Yi Wang

List of Publications by Year
in descending order

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413	17,439	11908	35168
papers	citations	72	102
		h-index	g-index

415	415	415	11233
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrothermal treatment of furfural and sugar monomers and oligomers: a model-compound approach to probe the cross-polymerization reactions in heating bio-oil. Biomass Conversion and Biorefinery, 2024, 14, 4729-4742.	2.9	0
2	Adsorption of Ni²⁺ in aqueous solution by KMnO₄ modified biomass: investigation on adsorption kinetics and modification mechanism. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.2	8
3	Effect of Calcination Atmosphere on High Temperature H2S Removal of MnxOy/Al2O3 Sorbent in Synthesis Gas. Environmental Science and Engineering, 2022, , 963-973.	0.1	0
4	Evolution of coke structures during electrochemical upgrading of bio-oil. Fuel Processing Technology, 2022, 225, 107036.	3.7	11
5	Steam reforming of sugar and its derivatives: Functionality dictates thermal properties and morphologies of coke. Fuel, 2022, 307, 121798.	3.4	9
6	Catalytic pyrolysis of pine wood over char-supported Fe: Bio-oil upgrading and catalyst regeneration by CO2/H2O. Fuel, 2022, 307, 121778.	3.4	30
7	Catalytic coâ€pyrolysis of macroalgal components with lignocellulosic biomass for enhanced biofuels and highâ€value chemicals. International Journal of Energy Research, 2022, 46, 2674-2697.	2.2	12
8	Demonstration and application of heterogeneous agglomeration technology in a 350ÂMW coal-fired power plant: Removal of particulate matter and trace elements. Fuel, 2022, 309, 122361.	3.4	4
9	Selective conversion of levulinic acid to gamma-valerolactone over Ni-based catalysts: Impacts of catalyst formulation on sintering of nickel. Chemical Engineering Science, 2022, 248, 117258.	1.9	12
10	Production of methyl levulinate from cellulose over cobalt disulfide: The importance of the crystal facet (111). Bioresource Technology, 2022, 347, 126436.	4.8	3
11	Polymerization during low-temperature electrochemical upgrading of bio-oil: Multi-technique characterization of bio-oil evolution. Energy Conversion and Management, 2022, 253, 115165.	4.4	12
12	Coke formation during the pyrolysis of bio-oil: Further understanding on the evolution of radicals. Applications in Energy and Combustion Science, 2022, 9, 100050.	0.9	3
13	Evolution of char structure during the pyrolysis of biomass pellet: Further understanding on the effects of chars two phases. Fuel, 2022, 312, 122994.	3.4	10
14	Sequential pyrolysis of coal and biomass: Influence of coal-derived volatiles on property of biochar. Applications in Energy and Combustion Science, 2022, 9, 100052.	0.9	7
15	Steam reforming of acetone and isopropanol: Investigation of correlation of ketone and alcohol functional groups with properties of coke. Journal of the Energy Institute, 2022, 101, 32-44.	2.7	15
16	Synergy of Oxygen Vacancies and Acid Sites on N-Doped WO₃ Nanobelts for Efficient Câ€“C Coupling Synthesis of Benzoin Isopropyl Ether. ACS Applied Materials & Interfaces, 2022, 14, 4725-4738.	4.0	8
17	A novel sludge pyrolysis and biomass gasification integrated method to enhance hydrogen-rich gas generation. Energy Conversion and Management, 2022, 254, 115205.	4.4	25
18	Pyrolysis reaction mechanism of typical Chinese agriculture and forest waste pellets at high heating rates based on the photo-thermal TGA. Energy, 2022, 244, 123164.	4.5	12

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19	Hypersensitized electrochemical detection of Hg(II) based on tunable sulfur-doped porous Co3O4 nanosheets: Promotion Co2+/Co3+ valence change cycle and adsorption via introducing S. Chemical Engineering Journal, 2022, 435, 134950.	6.6	26
20	Hydrothermal carbonization of cellulose in aqueous phase of bio-oil: The significant impacts on properties of hydrochar. Fuel, 2022, 315, 123132.	3.4	35
21	Correlations of Lewis acidic sites of nickel catalysts with the properties of the coke formed in steam reforming of acetic acid. Journal of the Energy Institute, 2022, 101, 277-289.	2.7	15
