Xinzhe Zhu

List of Publications by Year
in descending order

15 papers	1,068 citations	623734 14 h-index	996975 15 g-index
15 all docs	15 docs citations	15 times ranked	890 citing authors

#	Article	IF	Citations
1	Insights into the adsorption of pharmaceuticals and personal care products (PPCPs) on biochar and activated carbon with the aid of machine learning. Journal of Hazardous Materials, 2022, 423, 127060.	12.4	82
2	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.	12.7	50
3	Multi-task prediction and optimization of hydrochar properties from high-moisture municipal solid waste: Application of machine learning on waste-to-resource. Journal of Cleaner Production, 2021, 278, 123928.	9.3	98
4	Machine learning for the selection of carbon-based materials for tetracycline and sulfamethoxazole adsorption. Chemical Engineering Journal, 2021, 406, 126782.	12.7	119
5	Machine learning exploration of the critical factors for CO2 adsorption capacity on porous carbon materials at different pressures. Journal of Cleaner Production, 2020, 273, 122915.	9.3	94
6	Application of Life Cycle Assessment and Machine Learning for High-Throughput Screening of Green Chemical Substitutes. ACS Sustainable Chemistry and Engineering, 2020, 8, 11141-11151.	6.7	35
7	The application of machine learning methods for prediction of metal sorption onto biochars. Journal of Hazardous Materials, 2019, 378, 120727.	12.4	177
8	Machine learning prediction of biochar yield and carbon contents in biochar based on biomass characteristics and pyrolysis conditions. Bioresource Technology, 2019, 288, 121527.	9.6	202
9	Correlating Asphaltene Dimerization with Its Molecular Structure by Potential of Mean Force Calculation and Data Mining. Energy & Fuels, 2018, 32, 5779-5788.	5.1	20
10	Insights into the Oil Adsorption and Cyclodextrin Extraction Process on Rough Silica Surface by Molecular Dynamics Simulation. Journal of Physical Chemistry C, 2018, 122, 2997-3005.	3.1	16
11	Molecular dynamics simulation of cyclodextrin aggregation and extraction of Anthracene from non-aqueous liquid phase. Journal of Hazardous Materials, 2016, 320, 169-175.	12.4	15
12	Insights into asphaltene aggregation in the Na-montmorillonite interlayer. Chemosphere, 2016, 160, 62-70.	8.2	15
13	Modeling the adsorption of PAH mixture in silica nanopores by molecular dynamic simulation combined with machine learning. Chemosphere, 2016, 144, 1950-1959.	8.2	37
14	Molecular dynamic simulation of asphaltene co-aggregation with humic acid during oil spill. Chemosphere, 2015, 138, 412-421.	8.2	44
15	Molecular modeling of interactions between heavy crude oil and the soil organic matter coated quartz surface. Chemosphere, 2015, 119, 242-249.	8.2	64