Chun-Zhu Li

List of Publications by Year
in descending order

288 papers	18,568 citations	8181 76 h-index	18647 119 g-index
299 all docs	299 docs citations	299 times ranked	8538 citing authors

#	Article	IF	Citations
1	FT-Raman spectroscopic study of the evolution of char structure during the pyrolysis of a Victorian brown coal. Fuel, 2006, 85, 1700-1707.	6.4	767
2	Some recent advances in the understanding of the pyrolysis and gasification behaviour of Victorian brown coal. Fuel, 2007, 86, 1664-1683.	6.4	433
3	Fates and roles of alkali and alkaline earth metals during the pyrolysis of a Victorian brown coal. Fuel, 2000, 79, 427-438.	6.4	383
4	Fast Pyrolysis of Oil Mallee Woody Biomass:â€‰ Effect of Temperature on the Yield and Quality of Pyrolysis Products. Industrial & Engineering Chemistry Research, 2008, 47, 1846-1854.	3.7	323
5	Effects of particle size on the fast pyrolysis of oil mallee woody biomass. Fuel, 2009, 88, 1810-1817.	6.4	307
6	Mallee wood fast pyrolysis: Effects of alkali and alkaline earth metallic species on the yield and composition of bio-oil. Fuel, 2011, 90, 2915-2922.	6.4	273
7	Volatilisation and catalytic effects of alkali and alkaline earth metallic species during the pyrolysis and gasification of Victorian brown coal. Part I. Volatilisation of Na and Cl from a set of NaCl-loaded samples. Fuel, 2002, 81, 143-149.	6.4	268
8	Importance of volatileâ€“char interactions during the pyrolysis and gasification of low-rank fuels â€“ A review. Fuel, 2013, 112, 609-623.	6.4	258
9	Catalytic reforming of tar during gasification. Part II. Char as a catalyst or as a catalyst support for tar reforming. Fuel, 2011, 90, 2545-2552.	6.4	212
10	Effects of Temperature on the Formation of Lignin-Derived Oligomers during the Fast Pyrolysis of Mallee Woody Biomass. Energy & Fuels, 2008, 22, 2022-2032.	5.1	207
11	Volatilisation and catalytic effects of alkali and alkaline earth metallic species during the pyrolysis and gasification of Victorian brown coal. Part VII. Raman spectroscopic study on the changes in char structure during the catalytic gasification in air. Fuel, 2006, 85, 1509-1517.	6.4	202
12	Effects of biomass char structure on its gasification reactivity. Bioresource Technology, 2010, 101, 7935-7943.	9.6	202
13	Volatilisation and catalytic effects of alkali and alkaline earth metallic species during the pyrolysis and gasification of Victorian brown coal. Part IV. Catalytic effects of NaCl and ion-exchangeable Na in coal on char reactivityâ˜†. Fuel, 2003, 82, 587-593.	6.4	200
14	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
15	Separation, hydrolysis and fermentation of pyrolytic sugars to produce ethanol and lipids. Bioresource Technology, 2010, 101, 9688-9699.	9.6	192
16	Volatilisation and catalytic effects of alkali and alkaline earth metallic species during the pyrolysis and gasification of Victorian brown coal. Part III. The importance of the interactions between volatiles and char at high temperature. Fuel, 2002, 81, 1033-1039.	6.4	187
17	Primary Release of Alkali and Alkaline Earth Metallic Species during the Pyrolysis of Pulverized Biomass. Energy & Fuels, 2005, 19, 2164-2171.	5.1	186
18	Formation of NOx and SOx precursors during the pyrolysis of coal and biomass. Part III. Further discussion on the formation of HCN and NH3 during pyrolysis. Fuel, 2000, 79, 1899-1906.	6.4	185

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19	Volatilisation and catalytic effects of alkali and alkaline earth metallic species during the pyrolysis and gasification of Victorian brown coal. Part II. Effects of chemical form and valence. Fuel, 2002, 81, 151-158.	6.4	185
