

Kuihua Han

List of Publications by Year in descending order

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62
papers

1,863
citations

279701

23
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265120

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62
docs citations

62
times ranked

2067
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous SrTiO ₃ perovskite as a heterogeneous catalyst for biodiesel production: Experimental and DFT studies. <i>Renewable Energy</i> , 2022, 184, 164-175.	4.3	28
2	Study on performance and charging dynamics of N/O codoped layered porous carbons derived from L-tyrosine for supercapacitors. <i>Applied Surface Science</i> , 2022, 578, 151888.	3.1	17
3	Development and validation of a Riemann solver in OpenFOAM® for non-ideal compressible fluid dynamics. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022, 16, 116-140.	1.5	2
4	Sr-doped urchin-like NiCo hydroxide and Sr-doped flower-like NiCo hydroxide@O-doped layered porous carbon for high-performance asymmetric supercapacitors with gel electrolyte. <i>Journal of Cleaner Production</i> , 2022, 349, 131161.	4.6	3
5	Investigating the co-combustion characteristics of oily sludge and ginkgo leaves through thermogravimetric analysis coupled with an artificial neural network. <i>Science China Technological Sciences</i> , 2022, 65, 261-271.	2.0	3
6	Development and application of a modularized geometry optimizer for future supercritical CO ₂ turbomachinery optimization. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022, 16, 95-114.	1.5	2
7	Preparation of calcium modified Zn-Ce/Al ₂ O ₃ heterogeneous catalyst for biodiesel production through transesterification of palm oil with methanol optimized by response surface methodology. <i>Fuel</i> , 2021, 284, 118986.	3.4	48
8	Synergistic effect of additives and blend on sulfur retention, NO release and ash fusibility during combustion of biomass briquettes. <i>International Journal of Green Energy</i> , 2021, 18, 187-202.	2.1	2
9	Optimized synergistic preparation of nitrogen-doped porous carbon derived from gasified carbon for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021, 860, 158385.	2.8	20
10	Preparation of High-Performance Enteromorpha Prolifera-Based Porous Carbons by Nitrogen Modification and Their Electrochemical Performance. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	0
11	Combustion Characteristics, Kinetics, SO ₂ and NO Release of Low-Grade Biomass Materials and Briquettes. <i>Energies</i> , 2021, 14, 2655.	1.6	5
12	Synthesis of the SrO-CaO-Al ₂ O ₃ trimetallic oxide catalyst for transesterification to produce biodiesel. <i>Renewable Energy</i> , 2021, 168, 981-990.	4.3	45
13	Co-combustion characteristics and kinetics of meager coal and spent cathode carbon block by TG-MS analysis. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103198.	2.3	23
14	Ultrasonic-assisted preparation and characterization of hierarchical porous carbon derived from garlic peel for high-performance supercapacitors. <i>Ultrasonics Sonochemistry</i> , 2020, 60, 104756.	3.8	63
15	Heteroatom-Rich Porous Carbons Derived from Nontoxic Green Organic Crystals for High-Performance Symmetric and Asymmetric Supercapacitors with Aqueous/Gel Electrolyte. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13634-13647.	3.2	13
16	Pollutant Formation and Control during Fuel Thermochemical Conversion. <i>Journal of Chemistry</i> , 2020, 2020, 1-2.	0.9	0
17	Fabrication of high performance structural N-doped hierarchical porous carbon for supercapacitors. <i>Carbon</i> , 2020, 164, 42-50.	5.4	114
18	Halloysite nanotube functionalized with La-Ca bimetallic oxides as novel transesterification catalyst for biodiesel production with molecular simulation. <i>Energy Conversion and Management</i> , 2020, 220, 113138.	4.4	45

