Chun-Zhu Li

List of Publications by Year in Descending Order

287 papers	15,775 citations	71 h-index	109 g-index
299 ext. papers	17,177 ext. citations	6.3 avg, IF	6.84 L-index

#	Paper	IF	Citations
287	An integrated two-step process of reforming and adsorption using biochar for enhanced tar removal in syngas cleaning. *Fuel*, **2022**, 307, 121935	7.1	2
286	Reactions and Distribution of Levoglucosan during the High-Pressure Reactive Distillation of Bio-Oil. *Industrial & Engineering Chemistry Research*, **2021**, 60, 6298-6305	3.9	2
285	A SAXS study of the pore structure evolution in biochar during gasification in H_2O, CO_2 and H_2O/CO_2. *Fuel*, **2021**, 292, 120384	7.1	9
284	Insights into the mechanism of tar reforming using biochar as a catalyst. *Fuel*, **2021**, 296, 120672	7.1	6
283	Cross-polymerization between the model furans and phenolics in bio-oil with acid or alkaline catalysts. *Green Energy and Environment*, **2021**, 6, 138-149	5.7	7
282	Kinetic features of ethanol steam reforming and decomposition using a biochar-supported Ni catalyst. *Fuel Processing Technology*, **2021**, 212, 106622	7.2	11
281	High-pressure reactive distillation of bio-oil for reduced polymerisation. *Fuel Processing Technology*, **2021**, 211, 106590	7.2	5
280	In situ SAXS studies of the pore development in biochar during gasification. *Carbon*, **2021**, 172, 454-462	10.4	4
279	Enrichment of aromatic compounds during the high-pressure reactive distillation of bio-oil. *Fuel Processing Technology*, **2021**, 220, 106897	7.2	2
278	Conversion of carbonyl compounds in bio-oil during the acid/base-catalysed reactive distillation at high pressure. *Fuel*, **2021**, 304, 121492	7.1	2
277	Studies into the kinetic compensation effects of Loy Yang Brown coal during gasification in a steam environment A mechanistic view. *Chemical Engineering Journal Advances*, **2021**, 8, 100159	3.6	3
276	Polymerization of sugars/furan model compounds and bio-oil during the acid-catalyzed conversion A review. *Fuel Processing Technology*, **2021**, 222, 106958	7.2	4
275	Difference in tar reforming activities between biochar catalysts activated in H_2O and CO_2. *Fuel*, **2020**, 271, 117636	7.1	16
274	Mechanistic insights into the kinetic compensation effects during the gasification of biochar: Effects of the partial pressure of H_2O. *Fuel*, **2020**, 263, 116632	7.1	7
273	Mechanistic insights into the kinetic compensation effects during the gasification of biochar in H_2O. *Fuel*, **2019**, 255, 115839	7.1	10
272	High yields of solid carbonaceous materials from biomass. *Green Chemistry*, **2019**, 21, 1128-1140	10	70
271	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	7.1	58

270	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	55
269	Microkinetic modelling and reaction pathway analysis of the steam reforming of ethanol over Ni/SiO2. *International Journal of Hydrogen Energy*, **2019**, 44, 22816-22830	6.7	10
268	Hydrotreatment of pyrolysis bio-oil: A review. *Fuel Processing Technology*, **2019**, 195, 106140	7.2	93
267	Investigation into the Flow Assurance of Waxy Crude Oil by Application of Graphene-Based Novel Nanocomposite Pour Point Depressants. *Energy & Fuels*, **2019**, 33, 12330-12345	4.1	8
266	A case study: what is leached from mallee biochars as a function of pH?. *Environmental Monitoring and Assessment*, **2018**, 190, 294	3.1	8
265	An X-ray photoelectron spectroscopic perspective for the evolution of O-containing structures in char during gasification. *Fuel Processing Technology*, **2018**, 172, 209-215	7.2	12
264	Oxidative pyrolysis of mallee wood biomass, cellulose and lignin. *Fuel*, **2018**, 217, 382-388	7.1	24
263	Effects of the Particle Size and Gasification Atmosphere on the Changes in the Char Structure during the Gasification of Mallee Biomass. *Energy & Fuels*, **2018**, 32, 7678-7684	4.1	12
262	A self-heating oxygen pump using microchanneled ceramic membranes for portable oxygen supply. *Chemical Engineering Science*, **2018**, 192, 541-550	4.4	2
261	High performance anode with dendritic porous structure for low temperature solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2018**, 43, 17849-17856	6.7	14
260	Nanocatalysts anchored on nanofiber support for high syngas production via methane partial oxidation. *Applied Catalysis A: General*, **2018**, 565, 119-126	5.1	14
259	Destruction of tar during volatile-char interactions at low temperature. *Fuel Processing Technology*, **2018**, 171, 215-222	7.2	49
258	Acid-treatment of bio-oil in methanol: The distinct catalytic behaviours of a mineral acid catalyst and a solid acid catalyst. *Fuel*, **2018**, 212, 412-421	7.1	20
257	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	7.1	32
256	Changes in the Biochar Chemical Structure during the Low-Temperature Gasification of Mallee Biochar in Air as Revealed with Fourier Transform Infrared/Raman and X-ray Photoelectron Spectroscopies. *Energy & Fuels*, **2018**, 32, 12545-12553	4.1	5
255	Kinetic compensation effects in the chemical reaction-controlled regime and mass transfer-controlled regime during the gasification of biochar in O2. *Fuel Processing Technology*, **2018**, 181, 25-32	7.2	18
254	Reaction behaviour of light and heavy components of bio-oil in methanol and in water. *Fuel*, **2018**, 232, 645-652	7.1	3
253	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	35