22	Influence of CO2 atmosphere on property of biochar from pyrolysis of cellulose. Journal of Environmental Chemical Engineering, 2022, 10, 107339.	3.3	16
23	Synergistic Removal Effects of Ultralow Emission Air Pollution Control Devices on Trace Elements in a Coal-Fired Power Plant. Energy & Fuels, 2022, 36, 2474-2487.	2.5	5
24	Stability Mechanism of Low Temperature C₂H₄â€“SCR with Activated-Carbon-Supported MnO_x-Based Catalyst. ACS Omega, 2022, 7, 12004-12014.	1.6	2
25	Steam reforming of monohydric alcohols and polyalcohols: Influence of single or multiple hydroxyl group(s) on nature of the coke. Journal of Industrial and Engineering Chemistry, 2022, 110, 286-300.	2.9	5
26	Heavy bioâ€oils as bioâ€binders for rice husk densification: Parameter optimization, binding mechanisms and subsequent pyrolysis and combustion performances. Biofuels, Bioproducts and Biorefining, 2022, 16, 1025-1037.	1.9	4
27	Polymerization during low-temperature electrochemical upgrading of bio-oil: Effects of interactions among bio-oil fractions. Energy, 2022, 251, 123944.	4.5	3
28	Review on synergistic effects during co-pyrolysis of biomass and plastic waste: Significance of operating conditions and interaction mechanism. Biomass and Bioenergy, 2022, 159, 106415.	2.9	50
29	Cu-Based Nanoparticles as Catalysts for Selective Hydrogenation of Biomass-Derived 5-Hydroxymethylfurfural to 1,2-Hexanediol. ACS Applied Nano Materials, 2022, 5, 5882-5894.	2.4	9
30	Effects of volatiles on properties of char during sequential pyrolysis of PET and cellulose. Renewable Energy, 2022, 189, 139-151.	4.3	16
31	Involvement of the organics in aqueous phase of bio-oil in hydrothermal carbonization of lignin. Bioresource Technology, 2022, 351, 127055.	4.8	15
32	Catalytic pyrolysis of lignocellulosic biomass for bio-oil production: A review. Chemosphere, 2022, 297, 134181.	4.2	107
33	Modification of nickel-based catalyst with transition metals to tailor reaction intermediates and property of coke in steam reforming of acetic acid. Fuel, 2022, 318, 123698.	3.4	8
34	Pyrolysis of cellulose: Correlation of hydrophilicity with evolution of functionality of biochar. Science of the Total Environment, 2022, 825, 153959.	3.9	19
35	Progress in understanding the coking behavior of typical catalysts in the catalytic pyrolysis of biomass. Sustainable Energy and Fuels, 2022, 6, 2113-2148.	2.5	4
36	Controllable synthesis of yolkâ€“shell nickel phyllosilicate for CO2 methanation: Identifying effect of pore structure of silica sacrificial template. Materials Today Nano, 2022, 18, 100208.	2.3	4

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37	Influence of solvent on aggregation of metallic Cu in Cu/MgO during hydrogenation in liquid phase. Molecular Catalysis, 2022, 524, 112322.	1.0	1
38	N migration and transformation during the co-combustion of sewage sludge and coal slime. Waste Management, 2022, 145, 83-91.	3.7	10
39	Pyrolysis of the food waste collected from catering and households under different temperatures: Assessing the evolution of char structure and bio-oil composition. Journal of Analytical and Applied Pyrolysis, 2022, 164, 105543.	2.6	10
40	Understanding evolution of the products and emissions during chemical activation of furfural residue with varied potassium salts. Journal of Cleaner Production, 2022, 357, 131936.	4.6	12
41	Impacts of temperature on hydrophilicity/functionalities of char and evolution of bio-oil/gas in pyrolysis of pig manure. Fuel, 2022, 323, 124330.	3.4	10
42	Impacts of cooking, pyrolysis and HTC pretreatments of noodles waste on evolution of products in activation. Fuel, 2022, 324, 124644.	3.4	7
43	CO2 methanation over Ni/ZSM-5 catalysts: The effects of support morphology and La2O3 modification. Fuel, 2022, 324, 124679.	3.4	16
44	Synthesis of a Thermally and Hydrothermally Stable Copper-Based Catalyst via Alloying of Cu with Ni and Zn for Catalyzing Conversion of Furfural into Cyclopentanone. ACS Sustainable Chemistry and Engineering, 2022, 10, 8763-8777.	3.2	12
