Jun Xiang

List of Publications by Year
in descending order

590 papers	22,268 citations	8180 76 h-index	25787 108 g-index
592 all docs	592 docs citations	592 times ranked	14244 citing authors

#	Article	IF	Citations
1	Thermochemical processing of sewage sludge to energy and fuel: Fundamentals, challenges and considerations. Renewable and Sustainable Energy Reviews, 2017, 80, 888-913.	16.4	428
2	Biomass pyrolysis: A review of the process development and challenges from initial researches up to the commercialisation stage. Journal of Energy Chemistry, 2019, 39, 109-143.	12.9	412
3	Enhancing carbon dioxide gas-diffusion electrolysis by creating a hydrophobic catalyst microenvironment. Nature Communications, 2021, 12, 136.	12.8	288
4	Pyrolysis and dehalogenation of plastics from waste electrical and electronic equipment (WEEE): A review. Waste Management, 2013, 33, 462-473.	7.4	224
5	Effect of temperature on gas composition and char structural features of pyrolyzed agricultural residues. Bioresource Technology, 2011, 102, 8211-8219.	9.6	208
6	Chemical recycling of brominated flame retarded plastics from e-waste for clean fuels production: A review. Renewable and Sustainable Energy Reviews, 2016, 61, 433-450.	16.4	203
7	Levulinic esters from the acid-catalysed reactions of sugars and alcohols as part of a bio-refinery. Green Chemistry, 2011, 13, 1676.	9.0	200
8	Evaluation of the porous structure development of chars from pyrolysis of rice straw: Effects of pyrolysis temperature and heating rate. Journal of Analytical and Applied Pyrolysis, 2012, 98, 177-183.	5.5	189
9	Characterization of solid residues from municipal solid waste incinerator. Fuel, 2004, 83, 1397-1405.	6.4	186
10	Influence of different demineralization treatments on physicochemical structure and thermal degradation of biomass. Bioresource Technology, 2013, 146, 254-260.	9.6	179
11	The activity and mechanism study of Feâ€"Mnâ€"Ce/Î³-Al 2 O 3 catalyst for low temperature selective catalytic reduction of NO with NH 3. Fuel, 2015, 139, 232-239.	6.4	177
12	Catalytic effects of inherent alkali and alkaline earth metallic species on steam gasification of biomass. International Journal of Hydrogen Energy, 2015, 40, 15460-15469.	7.1	162
13	Effects of inherent alkali and alkaline earth metallic species on biomass pyrolysis at different temperatures. Bioresource Technology, 2015, 192, 23-30.	9.6	161
14	Release characteristics of alkali and alkaline earth metallic species during biomass pyrolysis and steam gasification process. Bioresource Technology, 2012, 116, 278-284.	9.6	160
15	Investigation of the steam reforming of a series of model compounds derived from bio-oil for hydrogen production. Applied Catalysis B: Environmental, 2009, 88, 376-385.	20.2	157
16	Acid-Catalyzed Conversion of Xylose in 20 Solvents: Insight into Interactions of the Solvents with Xylose, Furfural, and the Acid Catalyst. ACS Sustainable Chemistry and Engineering, 2014, 2, 2562-2575.	6.7	157
17	Gas-phase elemental mercury removal by novel carbon-based sorbents. Carbon, 2012, 50, 362-371.	10.3	156
18	Zeroâ€Dimensional Perovskite Nanocrystals for Efficient Luminescent Solar Concentrators. Advanced Functional Materials, 2019, 29, 1902262.	14.9	156

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19	Investigation of steam reforming of acetic acid to hydrogen over Niâ€“Co metal catalyst. Journal of Molecular Catalysis A, 2007, 261, 43-48.	4.8	155
20	Evolution of Aromatic Structures during the Low-Temperature Electrochemical Upgrading of Bio-oil. Energy & Fuels, 2019, 33, 11292-11301.	5.1	154
21	Progress of the applications of bio-oil. Renewable and Sustainable Energy Reviews, 2020, 134, 110124.	16.4	154
22	Polymerization on heating up of bioâ€oil: A model compound study. AIChE Journal, 2013, 59, 888-900.	3.6	150
23	Reaction pathways of glucose during esterification: Effects of reaction parameters on the formation of humin type polymers. Bioresource Technology, 2011, 102, 10104-10113.	9.6	140