252	Pyrolysis of large mallee wood particles: Temperature gradients within a pyrolysing particle and effects of moisture content. *Fuel Processing Technology*, **2017**, 158, 163-171	7.2	21
251	Effects of char chemical structure and AAEM retention in char during the gasification at 900 °C on the changes in low-temperature char-O_2 reactivity for Collie sub-bituminous coal. *Fuel*, **2017**, 195, 253-259	7.1	19
250	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	29
249	One-pot conversion of biomass-derived xylose and furfural into levulinate esters via acid catalysis. *Chemical Communications*, **2017**, 53, 2938-2941	5.8	69
248	Effects of thermal pretreatment and ex-situ grinding on the pyrolysis of mallee wood cylinders. *Fuel Processing Technology*, **2017**, 159, 211-221	7.2	8
247	Changes in char structure during the thermal treatment of nascent chars in N_2 and subsequent gasification in O_2. *Fuel*, **2017**, 199, 264-271	7.1	16
246	Thin ceramic membrane with dendritic microchanneled sub structure and high oxygen permeation rate. *Journal of Membrane Science*, **2017**, 541, 653-660	9.6	13
245	Grinding pyrolysis of Mallee wood: Effects of pyrolysis conditions on the yields of bio-oil and biochar. *Fuel Processing Technology*, **2017**, 167, 215-220	7.2	23
244	Hierarchically ordered porous Ni-based cathode-supported solid oxide electrolysis cells for stable CO_2 electrolysis without safe gas. *Journal of Materials Chemistry A*, **2017**, 5, 24098-24102	13	22
243	Effects of calcination temperature of electrospun fibrous Ni/Al_2O_3 catalysts on the dry reforming of methane. *Fuel Processing Technology*, **2017**, 155, 246-251	7.2	38
242	Upgrading of bio-oil via acid-catalyzed reactions in alcohols – A mini review. *Fuel Processing Technology*, **2017**, 155, 2-19	7.2	74
241	Biofuel and Methyl Levulinate from Biomass-Derived Fractional Condensed Pyrolysis Oil and Alcohol. *Energy Technology*, **2017**, 5, 205-215	3.5	4
240	Coke formation during the hydrotreatment of bio-oil using NiMo and CoMo catalysts. *Fuel Processing Technology*, **2017**, 155, 261-268	7.2	36
239	Effects of Alkali and Alkaline Earth Metallic Species and Chemical Structure on Nascent Char–O_2 Reactivity. *Energy & Fuels*, **2017**, 31, 13578-13584	4.1	8
238	Formation of coke during the esterification of pyrolysis bio-oil. *RSC Advances*, **2016**, 6, 86485-86493	3.7	16
237	Importance of hydrogen and bio-oil inlet temperature during the hydrotreatment of bio-oil. *Fuel Processing Technology*, **2016**, 150, 132-140	7.2	26
236	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	7.1	47
235	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	28

