

Chun-Zhu Li

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#	Paper	IF	Citations
287	FT-Raman spectroscopic study of the evolution of char structure during the pyrolysis of a Victorian brown coal. <i>Fuel</i> , 2006 , 85, 1700-1707	7.1	592
286	Some recent advances in the understanding of the pyrolysis and gasification behaviour of Victorian brown coal. <i>Fuel</i> , 2007 , 86, 1664-1683	7.1	395
285	Fates and roles of alkali and alkaline earth metals during the pyrolysis of a Victorian brown coal. <i>Fuel</i> , 2000 , 79, 427-438	7.1	334
284	Fast Pyrolysis of Oil Mallee Woody Biomass: Effect of Temperature on the Yield and Quality of Pyrolysis Products. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 1846-1854	3.9	278
283	Effects of particle size on the fast pyrolysis of oil mallee woody biomass. <i>Fuel</i> , 2009 , 88, 1810-1817	7.1	254
282	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. <i>Fuel</i> , 2002 , 81, 143-149	7.1	244
281	Mallee wood fast pyrolysis: Effects of alkali and alkaline earth metallic species on the yield and composition of bio-oil. <i>Fuel</i> , 2011 , 90, 2915-2922	7.1	242
280	Importance of volatile-Char interactions during the pyrolysis and gasification of low-rank fuels: A review. <i>Fuel</i> , 2013 , 112, 609-623	7.1	212
279	Effects of Temperature on the Formation of Lignin-Derived Oligomers during the Fast Pyrolysis of Mallee Woody Biomass. <i>Energy & Fuels</i> , 2008 , 22, 2022-2032	4.1	190
278	Levulinic esters from the acid-catalysed reactions of sugars and alcohols as part of a bio-refinery. <i>Green Chemistry</i> , 2011 , 13, 1676	10	186
277	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 reactivity?. <i>Fuel</i> , 2003 , 82, 587-593	7.1	185
276	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. <i>Fuel</i> , 2006 , 85, 1509-1517	7.1	182
275	Catalytic reforming of tar during gasification. Part II. Char as a catalyst or as a catalyst support for tar reforming. <i>Fuel</i> , 2011 , 90, 2545-2552	7.1	178
274	Separation, hydrolysis and fermentation of pyrolytic sugars to produce ethanol and lipids. <i>Bioresource Technology</i> , 2010 , 101, 9688-99	11	169
273	Effects of biomass char structure on its gasification reactivity. <i>Bioresource Technology</i> , 2010 , 101, 7935-431	11	167
272	Effects of Heating Rate and Ion-Exchangeable Cations on the Pyrolysis Yields from a Victorian Brown Coal. <i>Energy & Fuels</i> , 1999 , 13, 748-755	4.1	167
271	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. <i>Fuel</i> , 2002 , 81, 1033-1039	7.1	165

270	Primary Release of Alkali and Alkaline Earth Metallic Species during the Pyrolysis of Pulverized Biomass. <i>Energy & Fuels</i> , 2005 , 19, 2164-2171	4.1	164
269	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. <i>Fuel</i> , 2002 , 81, 151-158	7.1	159
268	Formation of NO _x and SO _x precursors during the pyrolysis of coal and biomass. Part III. Further discussion on the formation of HCN and NH ₃ during pyrolysis. <i>Fuel</i> , 2000 , 79, 1899-1906	7.1	152
267	Catalytic reforming of tar during gasification. Part I. Steam reforming of biomass tar using ilmenite as a catalyst. <i>Fuel</i> , 2011 , 90, 1847-1854	7.1	143
266	Effects of gasifying agent on the evolution of char structure during the gasification of Victorian brown coal. <i>Fuel</i> , 2013 , 103, 22-28	7.1	137
265	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. <i>Fuel</i> , 2006 , 85, 1518-1525	7.1	137
264	Volatilisation of alkali and alkaline earth metallic species during the pyrolysis of biomass: differences between sugar cane bagasse and cane trash. <i>Bioresource Technology</i> , 2005 , 96, 1570-7	11	136
263	Characterization of tars from variable heating rate pyrolysis of maceral concentrates. <i>Fuel</i> , 1993 , 72, 3-11	7.1	132
262	Polymerization on heating up of bio-oil: A model compound study. <i>AIChE Journal</i> , 2013 , 59, 888-900	3.6	130