24	Cobalt manganese oxides modified titania catalysts for oxidation of elemental mercury at low flue gas temperature. Chemical Engineering Journal, 2014, 236, 29-38.	12.7	137
25	Effects of heating rate on the evolution of bio-oil during its pyrolysis. Energy Conversion and Management, 2018, 163, 420-427.	9.2	137
26	FTIR study of pyrolysis products evolving from typical agricultural residues. Journal of Analytical and Applied Pyrolysis, 2010, 88, 117-123.	5.5	133
27	Removal of elemental mercury by bamboo charcoal impregnated with H2O2. Fuel, 2011, 90, 1471-1475.	6.4	133
28	Comparative study of alumina-supported transition metal catalysts for hydrogen generation by steam reforming of acetic acid. Applied Catalysis B: Environmental, 2010, 99, 289-297.	20.2	131
29	The activity and characterization of MnOxâ€“CeO2â€“ZrO2/Î³-Al2O3 catalysts for low temperature selective catalytic reduction of NO with NH3. Chemical Engineering Journal, 2014, 243, 347-354.	12.7	123
30	Copper-based catalysts with tunable acidic and basic sites for the selective conversion of levulinic acid/ester to Î³-valerolactone or 1,4-pentanediol. Green Chemistry, 2019, 21, 4499-4511.	9.0	123
31	Coke Formation during Thermal Treatment of Bio-oil. Energy & Fuels, 2020, 34, 7863-7914.	5.1	123
32	Catalytic oxidation of Hg0 by CuOâ€“MnO2â€“Fe2O3/Î³-Al2O3 catalyst. Chemical Engineering Journal, 2013, 225, 68-75.	12.7	117
33	Recent Developments in Polymeric Carbon Nitride-Derived Photocatalysts and Electrocatalysts for Nitrogen Fixation. ACS Catalysis, 2019, 9, 10260-10278.	11.2	116
34	Impacts of nickel loading on properties, catalytic behaviors of Ni/Î³â€“Al2O3 catalysts and the reaction intermediates formed in methanation of CO2. International Journal of Hydrogen Energy, 2019, 44, 9291-9306.	7.1	116
35	Fundamental Advances in Biomass Autothermal/Oxidative Pyrolysis: A Review. ACS Sustainable Chemistry and Engineering, 2020, 8, 11888-11905.	6.7	111
36	Steam reforming of acetic acid over Ni/ZrO2 catalysts: Effects of nickel loading and particle size on product distribution and coke formation. Applied Catalysis A: General, 2012, 417-418, 281-289.	4.3	107

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37	Characterization of char from rapid pyrolysis of rice husk. Fuel Processing Technology, 2008, 89, 1096-1105.	7.2	106
38	Role of O-containing functional groups in biochar during the catalytic steam reforming of tar using the biochar as a catalyst. Fuel, 2019, 253, 441-448.	6.4	104
39	Evolution of the functionalities and structures of biochar in pyrolysis of poplar in a wide temperature range. Bioresource Technology, 2020, 304, 123002.	9.6	104
40	High yields of solid carbonaceous materials from biomass. Green Chemistry, 2019, 21, 1128-1140.	9.0	103
41	Pyrolysis of cellulose: Evolution of functionalities and structure of bio-char versus temperature. Renewable and Sustainable Energy Reviews, 2021, 135, 110416.	16.4	103
42	A study of the relationships between coal structures and combustion characteristics: The insights from micro-Raman spectroscopy based on 32 kinds of Chinese coals. Applied Energy, 2018, 212, 46-56.	10.1	102
43	The significance of pelletization operating conditions: An analysis of physical and mechanical characteristics as well as energy consumption of biomass pellets. Renewable and Sustainable Energy Reviews, 2019, 105, 332-348.	16.4	102
44	Tuning the Microenvironment in Gas-Diffusion Electrodes Enables High-Rate CO₂ Electrolysis to Formate. ACS Energy Letters, 2021, 6, 1694-1702.	17.4	101
45	One-Pot Synthesis of Levulinic Acid/Ester from C5 Carbohydrates in a Methanol Medium. ACS Sustainable Chemistry and Engineering, 2013, 1, 1593-1599.	6.7	100
46	Methanation of CO2 over Ni/Al2O3 modified with alkaline earth metals: Impacts of oxygen vacancies on catalytic activity. International Journal of Hydrogen Energy, 2019, 44, 8197-8213.	7.1	99
