Yu Zhang

List of Publications by Year
in descending order

17 papers	461 citations	759233 12 h-index	888059 17 g-index
17 all docs	17 docs citations	17 times ranked	303 citing authors

#	Article	IF	Citations
1	Structural features of Qingdao petroleum coke from HRTEM lattice fringes: Distributions of length, orientation, stacking, curvature, and a large-scale image-guided 3D atomistic representation. Carbon, 2018, 129, 790-802.	10.3	91
2	ReaxFF simulations of petroleum coke sulfur removal mechanisms during pyrolysis and combustion. Combustion and Flame, 2018, 198, 146-157.	5.2	54
3	Sulfur removal from petroleum coke during high-temperature pyrolysis. Analysis from TG-MS data and ReaxFF simulations. Journal of Analytical and Applied Pyrolysis, 2018, 132, 134-142.	5.5	51
4	Modeling the Change of Green Coke to Calcined Coke Using Qingdao High-Sulfur Petroleum Coke. Energy & Fuels, 2015, 29, 3345-3352.	5.1	44
5	Effect of high-temperature pyrolysis on the structure and properties of coal and petroleum coke. Journal of Analytical and Applied Pyrolysis, 2016, 117, 64-71.	5.5	42
6	Structural Differences of Spontaneous Combustion Prone Inertinite-Rich Chinese Lignite Coals: Insights from XRD, Solid-State¹³C NMR, LDIMS, and HRTEM. Energy & Fuels, 2019, 33, 4575-4584.	5.1	29
7	A large-scale molecular model of Fenghuangshan anthracite coal. Fuel, 2021, 295, 120616.	6.4	29
8	Reduction and Desulfurization of Petroleum Coke in Ammonia and Their Thermodynamics. Energy & Fuels, 2016, 30, 3385-3391.	5.1	28
9	Thiophenic Sulfur Transformation in a Carbon Anode during the Aluminum Electrolysis Process. Energy & Fuels, 2017, 31, 4539-4547.	5.1	19
10	ReaxFF MD simulations of petroleum coke CO2 gasification examining the S/N removal mechanisms and CO/CO2 reactivity. Fuel, 2019, 257, 116051.	6.4	17
11	Reductive Gaseous (H₂/NH₃) Desulfurization and Gasification of High-Sulfur Petroleum Coke via Reactive Force Field Molecular Dynamics Simulations. Energy & Fuels, 2019, 33, 8065-8075.	5.1	14
12	Molecular Simulation of the Adsorption Behaviors of CO2/CH4in Curvature, Planar, and Mixture Models. Energy & Fuels, 2020, 34, 4153-4161.	5.1	12
13	Mutual Inhibition between Catalytic Impurities of Sulfur and Those of Calcium in Coke during Carbonâ€“Air and Carbonâ€“CO2 Reactions. Energy & Fuels, 2015, 29, 1961-1971.	5.1	11
14	Impact of the crystallite parameters and coal ranks on oxidation and combustion properties of Carboniferous coals and Jurassic coals. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	7
15	Removal and transformation mechanisms of nitrogen and sulfur in petcoke supercritical water gasification via ReaxFF simulation. Molecular Simulation, 2022, 48, 209-220.	2.0	6
16	Investigation of Competitive Adsorption Properties of CO/CO₂/O₂ onto the Kailuan Coals by Molecular Simulation. ACS Omega, 2022, 7, 19305-19318.	3.5	5
17	Investigation of the Adsorption Behavior of Organic Sulfur in Coal via Density Functional Theory (DFT) Calculation and Molecular Simulation. Journal of Physical Chemistry A, 2021, 125, 7358-7368.	2.5	2