261	Acid-Catalyzed Conversion of Xylose in 20 Solvents: Insight into Interactions of the Solvents with Xylose, Furfural, and the Acid Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2562-2575	8.3	129
260	Pyrolysis of a Victorian brown coal and gasification of nascent char in CO ₂ atmosphere in a wire-mesh reactor. <i>Fuel</i> , 2004 , 83, 833-843	7.1	128
259	UV-Fluorescence Spectroscopy of Coal Pyrolysis Tars. <i>Energy & Fuels</i> , 1994 , 8, 1039-1048	4.1	127
258	Effects of volatile- π interactions on the evolution of char structure during the gasification of Victorian brown coal in steam. <i>Fuel</i> , 2011 , 90, 1529-1535	7.1	124
257	Reaction pathways of glucose during esterification: effects of reaction parameters on the formation of humin type polymers. <i>Bioresource Technology</i> , 2011 , 102, 10104-13	11	120
256	Mechanism of decomposition of aromatics over charcoal and necessary condition for maintaining its activity. <i>Fuel</i> , 2008 , 87, 2914-2922	7.1	118
255	Formation of Aromatic Structures during the Pyrolysis of Bio-oil. <i>Energy & Fuels</i> , 2012 , 26, 241-247	4.1	115
254	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. <i>Fuel</i> , 2004 , 83, 23-30	7.1	115
253	Removal and Recycling of Inherent Inorganic Nutrient Species in Mallee Biomass and Derived Biochars by Water Leaching. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12143-12151	3.9	113

- 252 Drastic changes in biomass char structure and reactivity upon contact with steam. *Fuel*, **2008**, 87, 1127-1132 113
- 251 An FT-IR spectroscopic study of carbonyl functionalities in bio-oils. *Fuel*, **2011**, 90, 3417-3423 7.1 108
- 250 Catalytic and Noncatalytic Mechanisms in Steam Gasification of Char from the Pyrolysis of Biomass. *Energy & Fuels*, **2010**, 24, 108-116 4.1 106
- 249 Formation of NO_x and SO_x 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 7.1 106
- 248 Conversion of Fuel-N into HCN and NH₃ During the Pyrolysis and Gasification in Steam: A Comparative Study of Coal and Biomass. *Energy & Fuels*, **2007**, 21, 517-521 4.1 105
- 247 Formation of NO_x precursors during the pyrolysis of coal and biomass. Part V. Pyrolysis of a sewage sludge. *Fuel*, **2002**, 81, 2203-2208 7.1 105
- 246 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 7.1 103
- 245 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 7.1 103
- 244 Inhibition of steam gasification of char by volatiles in a fluidized bed under continuous feeding of a brown coal. *Fuel*, **2006**, 85, 340-349 7.1 99
- 243 Effects of gasification atmosphere and temperature on char structural evolution during the gasification of Collie sub-bituminous coal. *Fuel*, **2014**, 117, 1190-1195 7.1 97
- 242 In situ diagnostics of Victorian brown coal combustion in O₂/N₂ and O₂/CO₂ mixtures in drop-tube furnace. *Fuel*, **2010**, 89, 2703-2712 7.1 95
- 241 Hydrotreatment of pyrolysis bio-oil: A review. *Fuel Processing Technology*, **2019**, 195, 106140 7.2 93
- 240 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 7.1 93
- 239 Evaluation of structural features of chars from pyrolysis of biomass of different particle sizes. *Fuel Processing Technology*, **2010**, 91, 877-881 7.2 93
- 238 One-Pot Synthesis of Levulinic Acid/Ester from C5 Carbohydrates in a Methanol Medium. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 1593-1599 8.3 92
- 237 Production and fuel properties of fast pyrolysis oil/bio-diesel blends. *Fuel Processing Technology*, **2010**, 91, 296-305 7.2 92
- 236 Effects of volatile-char interactions on the volatilisation of alkali and alkaline earth metallic species during the pyrolysis of biomass. *Fuel*, **2008**, 87, 1187-1194 7.1 91
- 235 Upgrading biomass-derived furans via acid-catalysis/hydrogenation: the remarkable difference between water and methanol as the solvent. *Green Chemistry*, **2015**, 17, 219-224 10 86