47	Structural evolution of maize stalk/char particles during pyrolysis. Bioresource Technology, 2009, 100, 4877-4883.	9.6	98
48	Upgrading biomass-derived furans via acid-catalysis/hydrogenation: the remarkable difference between water and methanol as the solvent. Green Chemistry, 2015, 17, 219-224.	9.0	98
49	Mini-Review on Char Catalysts for Tar Reforming during Biomass Gasification: The Importance of Char Structure. Energy & Fuels, 2020, 34, 1219-1229.	5.1	98
50	Pyrolysis of poplar, cellulose and lignin: Effects of acidity and alkalinity of the metal oxide catalysts. Journal of Analytical and Applied Pyrolysis, 2018, 134, 590-605.	5.5	97
51	Ag modified Mnâ€“Ce/Î³-Al2O3 catalyst for selective catalytic reduction of NO with NH3 at low-temperature. Fuel Processing Technology, 2015, 135, 66-72.	7.2	96
52	Benign-by-design N-doped carbonaceous materials obtained from the hydrothermal carbonization of sewage sludge for supercapacitor applications. Green Chemistry, 2020, 22, 3885-3895.	9.0	96
53	Upgrading of bio-oil via acid-catalyzed reactions in alcohols â€" A mini review. Fuel Processing Technology, 2017, 155, 2-19.	7.2	95
54	Steam reforming of acetic acid over Ni/Al2O3 catalysts: Correlation of nickel loading with properties and catalytic behaviors of the catalysts. Fuel, 2018, 217, 389-403.	6.4	95

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55	Effects of steam and CO2 on the characteristics of chars during devolatilization in oxy-steam combustion process. Applied Energy, 2016, 182, 20-28.	10.1	93
56	Formation of coke during the pyrolysis of bio-oil. Fuel, 2013, 108, 439-444.	6.4	91
57	Effects of volatileâ€“char interactions on in situ destruction of nascent tar during the pyrolysis and gasification of biomass. Part I. Roles of nascent char. Fuel, 2014, 122, 60-66.	6.4	91
58	Interaction and kinetic analysis for coal and biomass co-gasification by TGâ€“FTIR. Bioresource Technology, 2014, 154, 313-321.	9.6	90
59	Steam reforming of acetic acid over nickel-based catalysts: The intrinsic effects of nickel precursors on behaviors of nickel catalysts. Applied Catalysis B: Environmental, 2018, 237, 538-553.	20.2	90
60	Preparation and characterization of Fe2O3â€“SiO2 composite and its effect on elemental mercury removal. Chemical Engineering Journal, 2012, 195-196, 218-225.	12.7	86
61	Exergy analysis of a 1000â€¯MW single reheat supercritical CO2 Brayton cycle coal-fired power plant. Energy Conversion and Management, 2018, 173, 348-358.	9.2	86
62	Formation of gâ€C₃N₄ Nanotubes towards Superior Photocatalysis Performance. ChemCatChem, 2019, 11, 4558-4567.	3.7	86
63	Recent Progresses in Constructing the Highly Efficient Ni Based Catalysts With Advanced Low-Temperature Activity Toward CO2 Methanation. Frontiers in Chemistry, 2020, 8, 269.	3.6	85
64	Electrochemical detection of hydroquinone with a gold nanoparticle and graphene modified carbon ionic liquid electrode. Sensors and Actuators B: Chemical, 2012, 168, 27-33.	7.8	84
65	Char Structural Evolution during Pyrolysis and Its Influence on Combustion Reactivity in Air and Oxy-Fuel Conditions. Energy & Fuels, 2012, 26, 1565-1574.	5.1	83
66	Study on the gas evolution and char structural change during pyrolysis of cotton stalk. Journal of Analytical and Applied Pyrolysis, 2012, 97, 130-136.	5.5	83
67	Acidâ€Catalyzed Conversion of Xylose in Methanolâ€Rich Medium as Part of Biorefinery. ChemSusChem, 2012, 5, 1427-1434.	6.8	83
68	A mini review of the specialties of the bio-oils produced from pyrolysis of 20 different biomasses. Renewable and Sustainable Energy Reviews, 2019, 114, 109313.	16.4	83
69	Catalytic oxidation of Hg0 by MnOxâ€“CeO2/Î³-Al2O3 catalyst at low temperatures. Chemosphere, 2014, 101, 49-54.	8.2	82
70	One-pot conversion of biomass-derived xylose and furfural into levulinate esters via acid catalysis. Chemical Communications, 2017, 53, 2938-2941.	4.1	82