20	Effects of Heating Rate and Ion-Exchangeable Cations on the Pyrolysis Yields from a Victorian Brown Coal. Energy & Fuels, 1999, 13, 748-755.	5.1	183
21	Effects of gasifying agent on the evolution of char structure during the gasification of Victorian brown coal. Fuel, 2013, 103, 22-28.	6.4	168
22	Catalytic reforming of tar during gasification. Part I. Steam reforming of biomass tar using ilmenite as a catalyst. Fuel, 2011, 90, 1847-1854.	6.4	162
23	An FT-IR spectroscopic study of carbonyl functionalities in bio-oils. Fuel, 2011, 90, 3417-3423.	6.4	159
24	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
25	Effects of volatileâ€“char interactions on the evolution of char structure during the gasification of Victorian brown coal in steam. Fuel, 2011, 90, 1529-1535.	6.4	156
26	Volatilisation of alkali and alkaline earth metallic species during the pyrolysis of biomass: differences between sugar cane bagasse and cane trash. Bioresource Technology, 2005, 96, 1570-1577.	9.6	151
27	Polymerization on heating up of bioâ€oil: A model compound study. AIChE Journal, 2013, 59, 888-900.	3.6	150
28	Volatilisation and catalytic effects of alkali and alkaline earth metallic species during the pyrolysis and gasification of Victorian brown coal. Part VIII. Catalysis and changes in char structure during gasification in steam. Fuel, 2006, 85, 1518-1525.	6.4	148
29	Hydrotreatment of pyrolysis bio-oil: A review. Fuel Processing Technology, 2019, 195, 106140.	7.2	146
30	Pyrolysis of a Victorian brown coal and gasification of nascent char in CO2 atmosphere in a wire-mesh reactor. Fuel, 2004, 83, 833-843.	6.4	141
31	Characterization of tars from variable heating rate pyrolysis of maceral concentrates. Fuel, 1993, 72, 3-11.	6.4	140
32	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
33	Mechanism of decomposition of aromatics over charcoal and necessary condition for maintaining its activity. Fuel, 2008, 87, 2914-2922.	6.4	134
34	Conversion of Fuel-N into HCN and NH3During the Pyrolysis and Gasification in Steam:Â A Comparative Study of Coal and Biomassâ€. Energy & Fuels, 2007, 21, 517-521.	5.1	132
35	Formation of Aromatic Structures during the Pyrolysis of Bio-oil. Energy & Fuels, 2012, 26, 241-247.	5.1	132
36	Removal and Recycling of Inherent Inorganic Nutrient Species in Mallee Biomass and Derived Biochars by Water Leaching. Industrial & Engineering Chemistry Research, 2011, 50, 12143-12151.	3.7	130

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37	UV-Fluorescence Spectroscopy of Coal Pyrolysis Tars. Energy & Fuels, 1994, 8, 1039-1048.	5.1	128
38	Drastic changes in biomass char structure and reactivity upon contact with steam. Fuel, 2008, 87, 1127-1132.	6.4	127
39	Formation of NOx precursors during the pyrolysis of coal and biomass. Part V. Pyrolysis of a sewage sludgeâ˜†. Fuel, 2002, 81, 2203-2208.	6.4	126
40	Catalytic and Noncatalytic Mechanisms in Steam Gasification of Char from the Pyrolysis of Biomass^{â€}. Energy & Fuels, 2010, 24, 108-116.	5.1	126
41	Volatilisation and catalytic effects of alkali and alkaline earth metallic species during the pyrolysis and gasification of Victorian brown coal. Part V. Combined effects of Na concentration and char structure on char reactivity. Fuel, 2004, 83, 23-30.	6.4	124
42	Formation of NOx and SOx precursors during the pyrolysis of coal and biomass. Part I. Effects of reactor configuration on the determined yields of HCN and NH3 during pyrolysis. Fuel, 2000, 79, 1883-1889.	6.4	122
43	Effects of gasification atmosphere and temperature on char structural evolution during the gasification of Collie sub-bituminous coal. Fuel, 2014, 117, 1190-1195.	6.4	115
