

Qiang Hu

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,438
citations

393982

19
h-index

580395

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.	4.8	215
2	Effects of binders on the properties of bio-char pellets. <i>Applied Energy</i> , 2015, 157, 508-516.	5.1	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.	6.6	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.	4.4	103
5	Biochar industry to circular economy. <i>Science of the Total Environment</i> , 2021, 757, 143820.	3.9	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.	4.6	93
7	The densification of bio-char: Effect of pyrolysis temperature on the qualities of pellets. <i>Bioresource Technology</i> , 2016, 200, 521-527.	4.8	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.	3.8	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.	5.1	52
10	Steam co-gasification of horticultural waste and sewage sludge: Product distribution, synergistic analysis and optimization. <i>Bioresource Technology</i> , 2020, 301, 122780.	4.8	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.	3.7	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.	4.4	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.	2.5	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.	3.4	30
15	Experimental and modeling study of potassium catalyzed gasification of woody char pellet with CO ₂ . <i>Energy</i> , 2019, 171, 678-688.	4.5	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.	4.8	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.	3.4	27
18	Insight into the Fe ₂ O ₃ /CaO-based chemical looping process for biomass conversion. <i>Bioresource Technology</i> , 2020, 310, 123384.	4.8	22

#	ARTICLE	IF	CITATIONS
19	A hybrid peripheral fragmentation and shrinking-core model for fixed-bed biomass gasification. <i>Chemical Engineering Journal</i> , 2020, 400, 124940.	6.6	19
20	Inert chemical looping conversion of biochar with iron ore as oxygen carrier: Products conversion kinetics and structural evolution. <i>Bioresource Technology</i> , 2019, 275, 53-60.	4.8	18
21	Sustainable and Highly Efficient Recycling of Plastic Waste into Syngas via a Chemical Looping Scheme. <i>Environmental Science & Technology</i> , 2022, 56, 8953-8963.	4.6	15
22	Solar-driven gasification in an indirectly-irradiated thermochemical reactor with a clapboard-type internally-circulating fluidized bed. <i>Energy Conversion and Management</i> , 2021, 248, 114795.	4.4	13
23	Gaseous production kinetics and solid structure analysis during isothermal conversion of biomass pellet under different atmospheres. <i>Journal of the Energy Institute</i> , 2021, 98, 53-62.	2.7	5
24	Energy and environmental risk assessments of poultry manure sustainable solution: An industrial case study in Singapore. <i>Journal of Cleaner Production</i> , 2022, 339, 130787.	4.6	5
25	Dynamic modeling with experimental calibration for the syngas production from biomass fixed-bed gasification. <i>AIChE Journal</i> , 2021, 67, e17366.	1.8	1