

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	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
2	Surface Modification of Two-dimensional Metal-Organic Layers Creates Biomimetic Catalytic Microenvironments for Selective Oxidation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9704-9709.	7.2	155
3	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
4	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
5	Enhanced separation performance of a novel composite material GrO@MIL-101 for CO ₂ /CH ₄ binary mixture. <i>Chemical Engineering Journal</i> , 2015, 266, 339-344.	6.6	106
6	Asphalt-derived high surface area activated porous carbons for the effective adsorption separation of ethane and ethylene. <i>Chemical Engineering Science</i> , 2017, 162, 192-202.	1.9	92
7	Novel room-temperature synthesis of MIL-100(Fe) and its excellent adsorption performances for separation of light hydrocarbons. <i>Chemical Engineering Journal</i> , 2019, 355, 679-686.	6.6	82
8	Electrocatalytic reduction of CO ₂ 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
9	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
10	Selective Adsorption Performances of UiO-67 for Separation of Light Hydrocarbons C ₁ , C ₂ , and C ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8689-8696.	1.8	63
11	Synthesis of novel particle rice-based carbon materials and its excellent CH ₄ /N ₂ adsorption selectivity for methane enrichment from Low-rank natural gas. <i>Chemical Engineering Journal</i> , 2020, 384, 123388.	6.6	57
12	Tuning secondary building unit of Cu-BTC to simultaneously enhance its CO ₂ selective adsorption and stability under moisture. <i>Chemical Engineering Journal</i> , 2019, 355, 815-821.	6.6	56
13	Novel glucose-based adsorbents (Glc-Cs) with high CO ₂ capacity and excellent CO ₂ /CH ₄ /N ₂ adsorption selectivity. <i>Chemical Engineering Journal</i> , 2017, 327, 51-59.	6.6	54
14	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
15	Enhancing Selective Adsorption in a Robust Pillared-Layer Metal-Organic Framework via Channel Methylation for the Recovery of C ₂ -C ₃ from Natural Gas. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51499-51505.	4.0	50
16	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
17	Facile synthesis of ultramicroporous carbon adsorbents with ultra-high CH ₄ uptake by in situ ionic activation. <i>AIChE Journal</i> , 2020, 66, e16231.	1.8	39
18	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

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19	Graphene-Immobilized Monomeric Bipyridine-M ^x (M ^x =) Tj ETQq1 1 0.784314 rgBT /Overl Electrocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2014, 6, 18475-18479.	4.0	37
20	Postsynthetic Strategy To Prepare ACN@Cu-BTCs with Enhanced Water Vapor Stability and CO ₂ /CH ₄ Separation Selectivity. Industrial & Engineering Chemistry Research, 2018, 57, 3765-3772.	1.8	37
21	A novel DOBDC-functionalized MIL-100(Fe) and its enhanced CO ₂ capacity and selectivity. Chemical Engineering Journal, 2017, 321, 600-607.	6.6	36
22	Quenched breathing effect, enhanced CO ₂ uptake and improved CO ₂ /CH ₄ selectivity of MIL-53(Cr)/graphene oxide composites. Chemical Engineering Science, 2017, 167, 98-104.	1.9	36
23	Enhanced CO ₂ Adsorption and CO ₂ /N ₂ /CH ₄ Selectivity of Novel Carbon Composites CPDA@A-Cs. Energy & Fuels, 2019, 33, 493-502.	2.5	28
24	Adsorption performance of MIL-100(Fe) for separation of olefin-paraffin mixtures. Journal of the Taiwan Institute of Chemical Engineers, 2017, 70, 74-78.	2.7	27
25	Design, Synthesis, and Characterization of a Bifunctional Chelator with Ultrahigh Capacity for Uranium Uptake from Seawater Simulant. Industrial & Engineering Chemistry Research, 2016, 55, 4170-4178.	1.8	25
26	Room temperature synthesis of Cu(Qc) ₂ and its application for ethane capture from light hydrocarbons. Chemical Engineering Science, 2020, 213, 115355.	1.9	25
27	Graphene-Immobilized $\text{Re}(\text{bipy})(\text{CO})_3\text{Cl}$ for Syngas Generation from Carbon Dioxide. ACS Applied Materials & Interfaces, 2016, 8, 4192-4198.	4.0	21
28	Propane-selective design of zirconium-based MOFs for propylene purification. Chemical Engineering Science, 2020, 219, 115604.	1.9	20
29	Oxygen-Selective Adsorption Property of Ultramicroporous MOF Cu(Qc) ₂ for Air Separation. Industrial & Engineering Chemistry Research, 2020, 59, 6219-6225.	1.8	18
30	Robust Nickel-Based Metal-Organic Framework for Highly Efficient Methane Purification and Capture. ACS Applied Materials & Interfaces, 2022, 14, 4242-4250.	4.0	17
31	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
32	Adsorption Property of Starch-Based Microporous Carbon Materials with High Selectivity and Uptake for C ₁ /C ₂ /C ₃ Separation. Industrial & Engineering Chemistry Research, 2021, 60, 4668-4676.	1.8	13
33	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
34	Frontispiece: Surface Modification of Two-Dimensional Metal-Organic Layers Creates Biomimetic Catalytic Microenvironments for Selective Oxidation. Angewandte Chemie - International Edition, 2017, 56, .	7.2	0
35	Frontispiz: Surface Modification of Two-Dimensional Metal-Organic Layers Creates Biomimetic Catalytic Microenvironments for Selective Oxidation. Angewandte Chemie, 2017, 129, .	1.6	0