	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.	1.8	171
6	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.	1.9	141
7	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.	1.9	136
8	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.	5.2	134
9	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.	1.8	127
10	Preparation and Adsorption Performance of GrO@Cu-BTC for Separation of CO ₂ /CH ₄ . <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11176-11184.	1.8	124
11	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.	1.4	115
12	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.	6.6	115
13	Adsorption of Benzothiophene and Dibenzothiophene on Ion-Impregnated Activated Carbons and Ion-Exchanged Y Zeolites. <i>Energy & Fuels</i> , 2008, 22, 3858-3863.	2.5	112
14	Selective Adsorption of Ethane over Ethylene in PCN-245: Impacts of Interpenetrated Adsorbent. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8366-8373.	4.0	112
15	Adsorption of CO ₂ on Zeolite 13X and Activated Carbon with Higher Surface Area. <i>Separation Science and Technology</i> , 2010, 45, 710-719.	1.3	109
16	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.	5.2	109
17	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.	5.2	103
18	Efficient Mechanochemical Synthesis of MOF-5 for Linear Alkanes Adsorption. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2030-2036.	1.0	101

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19	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.	5.2	99
20	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.	7.2	99
21	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.	5.2	96
22	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.	6.6	95
23	Noble Gas Adsorption in Copper Trimesate, HKUST-1: An Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20116-20126.	1.5	92
24	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.	1.7	92
25	Highly Adsorptive Separation of Ethane/Ethylene by An Ethane-Selective MOF MIL-142A. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4063-4069.	1.8	88
26	Design and self-assembly of hexahedral coordination cages for cascade reactions. <i>Nature Communications</i> , 2018, 9, 4423.	5.8	85
27	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.	5.2	84
28	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.	6.6	81
29	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.	1.8	78
30	Design of amine-functionalized metal-organic frameworks for CO ₂ separation: the more amine, the better?. <i>Chemical Communications</i> , 2016, 52, 974-977.	2.2	76
31	Machine-learning-assisted high-throughput computational screening of high performance metal-organic frameworks. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 725-742.	1.7	74
32	High-throughput computational screening of metal-organic framework membranes for upgrading of natural gas. <i>Journal of Membrane Science</i> , 2018, 551, 47-54.	4.1	73
33	Seawater Pervaporation through Zeolitic Imidazolate Framework Membranes: Atomistic Simulation Study. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13392-13399.	4.0	72
34	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.	6.6	72
35	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.	3.9	67
36	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.	5.8	65

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37	Free-standing homochiral 2D monolayers by exfoliation of molecular crystals. <i>Nature</i> , 2022, 602, 606-611.	13.7	60
38	Selective Adsorption of Light Alkanes on a Highly Robust Indium Based Metal-Organic Framework. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4488-4495.	1.8	59
39	Zirconium-Based Metal-Organic Framework with 9-Connected Nodes for Ammonia Capture. <i>ACS Applied Nano Materials</i> , 2019, 2, 6098-6102.	2.4	59
40	Recent advances in adsorptive separation of ethane and ethylene by C ₂ H ₆ -selective MOFs and other adsorbents. <i>Chemical Engineering Journal</i> , 2022, 431, 133208.	6.6	58
41	Unusual Moisture-Enhanced CO ₂ Capture within Microporous PCN-250 Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38638-38647.	4.0	57
42	Highly efficient mechanochemical synthesis of an indium based metal-organic framework with excellent water stability. <i>Chemical Engineering Science</i> , 2017, 158, 539-544.	1.9	55
43	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.	6.6	55
44	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.	6.6	50
45	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.	1.3	49
46	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.	3.9	49
47	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.	6.6	49
48	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.	1.8	48
49	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.	6.6	48
50	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.	6.6	48
51	Adsorption performance of a MIL-101(Cr)/graphite oxide composite for a series of n-alkanes. <i>RSC Advances</i> , 2014, 4, 56216-56223.	1.7	47
52	Generation of novel patient-derived CIC-DUX4 sarcoma xenografts and cell lines. <i>Scientific Reports</i> , 2017, 7, 4712.	1.6	46
53	Protein Translocation through a MoS ₂ Nanopore: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2070-2080.	1.5	45
54	Hydrophobic Shielding of Outer Surface: Enhancing the Chemical Stability of Metal-Organic Polyhedra. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1041-1045.	7.2	45

