Xiangzhou Yuan

List of Publications by Year
in descending order

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58	1,663	304368	315357
papers	citations	22 h-index	38 g-index

58	58	58	781
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Machine learning exploration of the direct and indirect roles of Fe impregnation on Cr(VI) removal by engineered biochar. Chemical Engineering Journal, 2022, 428, 131967.	6.6	50
2	Special issue on biochar technologies, production, and environmental applications in Critical Reviews in Environmental Science & Technology during 2017â€“2021. Critical Reviews in Environmental Science and Technology, 2022, 52, 3375-3383.	6.6	7
3	Co-liquefaction of mixed biomass feedstocks for bio-oil production: A critical review. Renewable and Sustainable Energy Reviews, 2022, 154, 111814.	8.2	33
4	Pyrolysis of waste surgical masks into liquid fuel and its life-cycle assessment. Bioresource Technology, 2022, 346, 126582.	4.8	62
5	Adsorption mechanism of polycyclic aromatic hydrocarbons using wood waste-derived biochar. Journal of Hazardous Materials, 2022, 425, 128003.	6.5	58
6	Priorities for biomass. One Earth, 2022, 5, 3-6.	3.6	4
7	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO₂ capture. Green Chemistry, 2022, 24, 1494-1504.	4.6	51
8	Preliminary experimental study on the performance of CO2 capture prototype based on temperature swing adsorption (TSA). Carbon Capture Science & Technology, 2022, 2, 100035.	4.9	12
9	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning. Environmental Science & Technology, 2022, 56, 4187-4198.	4.6	138
10	Transformation behavior and fate of chlorine in polychloroprene (PCP) during its pyrolysis. Fuel, 2022, 317, 123573.	3.4	17
11	Diamond in the rough: Polishing waste polyethylene terephthalate into activated carbon for CO2 capture. Science of the Total Environment, 2022, 834, 155262.	3.9	4
12	Recent advancements in sustainable upcycling of solid waste into porous carbons for carbon dioxide capture. Renewable and Sustainable Energy Reviews, 2022, 162, 112413.	8.2	30
13	Engineered biochar as a potential adsorbent for carbon dioxide capture. , 2022, , 345-359.		1
14	Sustainable management of plastic wastes in COVID-19 pandemic: The biochar solution. Environmental Research, 2022, 212, 113495.	3.7	31
15	Thermodynamic carbon pump 2.0: Elucidating energy efficiency through the thermodynamic cycle. Energy, 2021, 215, 119155.	4.5	4
16	Dual closed-loop chemical recycling support sustainable mitigation of plastic pollution. Matter, 2021, 4, 1095-1097.	5.0	6
17	Cooperation between hydrogenation and acidic sites in Cu-based catalyst for selective conversion of furfural to Î³-valerolactone. Fuel, 2021, 293, 120457.	3.4	38
18	Selective Conversion of Furfural into Diols over Co-Based Catalysts: Importance of the Coordination of Hydrogenation Sites and Basic Sites. Industrial & Engineering Chemistry Research, 2021, 60, 10393-10406.	1.8	21

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19	Applied Machine Learning for Prediction of CO₂ Adsorption on Biomass Waste-Derived Porous Carbons. Environmental Science & Technology, 2021, 55, 11925-11936.	4.6	132
20	Ionic liquid coupled with nickel salt for enhancing the hydro-liquefaction efficiency of the major biomass components. Renewable Energy, 2021, 175, 296-306.	4.3	3
21	Co-hydrothermal carbonization of swine and chicken manure: Influence of cross-interaction on hydrochar and liquid characteristics. Science of the Total Environment, 2021, 786, 147381.	3.9	38
22	The COVID-19 pandemic necessitates a shift to a plastic circular economy. Nature Reviews Earth & Environment, 2021, 2, 659-660.	12.2	92
23	Recycling Polymeric Solid Wastes for Energyâ€Efficient Water Purification, Organic Distillation, and Oil Spill Cleanup. Small, 2021, 17, e2102459.	5.2	11
24	Carbon precursors in coal tar: Extraction and preparation of carbon materials. Science of the Total Environment, 2021, 788, 147697.	3.9	15
25	Synergistic and competitive effect of H2O on CO2 adsorption capture: Mechanism explanations based on molecular dynamic simulation. Journal of CO2 Utilization, 2021, 52, 101662.	3.3	16
26	Co-hydrothermal carbonization of swine manure and cellulose: Influence of mutual interaction of intermediates on properties of the products. Science of the Total Environment, 2021, 791, 148134.	3.9	16
27	Review on upgrading organic waste to value-added carbon materials for energy and environmental applications. Journal of Environmental Management, 2021, 296, 113128.	3.8	45
28	A review on biomass-derived CO2 adsorption capture: Adsorbent, adsorber, adsorption, and advice. Renewable and Sustainable Energy Reviews, 2021, 152, 111708.	8.2	47
29	Co-pyrolysis of swine manure and pinewood sawdust: Evidence of cross-interaction of the volatiles and profound impacts on product characteristics. Renewable Energy, 2021, 179, 1370-1384.	4.3	13
30	Physiologically based pharmacokinetic model revealed the distinct bio-transportation and turnover of arsenobetaine and arsenate in marine fish. Aquatic Toxicology, 2021, 240, 105991.	1.9	10
31	Recycling Polymeric Solid Wastes for Energyâ€Efficient Water Purification, Organic Distillation, and Oil Spill Cleanup (Small 46/2021). Small, 2021, 17, 2170244.	5.2	2
32	How to express the adsorbed CO2 with the Gibbsâ€™ thermodynamic graphical method: A preliminary study. Energy, 2020, 193, 116753.	4.5	4
33	Understanding the effect of H₂O on CO₂ adsorption capture: mechanism explanation, quantitative approach and application. Sustainable Energy and Fuels, 2020, 4, 5970-5986.	2.5	20
34	Performance analysis of solar-assisted CO2 adsorption capture system based on dynamic simulation. Solar Energy, 2020, 209, 628-645.	2.9	13
35	Non-equilibrium thermodynamic analysis of adsorption carbon capture: Contributors, mechanisms and verification of entropy generation. Energy, 2020, 208, 118348.	4.5	8
36	Developing self-activated lignosulfonate-based porous carbon material for ethylene adsorption. Journal of the Taiwan Institute of Chemical Engineers, 2020, 115, 315-320.	2.7	13