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19	Influence of additive on ash and combustion characteristics during biomass combustion under O ₂ /CO ₂ atmosphere. <i>Energy</i> , 2020, 195, 116987.	4.5	28
20	Comparison of porous carbons derived from sodium alginate and calcium alginate and their electrochemical properties. <i>RSC Advances</i> , 2020, 10, 2209-2215.	1.7	7
21	Influence of Phosphorus-Based Additives on Potassium Transformation During Pyrolysis and Ash Characteristics of Biochar Briquettes. <i>Bioenergy Research</i> , 2020, 13, 907-917.	2.2	2
22	Preparation of Scallion-Derived Porous Carbon with Regular Pore Structure for High-Performance Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2020, 167, 160549.	1.3	9
23	Nanoscale/microscale porous graphene-like sheets derived from different tissues and components of cane stalk for high-performance supercapacitors. <i>Journal of Materials Science</i> , 2019, 54, 14085-14101.	1.7	16
24	The study of sulphur retention characteristics of biomass briquettes during combustion. <i>Energy</i> , 2019, 186, 115788.	4.5	32
25	Biomass-derived 3D hierarchical porous carbon by two-step activation method for supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19415-19425.	1.1	22
26	Characterization of Dolomite Promoted by NaAlO ₂ and Application as Catalyst in Transesterification by Response Surface Methodology. <i>ChemistrySelect</i> , 2019, 4, 9849-9856.	0.7	6
27	Experimental investigation on biodiesel production through transesterification promoted by the La-dolomite catalyst. <i>Fuel</i> , 2019, 257, 116092.	3.4	40
28	High performance hierarchical porous carbon derived from distinctive plant tissue for supercapacitor. <i>Scientific Reports</i> , 2019, 9, 17270.	1.6	28
29	Investigation of potassium transformation characteristics and the influence of additives during biochar briquette combustion. <i>Fuel</i> , 2018, 222, 407-415.	3.4	20
30	Synthesis of garlic skin-derived 3D hierarchical porous carbon for high-performance supercapacitors. <i>Nanoscale</i> , 2018, 10, 2427-2437.	2.8	369
31	Segmented heating carbonization of biomass: Yields, property and estimation of heating value of chars. <i>Energy</i> , 2018, 144, 301-311.	4.5	14
32	Porous carbons from <i>Sargassum muticum</i> prepared by H ₃ PO ₄ and KOH activation for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8480-8491.	1.1	16
33	Improvement in the pore structure of gulfweed-based activated carbon via two-step acid treatment for high performance supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2018, 820, 103-110.	1.9	17
34	Simultaneous SO ₂ /NO removal performance of carbide slag pellets by bagasse templating in a bubbling fluidized bed reactor. <i>Fuel Processing Technology</i> , 2018, 180, 75-86.	3.7	34
35	Preparation and characterization of super activated carbon produced from gulfweed by KOH activation. <i>Microporous and Mesoporous Materials</i> , 2017, 243, 291-300.	2.2	226
36	Investigation of Maize Straw Char Briquette Ash Fusion Characteristics and the Influence of Phosphorus Additives. <i>Energy & Fuels</i> , 2017, 31, 2822-2830.	2.5	33

