Shuping Zhang

List of Publications by Year
in descending order

58	2,431	159585 30	206112 48
papers	citations	h-index	g-index

58	58	58	1908
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High quality syngas production from microwave pyrolysis of rice husk with char-supported metallic catalysts. Bioresource Technology, 2015, 191, 17-23.	9.6	154
2	Effects of water washing and torrefaction on the pyrolysis behavior and kinetics of rice husk through TGA and Py-GC/MS. Bioresource Technology, 2016, 199, 352-361.	9.6	133
3	Effects of water washing and torrefaction pretreatments on rice husk pyrolysis by microwave heating. Bioresource Technology, 2015, 193, 442-448.	9.6	119
4	Upgrading of bio-oil from catalytic pyrolysis of pretreated rice husk over Fe-modified ZSM-5 zeolite catalyst. Fuel Processing Technology, 2018, 175, 17-25.	7.2	118
5	Effects of torrefaction and organic-acid leaching pretreatment on the pyrolysis behavior of rice husk. Energy, 2018, 149, 804-813.	8.8	96
6	Performances of syngas production and deposited coke regulation during co-gasification of biomass and plastic wastes over Ni/Î³-Al2O3 catalyst: Role of biomass to plastic ratio in feedstock. Chemical Engineering Journal, 2020, 392, 123728.	12.7	95
7	Effects of wet torrefaction on the physicochemical properties and pyrolysis product properties of rice husk. Energy Conversion and Management, 2017, 141, 403-409.	9.2	91
8	Effects of four types of dilute acid washing on moso bamboo pyrolysis using Pyâ€“GC/MS. Bioresource Technology, 2015, 185, 62-69.	9.6	88
9	High quality H2-rich syngas production from pyrolysis-gasification of biomass and plastic wastes by Niâ€“Fe@Nanofibers/Porous carbon catalyst. International Journal of Hydrogen Energy, 2019, 44, 26193-26203.	7.1	80
10	In-situ catalytic conversion of tar from biomass gasification over carbon nanofibers- supported Fe-Ni bimetallic catalysts. Fuel Processing Technology, 2018, 182, 77-87.	7.2	75
11	Adsorption characteristics and mechanism of Pb(II) by agricultural waste-derived biochars produced from a pilot-scale pyrolysis system. Waste Management, 2019, 100, 287-295.	7.4	75
12	Effects of torrefaction on yield and quality of pyrolysis char and its application on preparation of activated carbon. Journal of Analytical and Applied Pyrolysis, 2016, 119, 217-223.	5.5	63
13	Physicochemical properties and combustion behavior of duckweed during wet torrefaction. Bioresource Technology, 2016, 218, 1157-1162.	9.6	62
14	Physiochemical properties and pyrolysis behavior evaluations of hydrochar from co-hydrothermal treatment of rice straw and sewage sludge. Biomass and Bioenergy, 2020, 140, 105664.	5.7	57
15	Simultaneous production of aromatics-rich bio-oil and carbon nanomaterials from catalytic co-pyrolysis of biomass/plastic wastes and in-line catalytic upgrading of pyrolysis gas. Waste Management, 2021, 121, 95-104.	7.4	54
16	Effect of inorganic species on torrefaction process and product properties of rice husk. Bioresource Technology, 2018, 265, 450-455.	9.6	52
17	A green route for pyrolysis poly-generation of typical high ash biomass, rice husk: Effects on simultaneous production of carbonic oxide-rich syngas, phenol-abundant bio-oil, high-adsorption porous carbon and amorphous silicon dioxide. Bioresource Technology, 2020, 295, 122243.	9.6	48
18	Combination of Light Bio-oil Washing and Torrefaction Pretreatment of Rice Husk: Its Effects on Physicochemical Characteristics and Fast Pyrolysis Behavior. Energy & Fuels, 2016, 30, 3030-3037.	5.1	47

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19	Catalytic cracking of biomass tar using Ni nanoparticles embedded carbon nanofiber/porous carbon catalysts. Energy, 2021, 216, 119285.	8.8	47
20	The synergistic mechanism between coke depositions and gas for H2 production from co-pyrolysis of biomass and plastic wastes via char supported catalyst. Waste Management, 2021, 121, 23-32.	7.4	47
21	Assessment of hydrothermal carbonization and coupling washing with torrefaction of bamboo sawdust for biofuels production. Bioresource Technology, 2018, 258, 111-118.	9.6	46
22	Effects of pretreatment and FeCl3 preload of rice husk on synthesis of magnetic carbon composites by pyrolysis for supercapacitor application. Journal of Analytical and Applied Pyrolysis, 2018, 135, 22-31.	5.5	43
23	Washing pretreatment with light bio-oil and its effect on pyrolysis products of bio-oil and biochar. RSC Advances, 2016, 6, 5270-5277.	3.6	41
24	Catalytic fast pyrolysis of rice husk: Effect of coupling leaching with torrefaction pretreatment. Journal of Analytical and Applied Pyrolysis, 2018, 133, 91-96.	5.5	40
25	Evaluation of pyrolysis behavior and products properties of rice husk after combined pretreatment of washing and torrefaction. Biomass and Bioenergy, 2019, 127, 105293.	5.7	40
26	Synthesis and characterization of rice husk-based magnetic porous carbon by pyrolysis of pretreated rice husk with FeCl3 and ZnCl2. Journal of Analytical and Applied Pyrolysis, 2020, 147, 104806.	5.5	37
27	Synthesis of modified char-supported Niâ€“Fe catalyst with hierarchical structure for catalytic cracking of biomass tar. Renewable Energy, 2021, 174, 188-198.	8.9	36
28	Co-pyrolysis of Sewage Sludge and Rice Straw: Thermal Behavior and Char Characteristic Evaluations. Energy & Fuels, 2020, 34, 607-615.	5.1	35
29	Physicochemical structure and reactivity of char from torrefied rice husk: Effects of inorganic species and torrefaction temperature. Fuel, 2020, 262, 116667.	6.4	35
30	Catalytic activity evaluation and deactivation progress of red mud/carbonaceous catalyst for efficient biomass gasification tar cracking. Fuel, 2022, 323, 124278.	6.4	34
31	Study on co-hydrothermal treatment combined with pyrolysis of rice straw/sewage sludge: Biochar properties and heavy metals behavior. Journal of Analytical and Applied Pyrolysis, 2021, 155, 105074.	5.5	33
32	Investigation of representative components of flue gas used as torrefaction pretreatment atmosphere and its effects on fast pyrolysis behaviors. Bioresource Technology, 2018, 267, 584-590.	9.6	31
33	Pyrolysis behavior of raw/torrefied rice straw after different demineralization processes. Biomass and Bioenergy, 2018, 119, 229-236.	5.7	30
34	Catalytic cracking of biomass tar together with syngas production over red brick powder-supported nickel catalysts. Fuel Processing Technology, 2019, 194, 106123.	7.2	29
35	Preparation and characterization of char supported Ni Cu nanoalloy catalyst for biomass tar cracking together with syngas-rich gas production. Fuel Processing Technology, 2021, 218, 106858.	7.2	29
36	Syngas production at low temperature via the combination of hydrothermal pretreatment and activated carbon catalyst along with value-added utilization of tar and bio-char. Energy Conversion and Management, 2020, 205, 112382.	9.2	26