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55	Molecular simulation study of wet flue gas adsorption on zeolite 13X. <i>Microporous and Mesoporous Materials</i> , 2018, 261, 181-197.	2.2	44
56	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.	1.1	43
57	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.	4.0	43
58	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.	1.9	43
59	Molecular dynamics simulations on the melting of gold nanoparticles. <i>Phase Transitions</i> , 2014, 87, 59-70.	0.6	42
60	Improving CH ₄ /N ₂ selectivity within isomeric Al-based MOFs for the highly selective capture of coalmine methane. <i>AIChE Journal</i> , 2020, 66, e16287.	1.8	42
61	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.	6.6	42
62	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.	1.3	41
63	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, 123945.	6.6	39
64	High-Throughput Computational Screening of Metal-Organic Frameworks for Thiol Capture. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22208-22215.	1.5	38
65	A pillar-layer metal-organic framework for efficient adsorption separation of propylene over propane. <i>Separation and Purification Technology</i> , 2018, 204, 75-80.	3.9	38
66	Molecular Design of Zirconium Tetrazolate Metal-Organic Frameworks for CO ₂ Capture. <i>Crystal Growth and Design</i> , 2017, 17, 543-549.	1.4	36
67	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.	6.6	36
68	A Microporous Metal-Organic Framework Incorporating Both Primary and Secondary Building Units for Splitting Alkane Isomers. <i>Journal of the American Chemical Society</i> , 2022, 144, 3766-3770.	6.6	36
69	Machine learning and high-throughput computational screening of hydrophobic metal-organic frameworks for capture of formaldehyde from air. <i>Green Energy and Environment</i> , 2021, 6, 759-770.	4.7	35
70	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, 790-794.	6.5	34
71	Efficient adsorptive separation of propene over propane through a pillar-layer cobalt-based metal-organic framework. <i>AIChE Journal</i> , 2020, 66, e16858.	1.8	34
72	Chiral metal-organic frameworks with tunable catalytic selectivity in asymmetric transfer hydrogenation reactions. <i>Nano Research</i> , 2021, 14, 466-472.	5.8	34

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73	Solution-Processable Metal-Organic Framework Nanosheets with Variable Functionalities. <i>Advanced Materials</i> , 2021, 33, e2101257.	11.1	33
74	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.	1.0	32
75	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.	1.7	32
76	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.	4.0	31
77	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.	4.0	30
78	Computational Screening of Metal-Organic Framework Membranes for the Separation of 15 Gas Mixtures. <i>Nanomaterials</i> , 2019, 9, 467.	1.9	28
79	Moisture stability of ethane-selective Ni(II), Fe(III), Zr(IV)-based metal-organic frameworks. <i>AIChE Journal</i> , 2019, 65, e16616.	1.8	28
80	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.	4.0	27
81	Machine-Learning-Assisted High-Throughput computational screening of Metal-Organic framework membranes for hydrogen separation. <i>Chemical Engineering Journal</i> , 2022, 446, 136783.	6.6	27
82	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.	1.5	25
83	Novel Hierarchical Fe(III)-Doped Cu-MOFs With Enhanced Adsorption of Benzene Vapor. <i>Frontiers in Chemistry</i> , 2019, 7, 652.	1.8	25
84	Metal-Organic Frameworks for Xylene Separation: From Computational Screening to Machine Learning. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7839-7848.	1.5	25
85	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.	2.5	23
86	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.	3.2	23
87	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, .	2.2	22
88	Molecular simulation on the separation of water/ethanol azeotropic mixture by poly(vinyl alcohol) membrane. <i>Fluid Phase Equilibria</i> , 2011, 302, 14-20.	1.4	21
89	Enhanced Adsorption Performance of Aromatics on a Novel Chromium-Based MIL-101@Graphite Oxide Composite. <i>Energy & Fuels</i> , 2017, 31, 13985-13990.	2.5	20
90	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.	5.2	20

