

Qiang Hu

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,438
citations

394421
19
h-index

580821
25
g-index

25
all docs

25
docs citations

25
times ranked

1513
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen production from biomass gasification using biochar as a catalyst/support. <i>Bioresource Technology</i> , 2016, 216, 159-164.	9.6	215
2	Effects of binders on the properties of bio-char pellets. <i>Applied Energy</i> , 2015, 157, 508-516.	10.1	172
3	Chemical looping gasification of biomass with Fe ₂ O ₃ /CaO as the oxygen carrier for hydrogen-enriched syngas production. <i>Chemical Engineering Journal</i> , 2020, 379, 122346.	12.7	165
4	Thermal behavior and reaction kinetics analysis of pyrolysis and subsequent in-situ gasification of torrefied biomass pellets. <i>Energy Conversion and Management</i> , 2018, 161, 205-214.	9.2	103
5	Biochar industry to circular economy. <i>Science of the Total Environment</i> , 2021, 757, 143820.	8.0	100
6	Thermal behavior, kinetics and gas evolution characteristics for the co-pyrolysis of real-world plastic and tyre wastes. <i>Journal of Cleaner Production</i> , 2020, 260, 121102.	9.3	93
7	The densification of bio-char: Effect of pyrolysis temperature on the qualities of pellets. <i>Bioresource Technology</i> , 2016, 200, 521-527.	9.6	88
8	Hydrogen production from catalytic reforming of the aqueous fraction of pyrolysis bio-oil with modified Ni-Al catalysts. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14642-14652.	7.1	82
9	Integrating food waste sorting system with anaerobic digestion and gasification for hydrogen and methane co-production. <i>Applied Energy</i> , 2020, 257, 113988.	10.1	52
10	Steam co-gasification of horticultural waste and sewage sludge: Product distribution, synergistic analysis and optimization. <i>Bioresource Technology</i> , 2020, 301, 122780.	9.6	46
11	Food-waste anaerobic digestate as a fertilizer: The agronomic properties of untreated digestate and biochar-filtered digestate residue. <i>Waste Management</i> , 2021, 136, 143-152.	7.4	41
12	Study on intrinsic reaction behavior and kinetics during reduction of iron ore pellets by utilization of biochar. <i>Energy Conversion and Management</i> , 2018, 158, 1-8.	9.2	35
13	Thermo-chemical conversion of carbonaceous wastes for CNT and hydrogen production: a review. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4173-4208.	4.9	33
14	Products distribution and kinetic analysis on gaseous products during fast pyrolysis of two kinds of biomass pellet. <i>Fuel</i> , 2019, 249, 8-14.	6.4	30
15	Experimental and modeling study of potassium catalyzed gasification of woody char pellet with CO ₂ . <i>Energy</i> , 2019, 171, 678-688.	8.8	29
16	Food waste treating by biochar-assisted high-solid anaerobic digestion coupled with steam gasification: Enhanced bioenergy generation and porous biochar production. <i>Bioresource Technology</i> , 2021, 331, 125051.	9.6	29
17	Study on the physicochemical structure and gasification reactivity of chars from pyrolysis of biomass pellets under different heating rates. <i>Fuel</i> , 2022, 314, 122789.	6.4	27
18	Insight into the Fe ₂ O ₃ /CaO-based chemical looping process for biomass conversion. <i>Bioresource Technology</i> , 2020, 310, 123384.	9.6	22

#	ARTICLE	IF	CITATIONS
19	A hybrid peripheral fragmentation and shrinking-core model for fixed-bed biomass gasification. Chemical Engineering Journal, 2020, 400, 124940.	12.7	19
20	Inert chemical looping conversion of biochar with iron ore as oxygen carrier: Products conversion kinetics and structural evolution. Bioresource Technology, 2019, 275, 53-60.	9.6	18
21	Sustainable and Highly Efficient Recycling of Plastic Waste into Syngas via a Chemical Looping Scheme. Environmental Science & Technology, 2022, 56, 8953-8963.	10.0	15
22	Solar-driven gasification in an indirectly-irradiated thermochemical reactor with a clapboard-type internally-circulating fluidized bed. Energy Conversion and Management, 2021, 248, 114795.	9.2	13
23	Gaseous production kinetics and solid structure analysis during isothermal conversion of biomass pellet under different atmospheres. Journal of the Energy Institute, 2021, 98, 53-62.	5.3	5
24	Energy and environmental risk assessments of poultry manure sustainable solution: An industrial case study in Singapore. Journal of Cleaner Production, 2022, 339, 130787.	9.3	5
25	Dynamic modeling with experimental calibration for the syngas production from biomass fixed-bed gasification. AIChE Journal, 2021, 67, e17366.	3.6	1