45	Alloying cobalt in Coâ€“Feâ€“Al catalyst for achieving the selective conversion of furfural to cyclopentanone. Renewable Energy, 2022, 195, 957-971.	4.3	9
46	Influence of asphalt-derived volatiles on property of the biochar from pyrolysis of sawdust. Fuel Processing Technology, 2022, 234, 107343.	3.7	7
47	Effects of temperature and aspect ratio on heterogeneity of the biochar from pyrolysis of biomass pellet. Fuel Processing Technology, 2022, 235, 107366.	3.7	14
48	Effects of aspect ratio on char structure during the pyrolysis of sawdust pellet. Fuel, 2022, 325, 124850.	3.4	4
49	Evolution of Stable Free Radicals during Bio-Oil Pyrolysis and Its Relation to Coke Formation: An in Situ EPR Study. Energy & Fuels, 2022, 36, 7608-7616.	2.5	6
50	Steam reforming of guaiacol and n-hexanol for production of hydrogen: Effects of aromatic and aliphatic structures on properties of the coke. Molecular Catalysis, 2022, 528, 112498.	1.0	3
51	Importance of char-volatiles interactions during co-pyrolysis of polypropylene and biomass components. Journal of Environmental Chemical Engineering, 2022, 10, 108202.	3.3	10
52	Competition between acidic sites and hydrogenation sites in Cu/ZrO2 catalysts with different crystal phases for conversion of biomass-derived organics. Green Energy and Environment, 2021, 6, 557-566.	4.7	30
53	Ignition of large size coal in a gas-phase temperature adjustable concentrating photothermal reactor: The influence of volumetric reactions. Fuel Processing Technology, 2021, 213, 106642.	3.7	3
54	Pyrolysis of cellulose: Evolution of functionalities and structure of bio-char versus temperature. Renewable and Sustainable Energy Reviews, 2021, 135, 110416.	8.2	103

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55	Ketonization of xylose over CeO2 to produce mono-functional ketones. Fuel Processing Technology, 2021, 211, 106585.	3.7	11
56	Effects of AAEMs on formation of heavy components in bio-oil during pyrolysis at various temperatures and heating rates. Fuel Processing Technology, 2021, 213, 106690.	3.7	41
57	Simultaneous removal of NO and Hg0 from flue gas over MnSmCo/Ti catalyst at low temperature. Proceedings of the Combustion Institute, 2021, 38, 5331-5338.	2.4	8
58	Volatile-char interactions during biomass pyrolysis: Effect of char preparation temperature. Energy, 2021, 215, 119189.	4.5	39
59	Progress of using biochar as a catalyst in thermal conversion of biomass. Reviews in Chemical Engineering, 2021, 37, 229-258.	2.3	26
60	Robust Anodeâ€Supported Cells with Fast Oxygen Release Channels for Efficient and Stable CO₂ Electrolysis at Ultrahigh Current Densities. Small, 2021, 17, e2007211.	5.2	13
61	Availability of steam impacts coke properties in steam reforming of acetic acid. International Journal of Hydrogen Energy, 2021, 46, 7195-7210.	3.8	5
62	Effects of Glycerol and Propylene Glycol on Smoke Release of Heat-not-burn Tobacco Products. Journal of Physics: Conference Series, 2021, 1802, 022025.	0.3	0
63	The effect of carbon structure in chars on Fe migration and its catalytic activity for benzyl phenyl ether decomposition. Journal of Analytical and Applied Pyrolysis, 2021, 154, 105008.	2.6	4
64	Cross-interaction of volatiles from co-pyrolysis of lignin with pig manure and their effects on properties of the resulting biochar. Biochar, 2021, 3, 391-405.	6.2	15
65	Interaction of the reaction intermediates in co-reforming of acetic acid and ethanol impacts coke properties. Molecular Catalysis, 2021, 504, 111461.	1.0	1
66	Biochar catalyzing polymerization of the volatiles from pyrolysis of poplar wood. International Journal of Energy Research, 2021, 45, 13936-13951.	2.2	11
67	Impacts of residence time on transformation of reaction intermediates and coking behaviors of acetic acid during steam reforming. Journal of the Energy Institute, 2021, 95, 101-119.	2.7	13
68	Waste tire heat treatment to prepare sulfur self-doped char via pyrolysis and K2FeO4-assisted activation methods. Waste Management, 2021, 125, 145-153.	3.7	12