44	Roles of inherent metallic species in secondary reactions of tar and char during rapid pyrolysis of brown coals in a drop-tube reactor. Fuel, 2002, 81, 1977-1987.	6.4	111
45	An advanced biomass gasification technology with integrated catalytic hot gas cleaning. Part II: Tar reforming using char as a catalyst or as a catalyst support. Fuel, 2013, 112, 646-653.	6.4	108
46	Characterization of the Structural Features of Char from the Pyrolysis of Cane Trash Using Fourier Transformâ^'Raman Spectroscopy. Energy & Fuels, 2007, 21, 1816-1821.	5.1	106
47	Effects of volatileâ€"char interactions on the volatilisation of alkali and alkaline earth metallic species during the pyrolysis of biomass. Fuel, 2008, 87, 1187-1194.	6.4	106
48	Evolution of Char Structure during the Steam Gasification of Biochars Produced from the Pyrolysis of Various Mallee Biomass Components. Industrial & Engineering Chemistry Research, 2009, 48, 10431-10438.	3.7	106
49	In situ diagnostics of Victorian brown coal combustion in O2/N2 and O2/CO2 mixtures in drop-tube furnace. Fuel, 2010, 89, 2703-2712.	6.4	106
50	Evaluation of structural features of chars from pyrolysis of biomass of different particle sizes. Fuel Processing Technology, 2010, 91, 877-881.	7.2	106
51	Inhibition of steam gasification of char by volatiles in a fluidized bed under continuous feeding of a brown coal. Fuel, 2006, 85, 340-349.	6.4	105
52	Production and fuel properties of fast pyrolysis oil/bio-diesel blends. Fuel Processing Technology, 2010, 91, 296-305.	7.2	104
53	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
54	High yields of solid carbonaceous materials from biomass. Green Chemistry, 2019, 21, 1128-1140.	9.0	103

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55	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
56	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
57	Effect of iron on the gasification of Victorian brown coal with steam:enhancement of hydrogen production. Fuel, 2006, 85, 127-133.	6.4	95
58	Changes in Char Structure during the Gasification of a Victorian Brown Coal in Steam and Oxygen at 800 Â°C. Energy & Fuels, 2008, 22, 4034-4038.	5.1	95
59	Upgrading of bio-oil via acid-catalyzed reactions in alcohols â€" A mini review. Fuel Processing Technology, 2017, 155, 2-19.	7.2	95
60	Effect of pyrolysis temperature on the yield and properties of bio-oils obtained from the auger pyrolysis of Douglas Fir wood. Journal of Analytical and Applied Pyrolysis, 2012, 93, 52-62.	5.5	94
61	Formation of NOx and SOx precursors during the pyrolysis of coal and biomass. Part II. Effects of experimental conditions on the yields of NOx and SOx precursors from the pyrolysis of a Victorian brown coal. Fuel, 2000, 79, 1891-1897.	6.4	93
62	Formation of NOx precursors during the pyrolysis of coal and biomass. Part VI. Effects of gas atmosphere on the formation of NH3 and HCNâ˜†. Fuel, 2003, 82, 1159-1166.	6.4	93
63	Simultaneous catalytic esterification of carboxylic acids and acetalisation of aldehydes in a fast pyrolysis bio-oil from mallee biomass. Fuel, 2011, 90, 2530-2537.	6.4	92
64	Formation of coke during the pyrolysis of bio-oil. Fuel, 2013, 108, 439-444.	6.4	91
65	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
66	Vacuum pyrolysis of maceral concentrates in a wire-mesh reactor. Fuel, 1993, 72, 1459-1468.	6.4	90
67	Volatilisation and catalytic effects of alkali and alkaline earth metallic species during the pyrolysis and gasification of Victorian brown coal. Part VI. Further investigation into the effects of volatile-char interactions. Fuel, 2004, 83, 1273-1279.	6.4	90
68	An investigation of the causes of the difference in coal particle ignition temperature between combustion in air and in O2/CO2. Fuel, 2010, 89, 3381-3387.	6.4	90