234	Effect of pyrolysis temperature on the yield and properties of bio-oils obtained from the auger pyrolysis of Douglas Fir wood. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012 , 93, 52-62	6	86
233	Effect of iron on the gasification of Victorian brown coal with steam:enhancement of hydrogen production. <i>Fuel</i> , 2006 , 85, 127-133	7.1	86
232	Changes in Char Structure during the Gasification of a Victorian Brown Coal in Steam and Oxygen at 800 °C. <i>Energy & Fuels</i> , 2008 , 22, 4034-4038	4.1	85
231	Characterization of the Structural Features of Char from the Pyrolysis of Cane Trash Using Fourier Transform Raman Spectroscopy. <i>Energy & Fuels</i> , 2007 , 21, 1816-1821	4.1	85
230	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. <i>Fuel</i> , 2000 , 79, 1891-1897	7.1	84
229	Vacuum pyrolysis of maceral concentrates in a wire-mesh reactor. <i>Fuel</i> , 1993 , 72, 1459-1468	7.1	84
228	Simultaneous catalytic esterification of carboxylic acids and acetalisation of aldehydes in a fast pyrolysis bio-oil from mallee biomass. <i>Fuel</i> , 2011 , 90, 2530-2537	7.1	83
227	Changes in char reactivity and structure during the gasification of a Victorian brown coal: Comparison between gasification in O2 and CO2. <i>Fuel Processing Technology</i> , 2010 , 91, 800-804	7.2	83
226	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. <i>Fuel</i> , 2004 , 83, 1273-1279	7.1	81
225	An investigation of the causes of the difference in coal particle ignition temperature between combustion in air and in O2/CO2. <i>Fuel</i> , 2010 , 89, 3381-3387	7.1	80
224	Formation of NOx precursors during the pyrolysis of coal and biomass. Part VI. Effects of gas atmosphere on the formation of NH3 and HCN?. <i>Fuel</i> , 2003 , 82, 1159-1166	7.1	79
223	Acid-catalyzed conversion of xylose in methanol-rich medium as part of biorefinery. <i>ChemSusChem</i> , 2012 , 5, 1427-34	8.3	77
222	Release of HCN, NH3, and HNCO from the Thermal Gas-Phase Cracking of Coal Pyrolysis Tars. <i>Energy & Fuels</i> , 1998 , 12, 536-541	4.1	77
221	Evolution of biomass char structure during oxidation in O2 as revealed with FT-Raman spectroscopy. <i>Fuel Processing Technology</i> , 2008 , 89, 1429-1435	7.2	76
220	Effects of volatile-char interactions on in situ destruction of nascent tar during the pyrolysis and gasification of biomass. Part I. Roles of nascent char. <i>Fuel</i> , 2014 , 122, 60-66	7.1	75
219	Upgrading of bio-oil via acid-catalyzed reactions in alcohols – A mini review. <i>Fuel Processing Technology</i> , 2017 , 155, 2-19	7.2	74
218	Novel CO2-tolerant ion-transporting ceramic membranes with an external short circuit for oxygen separation at intermediate temperatures. <i>Energy and Environmental Science</i> , 2012 , 5, 5257-5264	35.4	73
217	Formation of coke during the pyrolysis of bio-oil. <i>Fuel</i> , 2013 , 108, 439-444	7.1	73

216	High yields of solid carbonaceous materials from biomass. <i>Green Chemistry</i> , 2019 , 21, 1128-1140	10	70
215	Effects of volatile- π char interactions on the reactivity of chars from NaCl-loaded Loy Yang brown coal. <i>Fuel</i> , 2005 , 84, 1221-1228	7.1	70
214	One-pot conversion of biomass-derived xylose and furfural into levulinate esters via acid catalysis. <i>Chemical Communications</i> , 2017 , 53, 2938-2941	5.8	69
213	Mediating acid-catalyzed conversion of levoglucosan into platform chemicals with various solvents. <i>Green Chemistry</i> , 2012 , 14, 3087	10	68
212	Reforming of Volatiles from the Biomass Pyrolysis over Charcoal in a Sequence of Coke Deposition and Steam Gasification of Coke. <i>Energy & Fuels</i> , 2011 , 25, 5387-5393	4.1	68
211	In-Situ Reforming of Tar from the Rapid Pyrolysis of a Brown Coal over Char. <i>Energy & Fuels</i> , 2010 , 24, 76-83	4.1	67