71	Catalytic pyrolysis of poplar wood over transition metal oxides: Correlation of catalytic behaviors with physiochemical properties of the oxides. Biomass and Bioenergy, 2019, 124, 125-141.	5.7	82
72	Investigation of pathways for transformation of Nâ€heterocycle compounds during sewage sludge pyrolysis process. Fuel Processing Technology, 2018, 182, 37-44.	7.2	81

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73	Pyrolysis of different wood species: Impacts of C/H ratio in feedstock on distribution of pyrolysis products. Biomass and Bioenergy, 2019, 120, 28-39.	5.7	81
74	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.	8.8	81
75	Steam reforming of guaiacol over Ni/Al2O3 and Ni/SBA-15: Impacts of support on catalytic behaviors of nickel and properties of coke. Fuel Processing Technology, 2019, 191, 138-151.	7.2	78
76	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.	7.1	78
77	Effects of temperature on the hydrotreatment behaviour of pyrolysis bio-oil and coke formation in a continuous hydrotreatment reactor. Fuel Processing Technology, 2016, 148, 175-183.	7.2	77
78	Evolution of char structure during steam gasification of the chars produced from rapid pyrolysis of rice husk. Bioresource Technology, 2012, 114, 691-697.	9.6	76
79	Elemental mercury (Hg0) removal from containing SO2/NO flue gas by magnetically separable Fe2.45Ti0.55O4/H2O2 advanced oxidation processes. Chemical Engineering Journal, 2015, 273, 381-389.	12.7	75
80	Effects of oxygen species from Fe addition on promoting steam reforming of toluene over Feâ€“Ni/Al2O3 catalysts. International Journal of Hydrogen Energy, 2016, 41, 17967-17975.	7.1	75
81	Progress in the reforming of bio-oil derived carboxylic acids for hydrogen generation. Journal of Power Sources, 2018, 403, 137-156.	7.8	75
82	Ultra-stable CsPbBr3 Perovskite Nanosheets for X-Ray Imaging Screen. Nano-Micro Letters, 2019, 11, 52.	27.0	75
83	Inhibition of methane formation in steam reforming reactions through modification of Ni catalyst and the reactants. Green Chemistry, 2009, 11, 724.	9.0	74
84	Acetic acid steam reforming to hydrogen over Coâ€“Ce/Al2O3 and Coâ€“La/Al2O3 catalystsâ€"The promotion effect of Ce and La addition. Catalysis Communications, 2010, 12, 50-53.	3.3	74
85	Mediating acid-catalyzed conversion of levoglucosan into platform chemicals with various solvents. Green Chemistry, 2012, 14, 3087.	9.0	74
86	Exergy analysis of a 1000 MW double reheat ultra-supercritical power plant. Energy Conversion and Management, 2017, 147, 155-165.	9.2	74
87	Different reaction behaviours of light or heavy density polyethylene during the pyrolysis with biochar as the catalyst. Journal of Hazardous Materials, 2020, 399, 123075.	12.4	74
88	Direct conversion of furfural to levulinic acid/ester in dimethoxymethane: Understanding the mechanism for polymerization. Green Energy and Environment, 2019, 4, 400-413.	8.7	73
89	Efficient Sm modified Mn/TiO2 catalysts for selective catalytic reduction of NO with NH3 at low temperature. Applied Catalysis A: General, 2020, 592, 117413.	4.3	72
90	Fractal characteristic of three Chinese coals. Fuel, 2004, 83, 1307-1313.	6.4	71

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91	Upgrading of bio-oil into advanced biofuels and chemicals. Part III. Changes in aromatic structure and coke forming propensity during the catalytic hydrotreatment of a fast pyrolysis bio-oil with Pd/C catalyst. Fuel, 2014, 116, 642-649.	6.4	71
92	Acid-catalysed reactions between methanol and the bio-oil from the fast pyrolysis of mallee bark. Fuel, 2012, 97, 512-522.	6.4	70
93	Study on Char Surface Active Sites and Their Relationship to Gasification Reactivity. Energy & Fuels, 2013, 27, 118-125.	5.1	70
94	Exergy analysis of the turbine system in a 1000ÂMW double reheat ultra-supercritical power plant. Energy, 2017, 119, 540-548.	8.8	70
95	CO2 sequestration by direct gasâ€"solid carbonation of fly ash with steam addition. Journal of Cleaner Production, 2018, 178, 98-107.	9.3	69