69	MgAl-LDH/LDO-Catalyzed Hydrothermal Deoxygenation of Microalgae for Low-Oxygen Biofuel Production. ACS ES&T Engineering, 2021, 1, 989-999.	3.7	20
70	Impact of heating rates on the evolution of function groups of the biochar from lignin pyrolysis. Journal of Analytical and Applied Pyrolysis, 2021, 155, 105031.	2.6	56
71	Pore diameters of Ni/ZrO2 catalysts affect properties of the coke in steam reforming of acetic acid. International Journal of Hydrogen Energy, 2021, 46, 23642-23657.	3.8	19
72	Insights into evolution mechanism of PAHs in coal thermal conversion: A combined experimental and DFT study. Energy, 2021, 222, 119970.	4.5	17

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73	Hydrogenation of biomass derivatives over Ni/clay catalyst: significant impacts of the treatment of clay with NaOH on the reaction network. Journal of Chemical Technology and Biotechnology, 2021, 96, 2569-2578.	1.6	3
74	Mechanical Characteristics and Energy Consumption of Solid and Hollow Biomass Pellet Production Using a Statistical Analysis of Operating Parameters. Waste and Biomass Valorization, 2021, 12, 6635-6657.	1.8	5
75	Steam reforming of sugars: Roles of hydroxyl group and carbonyl group in coke formation. Fuel, 2021, 292, 120282.	3.4	11
76	Switching production of Î³-valerolactone and 1,4-pentanediol from ethyl levulinate via tailoring alkaline sites of CuMg catalyst and hydrogen solubility in reaction medium. Molecular Catalysis, 2021, 510, 111680.	1.0	8
77	Effects of CO2 and H2O on oxy-fuel combustion characteristics and structural evolutions of Zhundong coal pellet at fast heating rate. Fuel, 2021, 294, 120525.	3.4	8
78	Facilitating selective conversion of furfural to cyclopentanone via reducing availability of metallic nickel sites. Molecular Catalysis, 2021, 510, 111697.	1.0	6
79	An insight into the OPAHs and SPAHs formation mechanisms during alkaline lignin pyrolysis at different temperatures. Journal of Analytical and Applied Pyrolysis, 2021, 156, 105104.	2.6	8
80	Selective hydrogenation of furfural and its derivative over bimetallic NiFe-based catalysts: Understanding the synergy between Ni sites and Niâ€“Fe alloy. Renewable Energy, 2021, 170, 1114-1128.	4.3	47
81	Co-presence of hydrophilic and hydrophobic sites in Ni/biochar catalyst for enhancing the hydrogenation activity. Fuel, 2021, 293, 120426.	3.4	17
82	Cooperation between hydrogenation and acidic sites in Cu-based catalyst for selective conversion of furfural to Î³-valerolactone. Fuel, 2021, 293, 120457.	3.4	38
83	Selective Conversion of Furfural into Diols over Co-Based Catalysts: Importance of the Coordination of Hydrogenation Sites and Basic Sites. Industrial & Engineering Chemistry Research, 2021, 60, 10393-10406.	1.8	21
84	Temporal and spatial evolution of biochar chemical structure during biomass pellet pyrolysis from the insights of micro-Raman spectroscopy. Fuel Processing Technology, 2021, 218, 106839.	3.7	34
85	Co-pyrolysis of cellulose/lignin and sawdust: Influence of secondary condensation of the volatiles on characteristics of biochar. Energy, 2021, 226, 120442.	4.5	62
86	Sequence of Ni/SiO2 and Cu/SiO2 in dual catalyst bed significantly impacts coke properties in glycerol steam reforming. International Journal of Hydrogen Energy, 2021, 46, 26367-26380.	3.8	13
87	Fates of heavy organics of bio-oil in hydrotreatment: The key challenge in the way from biomass to biofuel. Science of the Total Environment, 2021, 778, 146321.	3.9	20
88	Catalytic pyrolysis of polyethylene terephthalate over zeolite catalyst: Characteristics of coke and the products. International Journal of Energy Research, 2021, 45, 19028-19042.	2.2	25
89	Pyrolysis of soybean residue: Understanding characteristics of the products. Renewable Energy, 2021, 174, 487-500.	4.3	17
90	Pyrolysis of flaxseed residue: Exploration of characteristics of the biochar and bio-oil products. Journal of the Energy Institute, 2021, 97, 1-12.	2.7	25