210	Mallee Biomass as a Key Bioenergy Source in Western Australia: Importance of Biomass Supply Chain. <i>Energy & Fuels</i> , 2009 , 23, 3290-3299	4.1	67
209	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 char-H ₂ O and char-O ₂ reactivities. <i>Fuel</i> , 2011 , 90, 1655-1661	7.1	67
208	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. <i>Fuel</i> , 2013 , 111, 709-717	7.1	66
207	Fate of Aromatic Ring Systems during Thermal Cracking of Tars in a Fluidized-Bed Reactor. <i>Energy & Fuels</i> , 1996 , 10, 1083-1090	4.1	66
206	Effect of sulfuric acid concentration on the yield and properties of the bio-oils obtained from the auger and fast pyrolysis of Douglas Fir. <i>Fuel</i> , 2013 , 104, 536-546	7.1	65
205	Formation of NO _x and SO _x precursors during the pyrolysis of coal and biomass. Part IV. Pyrolysis of a set of Australian and Chinese coals. <i>Fuel</i> , 2001 , 80, 2131-2138	7.1	64
204	Effects of temperature on the hydrotreatment behaviour of pyrolysis bio-oil and coke formation in a continuous hydrotreatment reactor. <i>Fuel Processing Technology</i> , 2016 , 148, 175-183	7.2	63
203	Effects of temperature on the yields and properties of bio-oil from the fast pyrolysis of mallee bark. <i>Fuel</i> , 2013 , 108, 400-408	7.1	62
202	Comparison of thermal breakdown in coal pyrolysis and liquefaction. <i>Fuel</i> , 1994 , 73, 851-865	7.1	62
201	Acid-catalysed reactions between methanol and the bio-oil from the fast pyrolysis of mallee bark. <i>Fuel</i> , 2012 , 97, 512-522	7.1	60
200	Role of O-containing functional groups in biochar during the catalytic steam reforming of tar using the biochar as a catalyst. <i>Fuel</i> , 2019 , 253, 441-448	7.1	58
199	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. <i>Fuel</i> , 2014 , 116, 642-649	7.1	58

198	Effects of volatile- π char interactions on in-situ destruction of nascent tar during the pyrolysis and gasification of biomass. Part II. Roles of steam. <i>Fuel</i> , 2015 , 143, 555-562	7.1	58
197	Char-Supported Nano Iron Catalyst for Water-Gas-Shift Reaction. <i>Chemical Engineering Research and Design</i> , 2006 , 84, 125-130	5.5	58
196	Acid-catalyzed conversion of C6 sugar monomer/oligomers to levulinic acid in water, tetrahydrofuran and toluene: Importance of the solvent polarity. <i>Fuel</i> , 2015 , 141, 56-63	7.1	57
195	Kinetics of steam gasification of nascent char from rapid pyrolysis of a Victorian brown coal. <i>Fuel</i> , 2005 , 84, 1612-1612	7.1	57
194	Formation of HNCO from the Rapid Pyrolysis of Coals. <i>Energy & Fuels</i> , 1996 , 10, 264-265	4.1	57
193	Release of alkali and alkaline earth metallic species during rapid pyrolysis of a Victorian brown coal at elevated pressures?. <i>Fuel</i> , 2003 , 82, 1491-1497	7.1	56
192	Steam reforming of guaiacol over Ni/Al ₂ O ₃ and Ni/SBA-15: Impacts of support on catalytic behaviors of nickel and properties of coke. <i>Fuel Processing Technology</i> , 2019 , 191, 138-151	7.2	55
191	Volatilisation of alkali and alkaline earth metallic species during the gasification of a Victorian brown coal in CO ₂ . <i>Fuel Processing Technology</i> , 2005 , 86, 1241-1251	7.2	55
190	Catalytic steam reforming of cellulose-derived compounds using a char-supported iron catalyst. <i>Fuel Processing Technology</i> , 2013 , 116, 234-240	7.2	54
189	Catalytic reforming of tar during gasification. Part IV. Changes in the structure of char in the char-supported iron catalyst during reforming. <i>Fuel</i> , 2013 , 106, 858-863	7.1	54
188	Effects of CO ₂ and heating rate on the characteristics of chars prepared in CO ₂ and N ₂ atmospheres. <i>Fuel</i> , 2015 , 142, 243-249	7.1	53
187	Mechanisms and kinetic modelling of steam gasification of brown coal in the presence of volatile- π char interactions. <i>Fuel</i> , 2013 , 103, 7-13	7.1	53