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91	Adsorption behavior of metal-organic frameworks: From single simulation, high-throughput computational screening to machine learning. <i>Computational Materials Science</i> , 2021, 193, 110383.	1.4	20
92	A gemini-type superspreader: Synthesis, spreading behavior and superspreading mechanism. <i>Chemical Engineering Journal</i> , 2017, 315, 262-273.	6.6	19
93	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.	1.6	19
94	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.	3.9	18
95	Molecular-fingerprint machine-learning-assisted design and prediction for high-performance MOFs for capture of NMHCs from air. , 2022, 1, 100026.		18
96	Robust Nickel-Based Metal-Organic Framework for Highly Efficient Methane Purification and Capture. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4242-4250.	4.0	17
97	A new yttrium-based metal-organic framework for molecular sieving of propane from propylene with high propylene capacity. <i>AIChE Journal</i> , 2022, 68, .	1.8	17
98	Preferential adsorption of ethane over ethylene on a Zr-based metal-organic framework: impacts of C-H...N hydrogen bonding. <i>New Journal of Chemistry</i> , 2021, 45, 8045-8053.	1.4	16
99	Designing new amine functionalized metal-organic frameworks for carbon dioxide/methane separation. <i>Fluid Phase Equilibria</i> , 2014, 362, 342-348.	1.4	15
100	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.	6.6	15
101	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.	1.8	15
102	Cerium Doped Pt/TiO ₂ for Catalytic Oxidation of Low Concentration Formaldehyde at Room Temperature. <i>Catalysis Letters</i> , 2019, 149, 1319-1325.	1.4	15
103	Molecular fingerprint and machine learning to accelerate design of <sc>high-performance</sc> homochiral metal-organic frameworks. <i>AIChE Journal</i> , 2021, 67, e17352.	1.8	15
104	Advanced Monte Carlo simulations of the adsorption of chiral alcohols in a homochiral metal-organic framework. <i>AIChE Journal</i> , 2014, 60, 2324-2334.	1.8	14
105	Establishment and characterization of novel patient-derived osteosarcoma xenograft and cell line. In <i>Vitro Cellular and Developmental Biology - Animal</i> , 2018, 54, 528-536.	0.7	14
106	Highly Efficient Capture of Postcombustion Generated CO ₂ through a Copper-Based Metal-Organic Framework. <i>Energy & Fuels</i> , 2021, 35, 610-617.	2.5	14
107	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.	0.5	14
108	Selective, Stable Production of Ethylene Using a Pulsed Cu-Based Electrode. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19388-19396.	4.0	14