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91	Highly dispersed Ni-La catalysts over mesoporous nanosponge MFI zeolite for low-temperature CO2 methanation: Synergistic effect between mesoporous and microporous channels. Journal of Industrial and Engineering Chemistry, 2021, 100, 159-173.	2.9	10
92	Nickel phyllosilicate derived Ni/SiO2 catalysts for CO2 methanation: Identifying effect of silanol group concentration. Journal of CO2 Utilization, 2021, 50, 101587.	3.3	32
93	Ni/CeO₂ catalysts for lowâ€temperature CO₂ methanation: Identifying effect of support morphology and oxygen vacancy. , 2021, 11, 1222-1233.		7
94	Waste Tire Heat Treatment to Prepare Sulfur Self-Doped Char: Operando Insight into Activation Mechanisms Based on the Char Structures Evolution. Processes, 2021, 9, 1622.	1.3	1
95	Green synthesis of MCM-41 derived from renewable biomass and construction of VOx-Modified nickel phyllosilicate catalyst for CO2 methanation. International Journal of Hydrogen Energy, 2021, 46, 32003-32016.	3.8	20
96	Co-hydrothermal carbonization of swine and chicken manure: Influence of cross-interaction on hydrochar and liquid characteristics. Science of the Total Environment, 2021, 786, 147381.	3.9	38
97	Sulfated ordinary clay for acid-catalyzed conversion of biomass derivatives: Impacts of abundance and types of acidic sites on catalytic performance. Journal of Solid State Chemistry, 2021, 301, 122302.	1.4	1
98	A solid iron salt catalyst for selective conversion of biomass-derived C5 sugars to furfural. Fuel, 2021, 300, 120990.	3.4	29
99	Progress in application of the pyrolytic lignin from pyrolysis of biomass. Chemical Engineering Journal, 2021, 419, 129560.	6.6	38
100	Effects of Parent Coal Properties on the Pyrolytic Char Chemical Structure: Insights from Micro-Raman Spectroscopy Based on 32 Kinds of Chinese Coals. Processes, 2021, 9, 1575.	1.3	1
101	Synthesis and Regeneration of Ni-Phyllosilicate Catalysts Using a Versatile Double-Accelerator Method: A Comprehensive Study. ACS Catalysis, 2021, 11, 12570-12584.	5.5	27
102	Experimental and DFT research on role of sodium in NO reduction on char surface under H2O/Ar atmosphere. Fuel, 2021, 302, 121105.	3.4	13
103	Steam reforming of alcohols and carboxylic acids: Importance of carboxyl and alcoholic hydroxyl groups on coke properties. Journal of the Energy Institute, 2021, 98, 85-97.	2.7	14
104	Decomposition of benzyl phenyl ether over char-supported Ni: The effect of char structures. Fuel Processing Technology, 2021, 221, 106941.	3.7	12
105	Co-hydrothermal carbonization of swine manure and cellulose: Influence of mutual interaction of intermediates on properties of the products. Science of the Total Environment, 2021, 791, 148134.	3.9	16
106	Effects of CO2 and H2O on coal pyrolysis with the ultrafast heating rate in a concentrating photothermal reactor. Journal of the Energy Institute, 2021, 98, 44-52.	2.7	8
107	Roles of calcium oxide on the evolution of substituted polycyclic aromatic hydrocarbons released from sewage sludge pyrolysis. Journal of Cleaner Production, 2021, 317, 128324.	4.6	14
108	Exploring the influence of nickel precursors on constructing efficient Ni-based CO2 methanation catalysts assisted with in-situ technologies. Applied Catalysis B: Environmental, 2021, 297, 120486.	10.8	37

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109	Polymerization of sugars/furan model compounds and bio-oil during the acid-catalyzed conversion â€“ A review. Fuel Processing Technology, 2021, 222, 106958.	3.7	12
110	Pyrolysis of sesame residue: Evolution of the volatiles and structures of biochar versus temperature. Environmental Technology and Innovation, 2021, 24, 101859.	3.0	9
111	Steam reforming of n-hexane and toluene: Understanding impacts of structural difference of aliphatic and aromatic hydrocarbons on their coking behaviours. Journal of Environmental Chemical Engineering, 2021, 9, 106383.	3.3	9
112	Coke formation and its impacts during electrochemical upgrading of bio-oil. Fuel, 2021, 306, 121664.	3.4	7
113	In situ characterization of functional groups of biochar in pyrolysis of cellulose. Science of the Total Environment, 2021, 799, 149354.	3.9	50