186	Acid-catalyzed conversion of mono- and poly-sugars into platform chemicals: effects of molecular structure of sugar substrate. <i>Bioresource Technology</i> , 2013 , 133, 469-74	11	52
185	A mechanistic study on kinetic compensation effect during low-temperature oxidation of coal chars. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 1755-1762	5.9	52
184	Raman Spectroscopic Investigations into Links between Intrinsic Reactivity and Char Chemical Structure. <i>Energy & Fuels</i> , 2014 , 28, 285-290	4.1	51
183	Bioslurry as a Fuel. 3. Fuel and Rheological Properties of Bioslurry Prepared from the Bio-oil and Biochar of Mallee Biomass Fast Pyrolysis. <i>Energy & Fuels</i> , 2010 , 24, 5669-5676	4.1	51
182	Biochar as a Fuel: 3. Mechanistic Understanding on Biochar Thermal Annealing at Mild Temperatures and Its Effect on Biochar Reactivity. <i>Energy & Fuels</i> , 2011 , 25, 406-414	4.1	51
181	Spontaneous Generation of Tar Decomposition Promoter in a Biomass Steam Reformer. <i>Chemical Engineering Research and Design</i> , 2005 , 83, 1093-1102	5.5	51

180	Characterization of successive time/temperature-resolved liquefaction extract fractions released from coal in a flowing-solvent reactor. <i>Fuel</i> , 1995 , 74, 37-45	7.1	51
179	Effect of Cellulose Crystallinity on Solid/Liquid Phase Reactions Responsible for the Formation of Carbonaceous Residues during Pyrolysis. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 2940-2955	3.9	49
178	Investigation of deactivation mechanisms of a solid acid catalyst during esterification of the bio-oils from mallee biomass. <i>Applied Energy</i> , 2013 , 111, 94-103	10.7	49
177	Destruction of tar during volatile-char interactions at low temperature. <i>Fuel Processing Technology</i> , 2018 , 171, 215-222	7.2	49
176	A preliminary Raman spectroscopic perspective for the roles of catalysts during char gasification. <i>Fuel</i> , 2014 , 121, 165-172	7.1	48
175	Biomass-derived sugars and furans: Which polymerize more during their hydrolysis?. <i>Fuel Processing Technology</i> , 2015 , 137, 212-219	7.2	48
174	An advanced biomass gasification technology with integrated catalytic hot gas cleaning: Part I. Technology and initial experimental results in a lab-scale facility. <i>Fuel</i> , 2013 , 108, 409-416	7.1	48
173	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. <i>Fuel</i> , 2016 , 183, 177-184	7.1	47
172	Production of value-added chemicals from bio-oil via acid catalysis coupled with liquid-liquid extraction. <i>RSC Advances</i> , 2012 , 2, 9366	3.7	47
171	Combined effects of pressure and ion-exchangeable metallic species on pyrolysis of Victorian lignite. <i>Fuel</i> , 2003 , 82, 343-350	7.1	47
170	Formation of NO precursors during the pyrolysis of coal and biomass. Part VII. Pyrolysis and gasification of cane trash with steam. <i>Fuel</i> , 2005 , 84, 371-376	7.1	47
169	Effects of temperature and molecular mass on the nitrogen functionality of tars produced under high heating rate conditions. <i>Fuel</i> , 1998 , 77, 157-164	7.1	46
168	Effect of sulfuric acid on the pyrolysis of Douglas fir and hybrid poplar wood: Py-GC/MS and TG studies. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 104, 117-130	6	45
167	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. <i>Fuel</i> , 2013 , 112, 302-310	7.1	44
166	High-Speed Camera Observation of Coal Combustion in Air and O ₂ /CO ₂ Mixtures and Measurement of Burning Coal Particle Velocity. <i>Energy & Fuels</i> , 2010 , 24, 29-37	4.1	44
165	Fluorescence Spectroscopic Analysis of Tars from the Pyrolysis of a Victorian Brown Coal in a Wire-Mesh Reactor. <i>Energy & Fuels</i> , 2000 , 14, 476-482	4.1	44
164	Special Issue Gasification: a Route to Clean Energy. <i>Chemical Engineering Research and Design</i> , 2006 , 84, 407-408	5.5	43