96	Effects of temperature on the yields and properties of bio-oil from the fast pyrolysis of mallee bark. Fuel, 2013, 108, 400-408.	6.4	68
97	Effects of volatileâ€"char interactions on in-situ destruction of nascent tar during the pyrolysis and gasification of biomass. Part II. Roles of steam. Fuel, 2015, 143, 555-562.	6.4	68
98	Effects of reaction conditions on the emission behaviors of arsenic, cadmium and lead during sewage sludge pyrolysis. Bioresource Technology, 2017, 236, 138-145.	9.6	68
99	Carbon nanotubes formation and its influence on steam reforming of toluene over Ni/Al2O3 catalysts: Roles of catalyst supports. Fuel Processing Technology, 2018, 176, 7-14.	7.2	68
100	Destruction of tar during volatile-char interactions at low temperature. Fuel Processing Technology, 2018, 171, 215-222.	7.2	68
101	Bio-oil steam reforming, partial oxidation or oxidative steam reforming coupled with bio-oil dry reforming to eliminate CO2 emission. International Journal of Hydrogen Energy, 2010, 35, 7169-7176.	7.1	67
102	Mechanism on heavy metals vaporization from municipal solid waste fly ash by MgCl 2 â‹…6H 2 O. Waste Management, 2016, 49, 124-130.	7.4	66
103	Production of value-added chemicals from bio-oil via acid catalysis coupled with liquidâ€"liquid extraction. RSC Advances, 2012, 2, 9366.	3.6	65
104	Catalytic steam reforming of cellulose-derived compounds using a char-supported iron catalyst. Fuel Processing Technology, 2013, 116, 234-240.	7.2	65
105	Effects of CO2 and heating rate on the characteristics of chars prepared in CO2 and N2 atmospheres. Fuel, 2015, 142, 243-249.	6.4	65
106	Biomass-derived sugars and furans: Which polymerize more during their hydrolysis?. Fuel Processing Technology, 2015, 137, 212-219.	7.2	64
107	Acid-catalyzed conversion of C6 sugar monomer/oligomers to levulinic acid in water, tetrahydrofuran and toluene: Importance of the solvent polarity. Fuel, 2015, 141, 56-63.	6.4	64
108	Steam reforming of acetic acid over cobalt catalysts: Effects of Zr, Mg and K addition. International Journal of Hydrogen Energy, 2017, 42, 4793-4803.	7.1	63

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109	The performance and mechanism of bifunctional biocide sodium pyrithione against sulfate reducing bacteria in X80 carbon steel corrosion. Corrosion Science, 2019, 150, 296-308.	6.6	63
110	Balanced distribution of BrÃ¸nsted acidic sites and Lewis acidic sites for highly selective conversion of xylose into levulinic acid/ester over Zr-beta catalysts. Green Chemistry, 2019, 21, 6634-6645.	9.0	63
111	Importance of Magnesium in Cu-Based Catalysts for Selective Conversion of Biomass-Derived Furan Compounds to Diols. ACS Sustainable Chemistry and Engineering, 2020, 8, 5217-5228.	6.7	63
112	Acid-catalyzed conversion of mono- and poly-sugars into platform chemicals: Effects of molecular structure of sugar substrate. Bioresource Technology, 2013, 133, 469-474.	9.6	62
113	Pyrolysis of waste surgical masks into liquid fuel and its life-cycle assessment. Bioresource Technology, 2022, 346, 126582.	9.6	62
114	Getting insight into the oxidation of SO2 to SO3 over V2O5-WO3/TiO2 catalysts: Reaction mechanism and effects of NO and NH3. Chemical Engineering Journal, 2019, 361, 1215-1224.	12.7	61
115	Molecular structure characterization of the tetrahydrofuran-microwave-extracted portions from three Chinese low-rank coals. Fuel, 2017, 189, 178-185.	6.4	60
116	Hydrothermal liquefaction of cellulose in ammonia/water. Bioresource Technology, 2019, 278, 311-317.	9.6	60
117	Dewatering of sewage sludge via thermal hydrolysis with ammonia-treated Fenton iron sludge as skeleton material. Journal of Hazardous Materials, 2019, 379, 120810.	12.4	59
118	Pyrolysis of the aromatic-poor and aromatic-rich fractions of bio-oil: Characterization of coke structure and elucidation of coke formation mechanism. Applied Energy, 2019, 239, 981-990.	10.1	59