69	Evolution of biomass char structure during oxidation in O2 as revealed with FT-Raman spectroscopy. Fuel Processing Technology, 2008, 89, 1429-1435.	7.2	89
70	Changes in char reactivity and structure during the gasification of a Victorian brown coal: Comparison between gasification in O2 and CO2. Fuel Processing Technology, 2010, 91, 800-804.	7.2	88
71	Release of HCN, NH3, and HNCO from the Thermal Gas-Phase Cracking of Coal Pyrolysis Tars. Energy & Fuels, 1998, 12, 536-541.	5.1	86
72	Acidâ€Catalyzed Conversion of Xylose in Methanolâ€Rich Medium as Part of Biorefinery. ChemSusChem, 2012, 5, 1427-1434.	6.8	83

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73	One-pot conversion of biomass-derived xylose and furfural into levulinate esters via acid catalysis. Chemical Communications, 2017, 53, 2938-2941.	4.1	82
74	Novel CO₂-tolerant ion-transporting ceramic membranes with an external short circuit for oxygen separation at intermediate temperatures. Energy and Environmental Science, 2012, 5, 5257-5264.	30.8	78
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	Effects of volatileâ€"char interactions on the reactivity of chars from NaCl-loaded Loy Yang brown coal. Fuel, 2005, 84, 1221-1228.	6.4	77
77	Reforming of Volatiles from the Biomass Pyrolysis over Charcoal in a Sequence of Coke Deposition and Steam Gasification of Coke. Energy & Fuels, 2011, 25, 5387-5393.	5.1	77
78	Volatilisation and catalytic effects of alkali and alkaline earth metallic species during the pyrolysis and gasification of Victorian brown coal. Part IX. Effects of volatile-char interactions on charâ€"H2O and charâ€"O2 reactivities. Fuel, 2011, 90, 1655-1661.	6.4	77
79	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
80	Effect of sulfuric acid concentration on the yield and properties of the bio-oils obtained from the auger and fast pyrolysis of Douglas Fir. Fuel, 2013, 104, 536-546.	6.4	76
81	Formation of NOx and SOx precursors during the pyrolysis of coal and biomass. Part IV. Pyrolysis of a set of Australian and Chinese coals. Fuel, 2001, 80, 2131-2138.	6.4	75
82	Mallee Biomass as a Key Bioenergy Source in Western Australia: Importance of Biomass Supply Chain. Energy & Fuels, 2009, 23, 3290-3299.	5.1	75
83	Fate of Aromatic Ring Systems during Thermal Cracking of Tars in a Fluidized-Bed Reactor. Energy & Fuels, 1996, 10, 1083-1090.	5.1	74
84	In-Situ Reforming of Tar from the Rapid Pyrolysis of a Brown Coal over Char^{â€}. Energy & Fuels, 2010, 24, 76-83.	5.1	74
85	Mediating acid-catalyzed conversion of levoglucosan into platform chemicals with various solvents. Green Chemistry, 2012, 14, 3087.	9.0	74
86	Upgrading of bio-oil into advanced biofuels and chemicals. Part I. Transformation of GC-detectable light species during the hydrotreatment of bio-oil using Pd/C catalyst. Fuel, 2013, 111, 709-717.	6.4	73
87	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
88	Acid-catalysed reactions between methanol and the bio-oil from the fast pyrolysis of mallee bark. Fuel, 2012, 97, 512-522.	6.4	70
89	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
90	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

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91	Destruction of tar during volatile-char interactions at low temperature. Fuel Processing Technology, 2018, 171, 215-222.	7.2	68
92	Char-Supported Nano Iron Catalyst for Water-Gas-Shift Reaction. Chemical Engineering Research and Design, 2006, 84, 125-130.	5.6	67
93	Comparison of thermal breakdown in coal pyrolysis and liquefaction. Fuel, 1994, 73, 851-865.	6.4	66
