

Xiong Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,341
citations

430843

18
h-index

713444

21
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all docs

21
docs citations

21
times ranked

1322
citing authors

#	ARTICLE	IF	CITATIONS
1	The structure evolution of biochar from biomass pyrolysis and its correlation with gas pollutant adsorption performance. <i>Bioresource Technology</i> , 2017, 246, 101-109.	9.6	207
2	Nitrogen enriched biochar modified by high temperature CO ₂ ammonia treatment: Characterization and adsorption of CO ₂ . <i>Chemical Engineering Journal</i> , 2014, 257, 20-27.	12.7	188
3	Effect of phosphorus-modified biochars on immobilization of Cu (II), Cd (II), and As (V) in paddy soil. <i>Journal of Hazardous Materials</i> , 2020, 390, 121349.	12.4	155
4	Enhance SO ₂ adsorption performance of biochar modified by CO ₂ activation and amine impregnation. <i>Fuel</i> , 2018, 224, 138-146.	6.4	106
5	Effects of hydrofluoric acid pre-deashing of rice husk on physicochemical properties and CO ₂ adsorption performance of nitrogen-enriched biochar. <i>Energy</i> , 2015, 91, 903-910.	8.8	79
6	Effect of deashing on activation process and lead adsorption capacities of sludge-based biochar. <i>Science of the Total Environment</i> , 2020, 716, 137016.	8.0	78
7	Preparation of nitrogen-doped microporous modified biochar by high temperature CO ₂ NH ₃ treatment for CO ₂ adsorption: effects of temperature. <i>RSC Advances</i> , 2016, 6, 98157-98166.	3.6	59
8	Evaluation and Prediction of Cadmium Removal from Aqueous Solution by Phosphate-Modified Activated Bamboo Biochar. <i>Energy & Fuels</i> , 2018, 32, 4469-4477.	5.1	51
9	Preparation of Iron and Nitrogen Doped Carbon Nanotubes from Waste Plastics Pyrolysis for the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2020, 13, 938-944.	6.8	49
10	Application of biomass pyrolytic polygeneration by a moving bed: Characteristics of products and energy efficiency analysis. <i>Bioresource Technology</i> , 2018, 254, 130-138.	9.6	46
11	Generalized two-dimensional correlation infrared spectroscopy to reveal mechanisms of CO ₂ capture in nitrogen enriched biochar. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3933-3940.	3.9	45
12	Bimetallic carbon nanotube encapsulated Fe-Ni catalysts from fast pyrolysis of waste plastics and their oxygen reduction properties. <i>Waste Management</i> , 2020, 109, 119-126.	7.4	45
13	Pyrolytic characteristics of hemicellulose, cellulose and lignin under CO ₂ atmosphere. <i>Fuel</i> , 2019, 256, 115890.	6.4	41
14	Influence of different precursors on the characteristic of nitrogen-enriched biochar and SO ₂ adsorption properties. <i>Chemical Engineering Journal</i> , 2020, 385, 123932.	12.7	39
15	Activation-free synthesis of nitrogen-doped biochar for enhanced adsorption of CO ₂ . <i>Journal of Cleaner Production</i> , 2022, 355, 131642.	9.3	36
16	A new nitrogen-enriched biochar modified by ZIF-8 grafting and annealing for enhancing CO ₂ adsorption. <i>Fuel Processing Technology</i> , 2022, 231, 107250.	7.2	32
17	One-pot hydrothermal synthesis of dual metal incorporated CuCe-SAPO-34 zeolite for enhancing ammonia selective catalytic reduction. <i>Journal of Hazardous Materials</i> , 2021, 405, 124177.	12.4	25
18	The influence of CO ₂ on biomass fast pyrolysis at medium temperatures. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, .	2.0	21

#	ARTICLE	IF	CITATIONS
19	High temperature ammonia modification of rice husk char to enhance CO ₂ adsorption: influence of pre-deashing. RSC Advances, 2015, 5, 106280-106288.	3.6	15
20	Simultaneous removal of cadmium and lead by biochar modified with layered double hydroxide. Fuel Processing Technology, 2022, 235, 107389.	7.2	13
21	In-situ polymerized composite polymer electrolyte with cesium-ion additive enables dual-interfacial compatibility in all-solid-state lithium-metal batteries. Journal of Colloid and Interface Science, 2022, 615, 627-635.	9.4	11