163	Characterization of coal by matrix-assisted laser desorption mass spectrometry. II. Pyrolysis tars and liquefaction extracts from the argonne coal samples. <i>Rapid Communications in Mass Spectrometry</i> , 1994 , 8, 815-822	2.2	42

162	Hydrolysis and glycosidation of sugars during the esterification of fast pyrolysis bio-oil. <i>Fuel</i> , 2012 , 95, 146-151	7.1	41
161	Synthesis and characterization of doped La ₉ AlSi ₆ O _{26.5} (Al ³⁺ /Ca, Sr, Ba) oxyapatite electrolyte by a water-based gel-casting route. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 6862-6874	6.7	41
160	In-situ observation of the combustion of air-dried and wet Victorian brown coal. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 1739-1746	5.9	40
159	Characterization of coal by matrix-assisted laser desorption ionization mass spectrometry. I. The argonne coal samples. <i>Rapid Communications in Mass Spectrometry</i> , 1994 , 8, 808-814	2.2	39
158	Effects of calcination temperature of electrospun fibrous Ni/Al ₂ O ₃ catalysts on the dry reforming of methane. <i>Fuel Processing Technology</i> , 2017 , 155, 246-251	7.2	38
157	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. <i>Fuel</i> , 2013 , 103, 512-523	7.1	38
156	Behavior of Inherent Metallic Species as a Crucial Factor for Kinetics of Steam Gasification of Char from Coal Pyrolysis. <i>Energy & Fuels</i> , 2007 , 21, 387-394	4.1	38
155	Molecular masses up to 270 000 u in coal and coal-derived products by matrix assisted laser desorption ionization mass spectrometry (MALDI-m.s.). <i>Fuel</i> , 1994 , 73, 1606-1616	7.1	38
154	Microstructure control of oxygen permeation membranes with templated microchannels. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 410-417	13	36
153	Coke formation during the hydrotreatment of bio-oil using NiMo and CoMo catalysts. <i>Fuel Processing Technology</i> , 2017 , 155, 261-268	7.2	36
152	Eggshell membrane-templated synthesis of highly crystalline perovskite ceramics for solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1028-1032		36
151	Evolution of structure and activity of char-supported iron catalysts prepared for steam reforming of bio-oil. <i>Fuel Processing Technology</i> , 2017 , 158, 180-190	7.2	35
150	Polymerization and cracking during the hydrotreatment of bio-oil and heavy fractions obtained by fractional condensation using Ru/C and NiMo/Al ₂ O ₃ catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016 , 118, 136-143	6	35
149	Evolution of aromatic structures during the reforming of bio-oil: Importance of the interactions among bio-oil components. <i>Fuel</i> , 2013 , 111, 805-812	7.1	34
148	Inhibiting and other effects of hydrogen during gasification: Further insights from FT-Raman spectroscopy. <i>Fuel</i> , 2014 , 116, 1-6	7.1	34
147	Interparticle Desorption and Re-adsorption of Alkali and Alkaline Earth Metallic Species within a Bed of Pyrolyzing Char from Pulverized Woody Biomass. <i>Energy & Fuels</i> , 2006 , 20, 1294-1297	4.1	34
146	Effects of Pretreatment in Steam on the Pyrolysis Behavior of Loy Yang Brown Coal. <i>Energy & Fuels</i> , 2006 , 20, 281-286	4.1	33
145	Evidence of poly-condensed aromatic rings in a Victorian brown coal. <i>Fuel</i> , 2004 , 83, 97-107	7.1	32

144	Formation of NO _x precursors during the pyrolysis of coal and biomass. Part VIII. Effects of pressure on the formation of NH ₃ and HCN during the pyrolysis and gasification of Victorian brown coal in steam. <i>Fuel</i> , 2005 , 84, 2102-2108	7.1	32
143	Effect of reactor configuration on the yields and structures of pine-wood derived pyrolysis liquids: A comparison between ablative and wire-mesh pyrolysis. <i>Biomass and Bioenergy</i> , 1994 , 7, 155-167	5.3	32
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141	Dual bed pyrolysis gasification of coal: Process analysis and pilot test. <i>Fuel</i> , 2013 , 112, 624-634	7.1	31
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