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109	Rapid room temperature conversion of hydroxy double salt to MOF-505 for CO ₂ capture. CrystEngComm, 2019, 21, 165-171.	1.3	13
110	Superoxide Decay Pathways in Oxygen Reduction Reaction on Carbon-Based Catalysts Evidenced by Theoretical Calculations. ChemSusChem, 2019, 12, 1133-1138.	3.6	13
111	Proteomic approach toward determining the molecular background of pazopanib resistance in synovial sarcoma. Oncotarget, 2017, 8, 109587-109595.	0.8	13
112	High-Throughput Screening of Metal-Organic Frameworks for the Separation of Hydrogen Sulfide and Carbon Dioxide from Natural Gas. Acta Chimica Sinica, 2018, 76, 785.	0.5	13
113	A novel fructose-based adsorbent with high capacity and its ethane-selective adsorption property. Journal of Solid State Chemistry, 2018, 268, 190-197.	1.4	12
114	Room-Temperature Synthesis of Pyr _{1/3} @Cu-BTC with Enhanced Stability and Its Excellent Performance for Separation of Propylene/Propane. Industrial & Engineering Chemistry Research, 2020, 59, 6202-6209.	1.8	12
115	Tuning the Atrazine Binding Sites in an Indium-Based Flexible Metal-Organic Framework. ACS Applied Materials & Interfaces, 2020, 12, 44762-44768.	4.0	11
116	Fe-Encapsulated ZSM-5 Zeolite with Nanosheet-Assembled Structure for the Selective Catalytic Reduction of NO _x with NH ₃ . Industrial & Engineering Chemistry Research, 2020, 59, 8592-8600.	1.8	11
117	The modulation of ethane-selective adsorption performance in series of bimetal PCN-250 metal-organic frameworks: Impact of metal composition. AIChE Journal, 2022, 68, e17385.	1.8	11
118	Development of Iron Encapsulated Hollow Beta Zeolites for Ammonia Selective Catalytic Reduction. Industrial & Engineering Chemistry Research, 2019, 58, 2914-2923.	1.8	10
119	Novel Granular Biomass-Based Carbons with Excellent C ₂ H ₆ /CH ₄ Selectivity for Recovering Light Hydrocarbons from Natural Gas. ACS Sustainable Chemistry and Engineering, 2022, 10, 5633-5642.	3.2	9
120	Identifying the best metal-organic frameworks and unravelling different mechanisms for the separation of pentane isomers. Molecular Systems Design and Engineering, 2019, 4, 609-615.	1.7	8
121	Hydrophobic Shielding of Outer Surface: Enhancing the Chemical Stability of Metal-Organic Polyhedra. Angewandte Chemie, 2019, 131, 1053-1057.	1.6	8
122	Role of Temperature in the Structure of Zn(II)-1,4-BDC Metal-Organic Frameworks and their Adsorption and Diffusion Properties for Carbon Dioxide. Separation Science and Technology, 2011, 46, 1337-1345.	1.3	7
123	Establishment and characterization of a novel dedifferentiated chondrosarcoma cell line, NCC-dCS1-C1. Human Cell, 2019, 32, 202-213.	1.2	7
124	Separation of propylene and propane with pillar-layer metal-organic frameworks by exploiting thermodynamic-kinetic synergetic effect. Chemical Engineering Journal, 2022, 431, 133284.	6.6	7
125	Synthesis and Adsorption Performance of Ag ³⁺ -Al ₂ O ₃ with High Adsorption Capacities for Dibenzyl Disulfide. Industrial & Engineering Chemistry Research, 2020, 59, 6164-6171.	1.8	6
126	Predicting adsorption and separation performance indicators of Xe/Kr in metal-organic frameworks via a precursor-based neural network model. Chemical Engineering Science, 2021, 243, 116772.	1.9	6

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127	Machine Learning-Assisted Computational Screening of Metal-Organic Frameworks for Atmospheric Water Harvesting. <i>Nanomaterials</i> , 2022, 12, 159.	1.9	6
128	A cobalt-based metal-organic framework for efficient separation of propene from propane via electrostatic effect. <i>AIChE Journal</i> , 2022, 68, .	1.8	6
129	Mechanochemical synthesis of a robust cobalt-based metal-organic framework for adsorption separation methane from nitrogen. <i>Chemical Engineering Journal</i> , 2022, 435, 133876.	6.6	5
130	Large-Scale Screening and Machine Learning for Metal-Organic Framework Membranes to Capture CO ₂ from Flue Gas. <i>Membranes</i> , 2022, 12, 700.	1.4	5
131	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.	1.0	4
132	Effect of textural property of coconut shell-based activated carbon on desorption activation energy of benzo thiophene. <i>Frontiers of Chemical Engineering in China</i> , 2008, 2, 269-275.	0.6	2
133	Pazopanib-induced changes in protein expression signatures of extracellular vesicles in synovial sarcoma. <i>Biochemical and Biophysical Research Communications</i> , 2018, 506, 723-730.	1.0	2
134	Metal-Organic Frameworks: Solution-Processable Metal-Organic Framework Nanosheets with Variable Functionalities (<i>Adv. Mater.</i> 29/2021). <i>Advanced Materials</i> , 2021, 33, 2170228.	11.1	2
135	Study of Corrosive Sulfur Adsorption by Modified $\gamma\text{-Al}_2\text{O}_3$. , 2020, , .		0