119	Methanation of CO2 over nickel catalysts: Impacts of acidic/basic sites on formation of the reaction intermediates. Fuel, 2020, 262, 116521.	6.4	59
120	Pruning of the surface species on Ni/Al2O3 catalyst to selective production of hydrogen via acetone and acetic acid steam reforming. Applied Catalysis A: General, 2012, 427-428, 49-57.	4.3	58
121	Intrinsic Effects of Ruddlesdenâ€Popperâ€Based Bifunctional Catalysts for Highâ€Temperature Oxygen Reduction and Evolution. Advanced Energy Materials, 2019, 9, 1901573.	19.5	58
122	Opposite effects of self-growth amorphous carbon and carbon nanotubes on the reforming of toluene with Ni/Î±-Al2O3 for hydrogen production. International Journal of Hydrogen Energy, 2017, 42, 14439-14448.	7.1	58
123	Adsorption properties of NO and NH3 over MnOx based catalyst supported on Î³-Al2O3. Chemical Engineering Journal, 2016, 302, 570-576.	12.7	57
124	Evolution of coke structures during the pyrolysis of bio-oil at various temperatures and heating rates. Journal of Analytical and Applied Pyrolysis, 2018, 134, 336-342.	5.5	57
125	Syngas production by CO2 reforming of ethanol over Ni/Al2O3 catalyst. Catalysis Communications, 2009, 10, 1633-1637.	3.3	56
126	Understanding correlation of the interaction between nickel and alumina with the catalytic behaviors in steam reforming and methanation. Fuel, 2019, 250, 176-193.	6.4	56

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127	Study on the behavior of heavy metals during thermal treatment of municipal solid waste (MSW) components. Environmental Science and Pollution Research, 2016, 23, 253-265.	5.3	55
128	Catalytic pyrolysis of flame retarded high impact polystyrene over various solid acid catalysts. Fuel Processing Technology, 2017, 155, 32-41.	7.2	55
129	Methanation of CO2 over alumina supported nickel or cobalt catalysts: Effects of the coordination between metal and support on formation of the reaction intermediates. International Journal of Hydrogen Energy, 2020, 45, 531-543.	7.1	55
130	A new method for removal of nitrogen in sewage sludge-derived hydrochar with hydrotalcite as the catalyst. Journal of Hazardous Materials, 2020, 398, 122833.	12.4	55
131	Minireview on Bio-Oil Upgrading via Electrocatalytic Hydrogenation: Connecting Biofuel Production with Renewable Power. Energy & Fuels, 2020, 34, 7915-7928.	5.1	55
132	Mechanism Study of Rice Straw Pyrolysis by Fourier Transform Infrared Technique. Chinese Journal of Chemical Engineering, 2009, 17, 522-529.	3.5	54
133	Fe₂P@mesoporous carbon nanosheets synthesized <i>via</i> an organic template method as a cathode electrocatalyst for Znâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 11321-11330.	10.3	54
134	Vaporization of heavy metals during thermal treatment of model solid waste in a fluidized bed incinerator. Chemosphere, 2012, 86, 1122-1126.	8.2	53
135	Coke formation during the hydrotreatment of bio-oil using NiMo and CoMo catalysts. Fuel Processing Technology, 2017, 155, 261-268.	7.2	53
136	Nitrogen-Doped Carbon Nanotubeâ€“Graphene Frameworks with Encapsulated Fe/Fe₃N Nanoparticles as Catalysts for Oxygen Reduction. ACS Applied Nano Materials, 2019, 2, 3538-3547.	5.0	53
137	Effect of Promotion with Ru Addition on the Activity and SO₂ Resistance of MnO_{<i>x</i>}â€“TiO₂ Adsorbent for Hg⁰ Removal. Industrial & Engineering Chemistry Research, 2015, 54, 2930-2939.	3.7	52
138	Effects of calcination temperature of electrospun fibrous Ni/Al 2 O 3 catalysts on the dry reforming of methane. Fuel Processing Technology, 2017, 155, 246-251.	7.2	52
139	Impacts of temperature on evolution of char structure during pyrolysis of lignin. Science of the Total Environment, 2020, 699, 134381.	8.0	52
140	Titanium nitride nanoparticle embedded membrane for photothermal membrane distillation. Chemosphere, 2020, 256, 127053.	8.2	52
141	Pyrolysis of Maize Stalk on the Characterization of Chars Formed under Different Devolatilization Conditions. Energy & Fuels, 2009, 23, 4605-4611.	5.1	51
