

Hong-yu Zhao

List of Publications by Year in descending order

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33
papers

1,381
citations

331670

21
h-index

395702

33
g-index

33
all docs

33
docs citations

33
times ranked

778
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyrolysis of municipal solid waste with iron-based additives: A study on the kinetic, product distribution and catalytic mechanisms. <i>Journal of Cleaner Production</i> , 2020, 258, 120682.	9.3	133
2	Study on catalytic co-pyrolysis of physical mixture/staged pyrolysis characteristics of lignite and straw over an catalytic beds of char and its mechanism. <i>Energy Conversion and Management</i> , 2018, 161, 13-26.	9.2	132
3	Catalytic reforming of volatiles from co-pyrolysis of lignite blended with corn straw over three different structures of iron ores. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 144, 104714.	5.5	92
4	Activated carbon preparation from pyrolysis char of sewage sludge and its adsorption performance for organic compounds in sewage. <i>Fuel</i> , 2020, 266, 117053.	6.4	80
5	Effects of demineralization on the surface morphology, microcrystalline and thermal transformation characteristics of coal. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 145, 104716.	5.5	79
6	Characterization of the products obtained by pyrolysis of oil sludge with steel slag in a continuous pyrolysis-magnetic separation reactor. <i>Fuel</i> , 2019, 255, 115711.	6.4	77
7	Investigation on the physicochemical structure and gasification reactivity of nascent pyrolysis and gasification char prepared in the entrained flow reactor. <i>Fuel</i> , 2019, 240, 126-137.	6.4	76
8	Catalytic reforming of volatiles from co-pyrolysis of lignite blended with corn straw over three iron ores: Effect of iron ore types on the product distribution, carbon-deposited iron ore reactivity and its mechanism. <i>Fuel</i> , 2021, 286, 119398.	6.4	64
9	Investigation on the thermal behavior characteristics and products composition of four pulverized coals: Its potential applications in coal cleaning. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 23620-23638.	7.1	63
10	Effects of various additives on the pyrolysis characteristics of municipal solid waste. <i>Waste Management</i> , 2018, 78, 621-629.	7.4	59
11	Effect of chemical fractionation treatment on structure and characteristics of pyrolysis products of Xinjiang long flame coal. <i>Fuel</i> , 2018, 234, 1193-1204.	6.4	52
12	Effects of Iron Ores on the Pyrolysis Characteristics of a Low-Rank Bituminous Coal. <i>Energy & Fuels</i> , 2016, 30, 3831-3839.	5.1	49
13	Study on the catalytic pyrolysis of coal volatiles over hematite for the production of light tar. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 151, 104927.	5.5	49
14	Studies on individual pyrolysis and co-pyrolysis of peatâ€“biomass blends: Thermal decomposition behavior, possible synergism, product characteristic evaluations and kinetics. <i>Fuel</i> , 2022, 310, 122280.	6.4	47
15	Drying, re-adsorption characteristics, and combustion kinetics of Xilingol lignite in different atmospheres. <i>Fuel</i> , 2017, 210, 592-604.	6.4	41
16	Catalytic upgrading of coal volatiles with Fe ₂ O ₃ and hematite by TG-FTIR and Py-GC/MS. <i>Fuel</i> , 2022, 313, 122667.	6.4	33
17	Effect of reductant type on the embedding direct reduction of beach titanomagnetite concentrate. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 152-159.	4.9	30
18	Effect of hydrothermal upgrading on the pyrolysis and gasification characteristics of baiyinhua lignite and a mechanistic analysis. <i>Fuel</i> , 2020, 276, 118081.	6.4	30

#	ARTICLE	IF	CITATIONS
19	Influence of critical moisture content in lignite dried by two methods on its physicochemical properties during oxidation at low temperature. <i>Fuel</i> , 2018, 211, 27-37.	6.4	27
20	Effects of coal pretreatment on the products of co-pyrolysis of caking bituminous coal and corn stalks mixed in equal proportion. <i>Applied Thermal Engineering</i> , 2017, 125, 470-479.	6.0	25
21	Enhancing the Leaching of Chalcopyrite Using <i>Acidithiobacillus ferrooxidans</i> under the Induction of Surfactant Triton X-100. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 11.	2.0	25
22	Effect of a combined process on pyrolysis behavior of huolinhe lignite and its kinetic analysis. <i>Fuel</i> , 2020, 279, 118485.	6.4	20
23	The rate-limiting step in the integrated coal tar decomposition and upgrading- iron ore reduction reaction determined by kinetic analysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 147, 104808.	5.5	17
24	Investigation on chemical structure and hydrocarbon generation potential of lignite in the different pretreatment process. <i>Fuel</i> , 2021, 291, 120205.	6.4	14
25	Co-pyrolysis characteristics of lignite and biomass and efficient adsorption of magnetic activated carbon prepared by co-pyrolysis char activation and modification for coking wastewater. <i>Fuel</i> , 2022, 324, 124816.	6.4	14
26	Strengthening the results of destroying the caking property of CBC in weak oxygen and upgrading pyrolysis products. <i>Fuel</i> , 2017, 205, 90-99.	6.4	12
27	Effect of MgO and CaCO ₃ as Additives on the Reduction Roasting and Magnetic Separation of Beach Titanomagnetite Concentrate. <i>ISIJ International</i> , 2019, 59, 981-987.	1.4	12
28	Study on the factors affecting the deep reduction of coal gangue containing high contents of iron and sulfur. <i>Fuel</i> , 2021, 288, 119571.	6.4	11
29	Preparation of Magnetic Activated Carbon by Activation and Modification of Char Derived from Co-Pyrolysis of Lignite and Biomass and Its Adsorption of Heavy-Metal-Containing Wastewater. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 665.	2.0	8
30	The Effect of Hydrothermal Treatment on Structure and Flotation Characteristics of Lignite and a Mechanistic Analysis. <i>ACS Omega</i> , 2021, 6, 1930-1940.	3.5	5
31	Pyrolysis of pressure-sensitive adhesive wastes in a fixed-bed reactor. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 2553-2559.	2.3	2
32	Formation of pyrite in the process of fine coal desulfurization by microwave enhanced magnetic separation. <i>International Journal of Coal Preparation and Utilization</i> , 2023, 43, 484-501.	2.1	2
33	Reduction of Magnetic Separation of Pickling Sludge by Biomass Pyrolysis Reducing Gas. <i>ACS Omega</i> , 2022, 7, 17963-17975.	3.5	1