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37	Effects of MgCl2 and Mg(NO3)2 loading on catalytic pyrolysis of sawdust for bio-oil and MgO-impregnated biochar production. Journal of Analytical and Applied Pyrolysis, 2020, 152, 104962.	5.5	26
38	Catalytic co-pyrolysis of food waste digestate and corn husk with CaO catalyst for upgrading bio-oil. Renewable Energy, 2022, 186, 105-114.	8.9	26
39	Catalytic conversion of plastic wastes using cost-effective bauxite residue as catalyst into H2-rich syngas and magnetic nanocomposites for chrome(VI) detoxification. Journal of Hazardous Materials, 2021, 413, 125289.	12.4	25
40	Construction of Fe embedded graphene nanoshell/carbon nanofibers catalyst for catalytic cracking of biomass tar: Effect of CO2 etching. Fuel, 2021, 305, 121552.	6.4	25
41	Effect of Washing Pretreatment with Aqueous Fraction of Bio-Oil on Pyrolysis Characteristic of Rice Husk and Preparation of Amorphous Silica. Waste and Biomass Valorization, 2018, 9, 861-869.	3.4	22
42	Biomass tar cracking and syngas production using rice husk char-supported nickel catalysts coupled with microwave heating. RSC Advances, 2018, 8, 40873-40882.	3.6	20
43	Impacts and release characteristics of K and Mg contained in rice husk during torrefaction process. Energy, 2019, 186, 115888.	8.8	16
44	Highly porous N-doped carbons production from biomass for high-performance supercapacitors without chemical nitrogen-containing dopants. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, 42, 1797-1807.	2.3	16
45	The influence of preparation method of char supported metallic Ni catalysts on the catalytic performance for reforming of biomass tar. International Journal of Energy Research, 2019, 43, 6922.	4.5	13
46	Release characteristics of potassium and chlorine for torrefied wheat straw during a combined pyrolysis-combustion system. Bioresource Technology, 2020, 312, 123591.	9.6	13
47	Porous Carbons Derived from Desilication Treatment and Mixed Alkali Activation of Rice Husk Char for Supercapacitors. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 282-290.	2.3	9
48	Effect of Sludge-Based Additive on Ash Characteristic and Potassium Fixation during the Rice Straw Combustion Process. Energy & Fuels, 2020, 34, 3367-3375.	5.1	8
49	Upgrading Biomass Fuels via Combination of CO₂-Leaching and Torrefaction. Energy & Fuels, 2021, 35, 5006-5014.	5.1	8
50	Influence of coupling demineralization with the torrefaction pretreatment process on the pyrolysis characteristics and kinetics of rice husk. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 726-732.	2.3	7
51	Combination of acid washing and torrefaction on Co-production of syngas and phenoli-riched bio-oil via low-temperature catalytic pyrolysis. Energy, 2020, 210, 118633.	8.8	5
52	Fractional condensation of pyrolysis oil from fast pyrolysis of food waste digestate for enrichment of high value-added nitrogen-containing components. Journal of Analytical and Applied Pyrolysis, 2022, 166, 105609.	5.5	5
53	Influence of torrefaction on properties of activated carbon obtained from physical activation of pyrolysis char. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 2246-2256.	2.3	4
54	Investigation of molten salt in wet torrefaction and its effects on fast pyrolysis behaviors. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, 42, 577-585.	2.3	4

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55	Simultaneous Catalytic Conversion of Acid-Pretreated Biomass into High-Quality Syngas and Bio-oil at Mild Temperature. Energy & Fuels, 2020, 34, 8366-8375.	5.1	4
56	Investigation of Char Yield and Its Physicochemical Properties with Recycling of Heavy Oil from Biomass Pyrolysis. Energy & Fuels, 2021, 35, 2326-2334.	5.1	4
57	Thermal decomposition behavior and sulfur release characteristics for torrefied wheat straw during pyrolysis process. Bioresource Technology, 2021, 333, 125172.	9.6	4
58	Inhibition mechanism of calcium hydroxide on melting and agglomeration behaviors of lignin under torrefaction temperature range. Fuel Processing Technology, 2022, 235, 107370.	7.2	1