142	Investigation of deactivation mechanisms of a solid acid catalyst during esterification of the bio-oils from mallee biomass. Applied Energy, 2013, 111, 94-103.	10.1	51
143	Steam reforming of acetic acid over Ni/Al2O3 catalyst: Correlation of calcination temperature with the interaction of nickel and alumina. Fuel, 2018, 227, 307-324.	6.4	51
144	Kinetic models comparison for steam gasification of coal/biomass blend chars. Bioresource Technology, 2014, 171, 253-259.	9.6	50

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145	Effects of H₂O Gasification Reaction on the Characteristics of Chars under Oxy-Fuel Combustion Conditions with Wet Recycle. Energy & Fuels, 2016, 30, 9071-9079.	5.1	50
146	Co-production of hydrogen and carbon nanotubes from the decomposition/reforming of biomass-derived organics over Ni/Î±-Al2O3 catalyst: Performance of different compounds. Fuel, 2017, 210, 307-314.	6.4	50
147	Catalytic behaviors of alkali metal salt involved in homogeneous volatile and heterogeneous char reforming in steam gasification of cellulose. Energy Conversion and Management, 2018, 158, 147-155.	9.2	50
148	In situ characterization of functional groups of biochar in pyrolysis of cellulose. Science of the Total Environment, 2021, 799, 149354.	8.0	50
149	Investigation of the Effects of Molecular Structure on Oxygenated Hydrocarbon Steam Re-forming. Energy & Fuels, 2009, 23, 926-933.	5.1	49
150	Renewable hydrogen production by a mild-temperature steam reforming of the model compound acetic acid derived from bio-oil. Journal of Molecular Catalysis A, 2012, 355, 123-133.	4.8	49
151	Fe3âˆ’Cu O4 as highly active heterogeneous Fenton-like catalysts toward elemental mercury removal. Chemosphere, 2015, 125, 16-24.	8.2	49
152	Effect of calcination temperature on the activity and structure of MnO /TiO2 adsorbent for Hg0 removal. Fuel Processing Technology, 2015, 135, 25-33.	7.2	49
153	Fundamental and Technical Challenges for a Compatible Design Scheme of Oxyfuel Combustion Technology. Engineering, 2015, 1, 139-149.	6.7	48
154	Effect of acidic, neutral and alkaline conditions on product distribution and biocrude oil chemistry from hydrothermal liquefaction of microalgae. Bioresource Technology, 2018, 270, 129-137.	9.6	48
155	Efficient removal of Hg0 from simulated flue gas by novel magnetic Ag2WO4/BiOI/CoFe2O4 photocatalysts. Chemical Engineering Journal, 2019, 373, 780-791.	12.7	48
156	Steam reforming of acetic acid for hydrogen production over attapulgite and alumina supported Ni catalysts: Impacts of properties of supports on catalytic behaviors. International Journal of Hydrogen Energy, 2019, 44, 5230-5244.	7.1	48
157	Promoting effects of Fe-Ni alloy on co-production of H2 and carbon nanotubes during steam reforming of biomass tar over Ni-Fe/Î±-Al2O3. Fuel, 2020, 276, 118116.	6.4	48
158	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.	5.1	48
159	Enhanced capture of elemental mercury by bamboo-based sorbents. Journal of Hazardous Materials, 2012, 239-240, 160-166.	12.4	47
160	Advances in constructing polymeric carbon-nitride-based nanocomposites and their applications in energy chemistry. Sustainable Energy and Fuels, 2019, 3, 611-655.	4.9	47
161	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.	8.9	47
162	Methanation of CO2: Impacts of modifying nickel catalysts with variable-valence additives on reaction mechanism. Fuel, 2019, 254, 115654.	6.4	46

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163	Catalytic pyrolysis of tire waste: Impacts of biochar catalyst on product evolution. Waste Management, 2020, 116, 9-21.	7.4	46
164	Facile synthesis of ternary Ag/AgBr-Ag 2 CO 3 hybrids with enhanced photocatalytic removal of elemental mercury driven by visible light. Journal of Hazardous Materials, 2016, 314, 78-87.	12.4	45
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