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37	Carbonization of biomass: Effect of additives on alkali metals residue, SO ₂ and NO emission of chars during combustion. <i>Energy</i> , 2017, 130, 560-569.	4.5	34
38	Influence of phosphorous based additives on ash melting characteristics during combustion of biomass briquette fuel. <i>Renewable Energy</i> , 2017, 113, 428-437.	4.3	45
39	The pyrolysis of biomass briquettes: Effect of pyrolysis temperature and phosphorus additives on the quality and combustion of bio-char briquettes. <i>Fuel</i> , 2017, 199, 488-496.	3.4	53
40	Influence of BaCO ₃ on chlorine fixation, combustion characteristics and KCl conversion during biomass combustion. <i>Fuel</i> , 2017, 208, 82-90.	3.4	19
41	Combustion pattern, characteristics, and kinetics of biomass and chars from segmented heating carbonization. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016, 11, 812-822.	0.8	18
42	Influence of ammonium dihydrogen phosphate on potassium retention and ash melting characteristics during combustion of biomass. <i>Energy</i> , 2016, 102, 244-251.	4.5	31
43	Thermogravimetric Analysis and Kinetics of Combustion of Raw and Torrefied Pine Sawdust. <i>Journal of Chemical Engineering of Japan</i> , 2015, 48, 320-325.	0.3	3
44	Influence of Ammonium Phosphates on Gaseous Potassium Release and Ash-Forming Characteristics during Combustion of Biomass. <i>Energy & Fuels</i> , 2015, 29, 2555-2563.	2.5	32
45	Pyrolysis of rice straw with ammonium dihydrogen phosphate: Properties and gaseous potassium release characteristics during combustion of the products. <i>Bioresource Technology</i> , 2015, 197, 193-200.	4.8	20
46	Dissolution characteristics of calcium-based alkaline industrial derived wastes. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 532-537.	0.9	2
47	Experimental and Modeling Study on de-NO _x Characteristics of Selective Non-catalytic Reduction in O ₂ /CO ₂ Atmosphere. <i>Chinese Journal of Chemical Engineering</i> , 2014, 22, 943-949.	1.7	7
48	Dissolution Characteristics of Calcium-Based Alkaline Industrial Wastes. <i>Journal of Chemical Engineering of Japan</i> , 2013, 46, 827-832.	0.3	1
49	Sulfation behavior of white mud from paper manufacture as SO ₂ sorbent at fluidized bed combustion temperatures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 107, 241-248.	2.0	29
50	Temperature auto-regulating equipment based on the household heating metering system. , 2011, , .		0
51	Kinetic calculations for the thermal decomposition of calcium propionate under non-isothermal conditions. <i>Science Bulletin</i> , 2011, 56, 1278-1284.	1.7	11
52	Release of sulfur dioxide and nitric oxide and characteristic of coal combustion under the effect of calcium based organic compounds. <i>Chemical Engineering Journal</i> , 2011, 168, 255-261.	6.6	40
53	Experimental study on nitric oxide reduction through calcium propionate reburning. <i>Energy</i> , 2011, 36, 1003-1009.	4.5	3
54	An experimental study on the effect of operating parameters and sodium additive on the NO OUT Process. <i>Chemical Engineering Research and Design</i> , 2011, 89, 121-126.	2.7	17

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55	Thermogravimetric analysis of the decomposition characteristics of two kinds of calcium based organic compounds. Powder Technology, 2011, 209, 46-52.	2.1	15
56	Thermogravimetric analysis of the relationship among calcium magnesium acetate, calcium acetate and magnesium acetate. Applied Energy, 2010, 87, 2237-2242.	5.1	39
57	Experimental study on biomass advanced reburning for nitrogen oxides reduction. Chemical Engineering Research and Design, 2010, 88, 425-430.	2.7	16
58	Experimental Study on the Effect of Urea and Additive Injection for Controlling Nitrogen Oxides Emissions. Environmental Engineering Science, 2010, 27, 47-53.	0.8	14
59	Kinetic Model and Simulation of Promoted Selective Non-catalytic Reduction by Sodium Carbonate. Chinese Journal of Chemical Engineering, 2007, 15, 512-519.	1.7	19
60	Effect of characteristics of calcium-based sorbents on the sulfation kinetics. Fuel, 2005, 84, 1933-1939.	3.4	41
61	D305 MICRO-PORE STRUCTURE AND DESULPHURIZATION CHARACTERISTICS OF Ca-BASED ABSORBENTS. The Proceedings of the International Conference on Power Engineering (ICOPE), 2003, 2003.3, _3-253_-_3-256_.	0.0	0
62	Synthesis of the zirconium dioxide activated carbon-based heterogeneous acid catalyst to catalyze esterification for biodiesel production with molecular simulation. Biomass Conversion and Biorefinery, 0, , 1.	2.9	2