94	Formation of HNCO from the Rapid Pyrolysis of Coals. Energy & Fuels, 1996, 10, 264-265.	5.1	66
95	Release of alkali and alkaline earth metallic species during rapid pyrolysis of a Victorian brown coal at elevated pressuresâ˜†. Fuel, 2003, 82, 1491-1497.	6.4	66
96	Kinetics of steam gasification of nascent char from rapid pyrolysis of a Victorian brown coal. Fuel, 2005, 84, 1612-1612.	6.4	65
97	Production of value-added chemicals from bio-oil via acid catalysis coupled with liquidâ€“liquid extraction. RSC Advances, 2012, 2, 9366.	3.6	65
98	Catalytic steam reforming of cellulose-derived compounds using a char-supported iron catalyst. Fuel Processing Technology, 2013, 116, 234-240.	7.2	65
99	Upgrading of bio-oil into advanced biofuels and chemicals. Part II. Importance of holdup of heavy species during the hydrotreatment of bio-oil in a continuous packed-bed catalytic reactor. Fuel, 2013, 112, 302-310.	6.4	65
100	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
101	Spontaneous Generation of Tar Decomposition Promoter in a Biomass Steam Reformer. Chemical Engineering Research and Design, 2005, 83, 1093-1102.	5.6	64
102	Raman Spectroscopic Investigations into Links between Intrinsic Reactivity and Char Chemical Structure. Energy & Fuels, 2014, 28, 285-290.	5.1	64
103	Biomass-derived sugars and furans: Which polymerize more during their hydrolysis?. Fuel Processing Technology, 2015, 137, 212-219.	7.2	64
104	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
105	An advanced biomass gasification technology with integrated catalytic hot gas cleaning. Part III: Effects of inorganic species in char on the reforming of tars from wood and agricultural wastes. Fuel, 2016, 183, 177-184.	6.4	64
106	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
107	A mechanistic study on kinetic compensation effect during low-temperature oxidation of coal chars. Proceedings of the Combustion Institute, 2011, 33, 1755-1762.	3.9	60
108	Bioslurry as a Fuel. 3. Fuel and Rheological Properties of Bioslurry Prepared from the Bio-oil and Biochar of Mallee Biomass Fast Pyrolysis. Energy & Fuels, 2010, 24, 5669-5676.	5.1	59

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109	Volatilisation of alkali and alkaline earth metallic species during the gasification of a Victorian brown coal in CO2. Fuel Processing Technology, 2005, 86, 1241-1251.	7.2	58
110	Characterization of successive time/temperature-resolved liquefaction extract fractions released from coal in a flowing-solvent reactor. Fuel, 1995, 74, 37-45.	6.4	57
111	Catalytic reforming of tar during gasification. Part IV. Changes in the structure of char in the char-supported iron catalyst during reforming. Fuel, 2013, 106, 858-863.	6.4	57
112	Biochar as a Fuel: 3. Mechanistic Understanding on Biochar Thermal Annealing at Mild Temperatures and Its Effect on Biochar Reactivity. Energy & Fuels, 2011, 25, 406-414.	5.1	56
113	Effect of Cellulose Crystallinity on Solid/Liquid Phase Reactions Responsible for the Formation of Carbonaceous Residues during Pyrolysis. Industrial & Engineering Chemistry Research, 2014, 53, 2940-2955.	3.7	56
114	A preliminary Raman spectroscopic perspective for the roles of catalysts during char gasification. Fuel, 2014, 121, 165-172.	6.4	56
115	Mechanisms and kinetic modelling of steam gasification of brown coal in the presence of volatileâ€"char interactions. Fuel, 2013, 103, 7-13.	6.4	55
116	Coke formation during the hydrotreatment of bio-oil using NiMo and CoMo catalysts. Fuel Processing Technology, 2017, 155, 261-268.	7.2	53
117	Formation of NO precursors during the pyrolysis of coal and biomass. Part VII. Pyrolysis and gasification of cane trash with steam. Fuel, 2005, 84, 371-376.	6.4	52