114	Co-pyrolysis of swine manure and pinewood sawdust: Evidence of cross-interaction of the volatiles and profound impacts on product characteristics. Renewable Energy, 2021, 179, 1370-1384.	4.3	13
115	Raman Spectroscopy as a Versatile Tool for Investigating Thermochemical Processing of Coal, Biomass, and Wastes: Recent Advances and Future Perspectives. Energy & Fuels, 2021, 35, 2870-2913.	2.5	48
116	Online characterization of pyrolysis products and kinetics study for the pyrolysis of a coal. Journal of Analytical and Applied Pyrolysis, 2021, 160, 105376.	2.6	13
117	Comprehensive study on the effect of CO2 on coal pyrolysis at fast heating rate. Energy Reports, 2021, 7, 1369-1378.	2.5	1
118	Ethanol steam reforming over cobalt catalysts: Effect of a range of additives on the catalytic behaviors. Journal of the Energy Institute, 2020, 93, 165-184.	2.7	24
119	Impacts of La addition on formation of the reaction intermediates over alumina and silica supported nickel catalysts in methanation of CO2. Journal of the Energy Institute, 2020, 93, 723-738.	2.7	27
120	A comparative study of catalytic behaviors of Mn, Fe, Co, Ni, Cu and Znâ€“Based catalysts in steam reforming of methanol, acetic acid and acetone. International Journal of Hydrogen Energy, 2020, 45, 3815-3832.	3.8	78
121	Steam reforming of typical small organics derived from bio-oil: Correlation of their reaction behaviors with molecular structures. Fuel, 2020, 259, 116214.	3.4	30
122	Steam reforming of acetic acid over nickel catalysts: Impacts of fourteen additives on the catalytic behaviors. Journal of the Energy Institute, 2020, 93, 1000-1019.	2.7	19
123	Impacts of temperature on evolution of char structure during pyrolysis of lignin. Science of the Total Environment, 2020, 699, 134381.	3.9	52
124	Combustion behavior of large size coal over a wide range of heating rates in a concentrating photothermal reactor. Fuel Processing Technology, 2020, 197, 106187.	3.7	8
125	Methanation of CO2 over nickel catalysts: Impacts of acidic/basic sites on formation of the reaction intermediates. Fuel, 2020, 262, 116521.	3.4	59
126	Sulfated Zirconia with Different Crystal Phases for the Production of Ethyl Levulinate and 5â€Hydroxymethylfurfural. Energy Technology, 2020, 8, 1900951.	1.8	15

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127	Liquid phase separation and coreâ€“shell morphology of Al₇₅Bi₉Sn₁₆immiscible alloy. Physics and Chemistry of Liquids, 2020, 58, 230-245.	0.4	2
128	Investigation of coking behaviors of model compounds in bio-oil during steam reforming. Fuel, 2020, 265, 116961.	3.4	43
129	Chemical imaging of coal in micro-scale with Raman mapping technology. Fuel, 2020, 264, 116826.	3.4	36
130	Clay as support for copper catalysts for the hydrogenation of furfural and phenolics. Journal of Chemical Technology and Biotechnology, 2020, 95, 1400-1411.	1.6	9
131	Mini-Review on Char Catalysts for Tar Reforming during Biomass Gasification: The Importance of Char Structure. Energy & Fuels, 2020, 34, 1219-1229.	2.5	98
132	Effect of temperature on multiple competitive processes for co-production of carbon nanotubes and hydrogen during catalytic reforming of toluene. Fuel, 2020, 264, 116749.	3.4	22
133	Silica of varied pore sizes as supports of copper catalysts for hydrogenation of furfural and phenolics: Impacts of steric hindrance. International Journal of Hydrogen Energy, 2020, 45, 2720-2728.	3.8	9
134	Assessing the chemical composition of heavy components in bio-oils from the pyrolysis of cellulose, hemicellulose and lignin at slow and fast heating rates. Fuel Processing Technology, 2020, 199, 106299.	3.7	97
135	Progress in catalytic pyrolysis of municipal solid waste. Energy Conversion and Management, 2020, 226, 113525.	4.4	75
136	Study on supercritical CO2 coal-fired boiler based on improved genetic algorithm. Energy Conversion and Management, 2020, 221, 113163.	4.4	18
137	Sulfur self-doped char with high specific capacitance derived from waste tire: Effects of pyrolysis temperature. Science of the Total Environment, 2020, 741, 140193.	3.9	43
