Zhiyuan Yang

List of Publications by Year
in descending order

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33	701	516561 16	552653 26
papers	citations	h-index	g-index

33	33	33	600
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adsorption separation of CH4/N2 on modified coal-based carbon molecular sieve. Separation and Purification Technology, 2019, 218, 130-137.	3.9	73
2	Effects of coal slime on the slurry ability of a semi-coke water slurry. Powder Technology, 2020, 359, 261-267.	2.1	70
3	A universal approach to turn UiO-66 into type 1 porous liquids via post-synthetic modification with corona-canopy species for CO2 capture. Chemical Engineering Journal, 2021, 416, 127625.	6.6	46
4	Transforming Metalâ€“Organic Frameworks into Porous Liquids via a Covalent Linkage Strategy for CO₂ Capture. ACS Applied Materials & Interfaces, 2021, 13, 2600-2609.	4.0	44
5	A Novel Strategy to Enhance the Performance of CO₂ Adsorption Separation: Grafting Hyper-cross-linked Polyimide onto Composites of UiO-66-NH₂ and GO. ACS Applied Materials & Interfaces, 2021, 13, 17781-17790.	4.0	44
6	Preparation of hollow TiO2 microspheres by the reverse microemulsions. Materials Letters, 2008, 62, 1930-1932.	1.3	41
7	CO2 selective separation of Pebax-based mixed matrix membranes (MMMs) accelerated by silica nanoparticle organic hybrid materials (NOHMs). Separation and Purification Technology, 2020, 241, 116708.	3.9	41
8	Shining Light on Porous Liquids: From Fundamentals to Syntheses, Applications and Future Challenges. Advanced Functional Materials, 2022, 32, 2104162.	7.8	40
9	Electrodeposited ternary iron-cobalt-nickel catalyst on nickel foam for efficient water electrolysis at high current density. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 694-702.	2.3	34
10	A general way to transform Ti3C2Tx MXene into solvent-free fluids for filler phase applications. Chemical Engineering Journal, 2021, 409, 128082.	6.6	33
11	Graphene-based semi-coke porous carbon with N-rich hierarchical sandwich-like structure for efficient separation of CO2/N2. Microporous and Mesoporous Materials, 2021, 311, 110700.	2.2	31
12	Liquid-like CNT/SiO₂nanoparticle organic hybrid materials as fillers in mixed matrix composite membranes for enhanced CO₂-selective separation. New Journal of Chemistry, 2019, 43, 11949-11958.	1.4	28
13	Thermochemical behaviors, kinetics and gas emission analyses during co-pyrolysis of walnut shell and coal. Thermochimica Acta, 2019, 673, 26-33.	1.2	27
14	Surface modification on semi-coke-based activated carbon for enhanced separation of CH4/N2. Chemical Engineering Research and Design, 2020, 161, 312-321.	2.7	24
15	Interaction between dispersant and coal slime added in semi-coke water slurry: An experimental and DFT study. Applied Surface Science, 2021, 540, 148327.	3.1	21
16	Transforming Ti₃C₂T_x MXenes into nanoscale ionic materials via an electronic interaction strategy. Journal of Materials Chemistry A, 2021, 9, 15441-15451.	5.2	21
17	Preparation of Activated Carbon Doped with Graphene Oxide Porous Materials and Their High Gas Adsorption Performance. ACS Omega, 2021, 6, 19799-19810.	1.6	14
18	Small molecules from multistep extraction of coal and their effects on coal adsorption of CH4. Catalysis Today, 2021, 374, 192-199.	2.2	10

#	Article	IF	Citations
19	Adsorption and Diffusion Behavior of CH₄ and CO₂ in Closed and Open Pores from Zhaozhuang Coal. Energy & Fuels, 2022, 36, 2582-2590.	2.5	10
20	Effects of nitrogen doping on microstructure and photocatalytic activity of nanocrystalline TiO2 powders. Journal Wuhan University of Technology, Materials Science Edition, 2007, 22, 457-461.	0.4	9
21	Novel binuclear manganese(III), cobalt(III) and chromium(III) complexes for the alternating ring-opening copolymerization of cyclohexene oxide and maleic anhydride. Inorganica Chimica Acta, 2016, 453, 222-229.	1.2	9
22	Interface Structure between Vitrinite and Inertinite from Shenmu Coal during Pyrolysis. ACS Earth and Space Chemistry, 2017, 1, 179-186.	1.2	8
23	Construction of Buertai Coal Macromolecular Model and GCMC Simulation of Methane Adsorption in Micropores. ACS Omega, 2021, 6, 11173-11182.	1.6	8
24	Post-synthetic modification of UiO-66-OH toward porous liquids for CO₂ capture. New Journal of Chemistry, 2022, 46, 2189-2197.	1.4	4
25	Preparation and photocatalysis properties of La-doped nano-NiO novel photocatalyst. Proceedings of SPIE, 2009, , .	0.8	2
26	Beneficiation of oil shale by froth flotation. Journal of Petroleum Exploration and Production, 2019, 9, 725-730.	1.2	2
27	Preparation of porous composite materials with semi-coke based activated carbon doped with graphene oxide. IOP Conference Series: Materials Science and Engineering, 2020, 729, 012084.	0.3	2
28	Hydroisomerization with a Hierarchical SAPOâ€11 Supported Ni Catalyst: Effect of DTAB Content[]**. ChemistrySelect, 2021, 6, 11528-11536.	0.7	2
29	Quantum chemical simulation of methane production by coal hydrogenation pyrolysis. IOP Conference Series: Earth and Environmental Science, 2018, 121, 022045.	0.2	1
30	Molecular simulation of methane adsorption characteristics on coal macromolecule. IOP Conference Series: Earth and Environmental Science, 2018, 121, 022042.	0.2	1
31	Preparation of composite catalyst and its catalytic cracking properties of coal tar. IOP Conference Series: Materials Science and Engineering, 2020, 729, 012085.	0.3	1
32	Synthesis of La<inf>2</inf>O<inf>3</inf>-NiO photocatalyst and kinetics of degradation of dye wastewater under visible light irradiation. , 2011, , .		0
33	The experimental research on flotation preparation of Jincheng ultra-low ash cleaning coal. , 2013, , .		0