118	An advanced biomass gasification technology with integrated catalytic hot gas cleaning. Fuel, 2013, 108, 409-416.	6.4	52
119	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
120	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
121	Effects of temperature and molecular mass on the nitrogen functionality of tars produced under high heating rate conditions. Fuel, 1998, 77, 157-164.	6.4	50
122	Combined effects of pressure and ion-exchangeable metallic species on pyrolysis of Victorian lignite. Fuel, 2003, 82, 343-350.	6.4	50
123	Synthesis and characterization of doped La9ASi6O26.5 (AÂ=ÂCa, Sr, Ba) oxyapatite electrolyte by a water-based gel-casting route. International Journal of Hydrogen Energy, 2011, 36, 6862-6874.	7.1	49
124	Effect of sulfuric acid on the pyrolysis of Douglas fir and hybrid poplar wood: Py-GC/MS and TG studies. Journal of Analytical and Applied Pyrolysis, 2013, 104, 117-130.	5.5	49
125	Fluorescence Spectroscopic Analysis of Tars from the Pyrolysis of a Victorian Brown Coal in a Wire-Mesh Reactor. Energy & Fuels, 2000, 14, 476-482.	5.1	48
126	High-Speed Camera Observation of Coal Combustion in Air and O₂/CO₂Mixtures and Measurement of Burning Coal Particle Velocity^{â€}. Energy & Fuels, 2010, 24, 29-37.	5.1	48

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127	Special Issueâ€"Gasification: a Route to Clean Energy. Chemical Engineering Research and Design, 2006, 84, 407-408.	5.6	44
128	Oxidative pyrolysis of mallee wood biomass, cellulose and lignin. Fuel, 2018, 217, 382-388.	6.4	44
129	In-situ observation of the combustion of air-dried and wet Victorian brown coal. Proceedings of the Combustion Institute, 2011, 33, 1739-1746.	3.9	43
130	Hydrolysis and glycosidation of sugars during the esterification of fast pyrolysis bio-oil. Fuel, 2012, 95, 146-151.	6.4	43
131	Polymerization and cracking during the hydrotreatment of bio-oil and heavy fractions obtained by fractional condensation using Ru/C and NiMo/Al2O3 catalyst. Journal of Analytical and Applied Pyrolysis, 2016, 118, 136-143.	5.5	43
132	Characterization of coal by matrix-assisted laser desorption mass spectrometry. II. Pyrolysis tars and liquefaction extracts from the argonne coal samples. Rapid Communications in Mass Spectrometry, 1994, 8, 815-822.	1.5	42
133	Behavior of Inherent Metallic Species as a Crucial Factor for Kinetics of Steam Gasification of Char from Coal Pyrolysisâ€. Energy & Fuels, 2007, 21, 387-394.	5.1	42
134	Inhibiting and other effects of hydrogen during gasification: Further insights from FT-Raman spectroscopy. Fuel, 2014, 116, 1-6.	6.4	42
135	Characterization of coal by matrix-assisted laser desorption ionization mass spectrometry. I. The argonne coal samples. Rapid Communications in Mass Spectrometry, 1994, 8, 808-814.	1.5	41
136	Effects of Pretreatment in Steam on the Pyrolysis Behavior of Loy Yang Brown Coal. Energy & Fuels, 2006, 20, 281-286.	5.1	41
137	Evolution of structure and activity of char-supported iron catalysts prepared for steam reforming of bio-oil. Fuel Processing Technology, 2017, 158, 180-190.	7.2	41
138	Changes in char structure during the low-temperature pyrolysis in N2 and subsequent gasification in air of Loy Yang brown coal char. Fuel, 2018, 212, 187-192.	6.4	41
139	Molecular masses up to 270 000 u in coal and coal-derived products by matrix assisted laser desorption ionization mass spectrometry (MALDI-m.s.). Fuel, 1994, 73, 1606-1616.	6.4	40
140	Formation of NO precursors during the pyrolysis of coal and biomass. Part VIII. Effects of pressure on the formation of NH and HCN during the pyrolysis and gasification of Victorian brown coal in steam. Fuel, 2005, 84, 2102-2108.	6.4	40