138	Effects of the Gas-/Liquid-Phase Interactions on the Evolution of Bio-oil during Its Thermal Treatment. Energy & Fuels, 2020, 34, 8482-8492.	2.5	9
139	Ordinary clay as a support of nickel catalyst for steam reforming of acetic acid: Impacts of pretreatments of clay on catalytic behaviors. International Journal of Energy Research, 2020, 44, 10378-10393.	2.2	11
140	Sulfated attapulgite for catalyzing the conversion of furfuryl alcohol to ethyl levulinate: Impacts of sulfonation on structural transformation and evolution of acidic sites on the catalyst. Renewable Energy, 2020, 162, 1576-1586.	4.3	16
141	Impact of Acidic/Basic Sites of the Catalyst on Properties of the Coke Formed in Pyrolysis of Guaiacol: A Model Compound of the Phenolics in Bio-oil. Energy & Fuels, 2020, 34, 11026-11040.	2.5	13
142	Catalytic pyrolysis of tire waste: Impacts of biochar catalyst on product evolution. Waste Management, 2020, 116, 9-21.	3.7	46
143	One-step preparation of a N-CNTs@Ni foam electrode material with the co-production of H2 by catalytic reforming of N-containing compound of biomass tar. Fuel, 2020, 280, 118601.	3.4	9
144	Comprehensive evaluation of hydro-liquefaction characteristics of lignocellulosic subcomponents. Journal of the Energy Institute, 2020, 93, 1705-1712.	2.7	11

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145	Pyrolysis of saw dust with co-feeding of methanol. Renewable Energy, 2020, 160, 1023-1035.	4.3	18
146	Mesoporous Ce-Zr solid solutions supported Ni-based catalysts for low-temperature CO2 methanation by tuning the reaction intermediates. Fuel, 2020, 282, 118813.	3.4	28
147	Progress of the applications of bio-oil. Renewable and Sustainable Energy Reviews, 2020, 134, 110124.	8.2	154
148	Optimization of Cathode Functional Layers of Solid Oxide Electrolysis Cells. ACS Applied Materials & Interfaces, 2020, 12, 40917-40924.	4.0	5
149	Progress of the development of reactors for pyrolysis of municipal waste. Sustainable Energy and Fuels, 2020, 4, 5885-5915.	2.5	32
150	Pyrolysis of herb waste: Effects of extraction pretreatment on characteristics of bio-oil and biochar. Biomass and Bioenergy, 2020, 143, 105801.	2.9	13
151	Interaction of the volatiles from co-pyrolysis of pig manure with cellulose/glucose and their effects on char properties. Journal of Environmental Chemical Engineering, 2020, 8, 104583.	3.3	20
152	Impacts of co-feeding alcohols on pyrolysis of cellulose. Journal of the Energy Institute, 2020, 93, 2474-2487.	2.7	0
153	A MoO_x-doped Ni/3D-SBA-15 catalyst for CO methanation: the effect of a solvent and a MoO_x promoter on the catalytic properties. Sustainable Energy and Fuels, 2020, 4, 3042-3050.	2.5	12
154	Experimental study and economic feasibility analysis on the production of bio-oil by catalytic cracking of three kinds of microalgae. Journal of Analytical and Applied Pyrolysis, 2020, 149, 104835.	2.6	24
155	Innovative system configuration analysis and design principle study for different capacity supercritical carbon dioxide coal-fired power plant. Applied Thermal Engineering, 2020, 174, 115298.	3.0	18
156	Raman spectroscopy of biochar from the pyrolysis of three typical Chinese biomasses: A novel method for rapidly evaluating the biochar property. Energy, 2020, 202, 117644.	4.5	81
157	Solidification and Leaching Behaviors of V and As in a Spent Catalyst-Containing Concrete. Energy & Fuels, 2020, 34, 7209-7217.	2.5	5
158	Impacts of water-organic solvents on polymerization of the sugars and furans in bio-oil. Bioresource Technology Reports, 2020, 10, 100419.	1.5	6
159	Different reaction behaviours of light or heavy density polyethylene during the pyrolysis with biochar as the catalyst. Journal of Hazardous Materials, 2020, 399, 123075.	6.5	74
160	Cross-polymerisation between the model furans and carbohydrates in bio-oil with acid or alkaline catalysts. Journal of the Energy Institute, 2020, 93, 1678-1689.	2.7	18
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