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37	Upcycling of waste polyethylene terephthalate plastic bottles into porous carbon for CF4 adsorption. Environmental Pollution, 2020, 265, 114868.	3.7	54
38	Valorization of waste polyethylene terephthalate plastic into N-doped microporous carbon for CO2 capture through a one-pot synthesis. Journal of Hazardous Materials, 2020, 399, 123010.	6.5	85
39	Solving two environmental issues simultaneously: Waste polyethylene terephthalate plastic bottle-derived microporous carbons for capturing CO2. Chemical Engineering Journal, 2020, 397, 125350.	6.6	98
40	Waste polyethylene terephthalate (PET) plastics-derived activated carbon for CO₂ capture: a route to a closed carbon loop. Green Chemistry, 2020, 22, 6836-6845.	4.6	57
41	Application of the Thermodynamic Cycle to Assess the Energy Efficiency of Amine-Based Absorption of Carbon Capture. Energies, 2019, 12, 2504.	1.6	10
42	Entropy analysis on energy-consumption process and improvement method of temperature/vacuum swing adsorption (TVSA) cycle. Energy, 2019, 179, 876-889.	4.5	18
43	Numerical analysis on CO2 capture process of temperature swing adsorption (TSA): Optimization of reactor geometry. International Journal of Greenhouse Gas Control, 2019, 85, 187-198.	2.3	24
44	Removal of Cu(II) ions from aqueous solutions using petroleum coke-derived microporous carbon: investigation of adsorption equilibrium and kinetics. Adsorption, 2019, 25, 1205-1218.	1.4	19
45	Entropy Analysis of Temperature Swing Adsorption for CO2 Capture Using the Computational Fluid Dynamics (CFD) Method. Entropy, 2019, 21, 285.	1.1	5
46	Energy dissipation evaluation of temperature swing adsorption (TSA) cycle based on thermodynamic entropy insights. Scientific Reports, 2019, 9, 16599.	1.6	2
47	Investigation of Indonesian low rank coals gasification in a fixed bed reactor with K2CO3 catalyst loading. Journal of the Energy Institute, 2019, 92, 904-912.	2.7	7
48	Chemically activated microporous carbons derived from petroleum coke: Performance evaluation for CF4 adsorption. Chemical Engineering Journal, 2018, 336, 297-305.	6.6	54
49	Potassium catalyst recovery process and performance evaluation of the recovered catalyst in the K 2 CO 3 -catalyzed steam gasification system. Applied Energy, 2017, 195, 850-860.	5.1	30
50	Process modeling and performance evaluation of commercialâ€scale coalâ€toâ€SNG plant using Indonesia IBC coal with two drying concepts. Asia-Pacific Journal of Chemical Engineering, 2016, 11, 1012-1026.	0.8	2
51	Gasification of Indonesian Sub-bituminous Coal with Different Gasifying Agents Using Ca and K Catalysts. Energy & Fuels, 2016, 30, 9372-9378.	2.5	8
52	Investigations of Both Catalytic Steam Gasification of Indonesian Lanna Coal and Potassium Catalyst Recovery Using K₂CO₃ as a Catalyst. Energy & Fuels, 2016, 30, 2492-2502.	2.5	15
53	Effect of mineral components on sintering of ash particles at low temperature fouling conditions. Fuel Processing Technology, 2016, 141, 82-92.	3.7	15
54	Experimental and kinetic study of catalytic steam gasification of low rank coal with an environmentally friendly, inexpensive composite K 2 CO 3 â€“eggshell derived CaO catalyst. Fuel, 2016, 165, 397-404.	3.4	43

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55	Effect of bed agglomeration by mineral component with different coal types. Journal of the Energy Institute, 2016, 89, 172-181.	2.7	11
56	Lab-scale investigations on catalyst recovery of gasified residue collected from the potassium-catalyzed steam gasification process. Fuel Processing Technology, 2016, 141, 44-53.	3.7	9
57	K₂CO₃â€Catalyzed Steam Gasification of Indonesian Lowâ€Rank Coal for H₂â€Rich Gas Production in a Fixed Bed Reactor. Energy Technology, 2015, 3, 527-534.	1.8	12
58	Reaction characteristics through catalytic steam gasification with ultra clean coal char and coal. Journal of the Energy Institute, 2014, 87, 253-262.	2.7	20