141	Effect of sulfuric acid addition on the yield and composition of lignin derived oligomers obtained by the auger and fast pyrolysis of Douglas-fir wood. Fuel, 2013, 103, 512-523.	6.4	40
142	Microstructure control of oxygen permeation membranes with templated microchannels. Journal of Materials Chemistry A, 2014, 2, 410-417.	10.3	40
143	Effects of gasification temperature and atmosphere on char structural evolution and AAEM retention during the gasification of Loy Yang brown coal. Fuel Processing Technology, 2017, 159, 48-54.	7.2	40
144	Eggshell membrane-templated synthesis of highly crystalline perovskite ceramics for solid oxidefuelcells. Journal of Materials Chemistry, 2011, 21, 1028-1032.	6.7	39

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145	Interparticle Desorption and Re-adsorption of Alkali and Alkaline Earth Metallic Species within a Bed of Pyrolyzing Char from Pulverized Woody Biomass. Energy & Fuels, 2006, 20, 1294-1297.	5.1	38
146	Dual bed pyrolysis gasification of coal: Process analysis and pilot test. Fuel, 2013, 112, 624-634.	6.4	38
147	Importance of the aromatic structures in volatiles to the in-situ destruction of nascent tar during the volatileâ€“char interactions. Fuel Processing Technology, 2015, 132, 31-38.	7.2	38
148	Release of volatiles from the pyrolysis of a Victorian lignite at elevated pressures. Fuel, 2002, 81, 1171-1178.	6.4	37
149	Evidence of poly-condensed aromatic rings in a Victorian brown coal. Fuel, 2004, 83, 97-107.	6.4	37
150	A microchanneled ceramic membrane for highly efficient oxygen separation. Journal of Materials Chemistry A, 2013, 1, 9641.	10.3	37
151	Evolution of aromatic structures during the reforming of bio-oil: Importance of the interactions among bio-oil components. Fuel, 2013, 111, 805-812.	6.4	37
152	Importance of Biomass Particle Size in Structural Evolution and Reactivity of Char in Steam Gasification. Industrial & Engineering Chemistry Research, 2009, 48, 9858-9863.	3.7	36
153	Influences of minerals transformation on the reactivity of high temperature char gasification. Fuel Processing Technology, 2010, 91, 404-409.	7.2	36
154	Changes in nascent char structure during the gasification of low-rank coals in CO2. Fuel, 2015, 158, 711-718.	6.4	36
155	Importance of hydrogen and bio-oil inlet temperature during the hydrotreatment of bio-oil. Fuel Processing Technology, 2016, 150, 132-140.	7.2	36
156	NH3Formation and Destruction during the Gasification of Coal in Oxygen and Steam. Environmental Science & Technology, 2007, 41, 5505-5509.	10.0	35
157	Hierarchically ordered porous Ni-based cathode-supported solid oxide electrolysis cells for stable CO₂ electrolysis without safe gas. Journal of Materials Chemistry A, 2017, 5, 24098-24102.	10.3	35
158	Formation of nascent char structure during the fast pyrolysis of mallee wood and low-rank coals. Fuel, 2015, 150, 486-492.	6.4	34
159	Effects of water and alcohols on the polymerization of furan during its acid-catalyzed conversion into benzofuran. RSC Advances, 2016, 6, 40489-40501.	3.6	34
160	Improved gas diffusion within microchanneled cathode supports of SOECs for steam electrolysis. International Journal of Hydrogen Energy, 2016, 41, 19829-19835.	7.1	34
161	Different reaction behaviours of the light and heavy components of bio-oil during the hydrotreatment in a continuous pack-bed reactor. Fuel Processing Technology, 2016, 146, 76-84.	7.2	34
162	Pyrolysis characteristics of macerals separated from a single coal and their artificial mixture. Fuel, 1991, 70, 474-479.	6.4	33

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