

# Xin Zhou

## List of Publications by Year in descending order

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35  
papers

1,877  
citations

236833

25  
h-index

395590

33  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2296  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Nickel-Based Metal-Organic Framework for Highly Efficient Methane Purification and Capture. ACS Applied Materials & Interfaces, 2022, 14, 4242-4250.	4.0	17
2	A new yttrium-based metal-organic framework for molecular sieving of propane from propylene with high propylene capacity. AIChE Journal, 2022, 68, .	1.8	17
3	Novel Granular Biomass-Based Carbons with Excellent C <sub>2</sub> /H <sub>6</sub> /CH <sub>4</sub> Selectivity for Recovering Light Hydrocarbons from Natural Gas. ACS Sustainable Chemistry and Engineering, 2022, 10, 5633-5642.	3.2	9
4	Adsorption Property of Starch-Based Microporous Carbon Materials with High Selectivity and Uptake for C1/C2/C3 Separation. Industrial & Engineering Chemistry Research, 2021, 60, 4668-4676.	1.8	13
5	Synthesis of novel particle rice-based carbon materials and its excellent CH <sub>4</sub> /N <sub>2</sub> adsorption selectivity for methane enrichment from Low-rank natural gas. Chemical Engineering Journal, 2020, 384, 123388.	6.6	57
6	Room temperature synthesis of Cu(Qc) <sub>2</sub> and its application for ethane capture from light hydrocarbons. Chemical Engineering Science, 2020, 213, 115355.	1.9	25
7	Enhancing Selective Adsorption in a Robust Pillared-Layer Metal-Organic Framework via Channel Methylation for the Recovery of C <sub>2</sub> -C <sub>3</sub> from Natural Gas. ACS Applied Materials & Interfaces, 2020, 12, 51499-51505.	4.0	50
8	Oxygen-Selective Adsorption Property of Ultramicroporous MOF Cu(Qc) <sub>2</sub> for Air Separation. Industrial & Engineering Chemistry Research, 2020, 59, 6219-6225.	1.8	18
9	Propane-selective design of zirconium-based MOFs for propylene purification. Chemical Engineering Science, 2020, 219, 115604.	1.9	20
10	Facile synthesis of ultramicroporous carbon adsorbents with ultra-high CH <sub>4</sub> uptake by in situ ionic activation. AIChE Journal, 2020, 66, e16231.	1.8	39
11	Novel room-temperature synthesis of MIL-100(Fe) and its excellent adsorption performances for separation of light hydrocarbons. Chemical Engineering Journal, 2019, 355, 679-686.	6.6	82
12	Enhanced CO <sub>2</sub> Adsorption and CO <sub>2</sub> /N <sub>2</sub> /CH <sub>4</sub> Selectivity of Novel Carbon Composites CPDA@A-Cs. Energy & Fuels, 2019, 33, 493-502.	2.5	28
13	Tuning secondary building unit of Cu-BTC to simultaneously enhance its CO <sub>2</sub> selective adsorption and stability under moisture. Chemical Engineering Journal, 2019, 355, 815-821.	6.6	56
14	Postsynthetic Strategy To Prepare ACN@Cu-BTCs with Enhanced Water Vapor Stability and CO <sub>2</sub> /CH <sub>4</sub> Separation Selectivity. Industrial & Engineering Chemistry Research, 2018, 57, 3765-3772.	1.8	37
15	Selective Adsorptive Separation of CO <sub>2</sub> /CH <sub>4</sub> and CO <sub>2</sub> /N <sub>2</sub> by a Water Resistant Zirconium-Porphyrin Metal-Organic Framework. Industrial & Engineering Chemistry Research, 2018, 57, 12215-12224.	1.8	48
16	Asphalt-derived high surface area activated porous carbons for the effective adsorption separation of ethane and ethylene. Chemical Engineering Science, 2017, 162, 192-202.	1.9	92
17	Surface Modification of Two-Dimensional Metal-Organic Layers Creates Biomimetic Catalytic Microenvironments for Selective Oxidation. Angewandte Chemie - International Edition, 2017, 56, 9704-9709.	7.2	155
18	Novel glucose-based adsorbents (Glc-Cs) with high CO <sub>2</sub> capacity and excellent CO <sub>2</sub> /CH <sub>4</sub> /N <sub>2</sub> adsorption selectivity. Chemical Engineering Journal, 2017, 327, 51-59.	6.6	54

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19	Surface Modification of Two-dimensional Metal-Organic Layers Creates Biomimetic Catalytic Microenvironments for Selective Oxidation. <i>Angewandte Chemie</i> , 2017, 129, 9836-9841.	1.6	38
20	A novel DOBDC-functionalized MIL-100(Fe) and its enhanced CO <sub>2</sub> capacity and selectivity. <i>Chemical Engineering Journal</i> , 2017, 321, 600-607.	6.6	36
21	Quenched breathing effect, enhanced CO <sub>2</sub> uptake and improved CO <sub>2</sub> /CH <sub>4</sub> selectivity of MIL-53(Cr)/graphene oxide composites. <i>Chemical Engineering Science</i> , 2017, 167, 98-104.	1.9	36
22	Frontispiece: Surface Modification of Two-dimensional Metal-Organic Layers Creates Biomimetic Catalytic Microenvironments for Selective Oxidation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, .	7.2	0
23	Frontispiz: Surface Modification of Two-dimensional Metal-Organic Layers Creates Biomimetic Catalytic Microenvironments for Selective Oxidation. <i>Angewandte Chemie</i> , 2017, 129, .	1.6	0
24	Electrocatalytic reduction of CO <sub>2</sub> to CO with 100% faradaic efficiency by using pyrolyzed zeolitic imidazolate frameworks supported on carbon nanotube networks. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24867-24873.	5.2	78
25	Selective Adsorption Performances of UiO-67 for Separation of Light Hydrocarbons C <sub>1</sub> , C <sub>2</sub> , and C <sub>3</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 8689-8696.	1.8	63
26	Adsorption performance of MIL-100(Fe) for separation of olefin-paraffin mixtures. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 70, 74-78.	2.7	27
27	Ultrafast room temperature synthesis of novel composites Imi@Cu-BTC with improved stability against moisture. <i>Chemical Engineering Journal</i> , 2017, 307, 537-543.	6.6	51
28	Novel C-PDA adsorbents with high uptake and preferential adsorption of ethane over ethylene. <i>Chemical Engineering Science</i> , 2016, 155, 338-347.	1.9	75
29	Ethane selective adsorbent Ni(bdc)(ted) <sub>0.5</sub> 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
30	Graphene-Immobilized $\text{Re}(\text{bipy})(\text{CO})_3\text{Cl}$ for Syngas Generation from Carbon Dioxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4192-4198.	4.0	21
31	Design, Synthesis, and Characterization of a Bifunctional Chelator with Ultrahigh Capacity for Uranium Uptake from Seawater Simulant. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 4170-4178.	1.8	25
32	Enhanced separation performance of a novel composite material GrO@MIL-101 for CO <sub>2</sub> /CH <sub>4</sub> binary mixture. <i>Chemical Engineering Journal</i> , 2015, 266, 339-344.	6.6	106
33	Graphene-Immobilized Monomeric Bipyridine-M <sup>x+</sup> (M <sup>x+</sup> = Tj ETQq1 1 0.784314 rgBT /Overl	4.0	37
34	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
35	Preparation and Adsorption Performance of GrO@Cu-BTC for Separation of CO <sub>2</sub> /CH <sub>4</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 11176-11184.	1.8	124