234	Simultaneous hydrogenation and acid-catalyzed conversion of the biomass-derived furans in solvents with distinct polarities. *RSC Advances*, **2016**, 6, 4647-4656	3.7	21
233	Feasibility of Direct Utilization of Biomass Gasification Product Gas Fuels in Tubular Solid Oxide Fuel Cells for On-Site Electricity Generation. *Energy & Fuels*, **2016**, 30, 1849-1857	4.1	25
232	Polymerization and cracking during the hydrotreatment of bio-oil and heavy fractions obtained by fractional condensation using Ru/C and NiMo/Al_2O_3 catalyst. *Journal of Analytical and Applied Pyrolysis*, **2016**, 118, 136-143	6	35
231	Effects of water and alcohols on the polymerization of furan during its acid-catalyzed conversion into benzofuran. *RSC Advances*, **2016**, 6, 40489-40501	3.7	31
230	Feasibility of tubular solid oxide fuel cells directly running on liquid biofuels. *Chemical Engineering Science*, **2016**, 154, 108-118	4.4	19
229	Microchannel structure of ceramic membranes for oxygen separation. *Journal of the European Ceramic Society*, **2016**, 36, 3193-3199	6	15
228	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	63
227	Improved gas diffusion within microchanneled cathode supports of SOECs for steam electrolysis. *International Journal of Hydrogen Energy*, **2016**, 41, 19829-19835	6.7	21
226	Formation of aromatic ring structures during the thermal treatment of mallee wood cylinders at low temperature. *Applied Energy*, **2016**, 183, 542-551	10.7	14
225	Changes in nascent char structure during the gasification of low-rank coals in CO_2. *Fuel*, **2015**, 158, 711-718	7.1	28
224	Second-order Raman spectroscopy of char during gasification. *Fuel Processing Technology*, **2015**, 135, 105-111	7.2	20
223	Formation of nascent char structure during the fast pyrolysis of mallee wood and low-rank coals. *Fuel*, **2015**, 150, 486-492	7.1	30
222	Effects of CO_2 and heating rate on the characteristics of chars prepared in CO_2 and N_2 atmospheres. *Fuel*, **2015**, 142, 243-249	7.1	53
221	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
220	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	7.1	57
219	Structural transformation of nascent char during the fast pyrolysis of mallee wood and low-rank coals. *Fuel Processing Technology*, **2015**, 138, 390-396	7.2	22
218	Effects of volatile–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	7.1	58
217	Biomass-derived sugars and furans: Which polymerize more during their hydrolysis?. *Fuel Processing Technology*, **2015**, 137, 212-219	7.2	48

216	Changes in char reactivity due to char–oxygen and char–steam reactions using victorian brown coal in a fixed-bed reactor. *Chinese Journal of Chemical Engineering*, **2015**, 23, 321-325	3.2	5
215	Importance of the aromatic structures in volatiles to the in-situ destruction of nascent tar during the volatile–char interactions. *Fuel Processing Technology*, **2015**, 132, 31-38	7.2	31
214	Improvement of oxygen permeation through microchanneled ceramic membranes. *Journal of Membrane Science*, **2014**, 454, 444-450	9.6	20
213	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. *Fuel*, **2014**, 122, 60-66	7.1	75
212	Hierarchically structured NiO/CeO2 nanocatalysts templated by eggshell membranes for methane steam reforming. *Catalysis Today*, **2014**, 228, 199-205	5.3	20
211	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	7.1	58
210	Quantification of strong and weak acidities in bio-oil via non-aqueous potentiometric titration. *Fuel*, **2014**, 115, 652-657	7.1	26
209	Microstructure control of oxygen permeation membranes with templated microchannels. *Journal of Materials Chemistry A*, **2014**, 2, 410-417	13	36
208	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	8.3	129
207	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	3.9	49
206	Raman Spectroscopic Investigations into Links between Intrinsic Reactivity and Char Chemical Structure. *Energy & Fuels*, **2014**, 28, 285-290	4.1	51
205	A preliminary Raman spectroscopic perspective for the roles of catalysts during char gasification. *Fuel*, **2014**, 121, 165-172	7.1	48
204	Catalytic reforming of tar during gasification. Part V. Decomposition of NOx precursors on the char-supported iron catalyst. *Fuel*, **2014**, 116, 19-24	7.1	25
203	Acid-treatment of C5 and C6 sugar monomers/oligomers: Insight into their interactions. *Fuel Processing Technology*, **2014**, 126, 315-323	7.2	30
202	Inhibiting and other effects of hydrogen during gasification: Further insights from FT-Raman spectroscopy. *Fuel*, **2014**, 116, 1-6	7.1	34
201	Microchanneled anode supports of solid oxide fuel cells. *Electrochemistry Communications*, **2014**, 42, 64-67	5.1	25
200	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
199	Polymerization on heating up of bio-oil: A model compound study. *AICHE Journal*, **2013**, 59, 888-900	3.6	130

198	Fibrous NiO/CeO2 nanocatalysts for the partial oxidation of methane at microsecond contact times. *RSC Advances*, **2013**, 3, 1341-1345	3.7	13
197	Importance of volatile char interactions during the pyrolysis and gasification of low-rank fuels A review. *Fuel*, **2013**, 112, 609-623	7.1	212
196	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
195	FT-IR carbonyl bands of bio-oils: Importance of water. *Fuel*, **2013**, 112, 596-598	7.1	8
194	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
193	A microchanneled ceramic membrane for highly efficient oxygen separation. *Journal of Materials Chemistry A*, **2013**, 1, 9641	13	30
192	Effects of gasifying agent on the evolution of char structure during the gasification of Victorian brown coal. *Fuel*, **2013**, 103, 22-28	7.1	137
191	Catalytic steam reforming of cellulose-derived compounds using a char-supported iron catalyst. *Fuel Processing Technology*, **2013**, 116, 234-240	7.2	54
190	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	7.1	54
189	A study on carbon formation over fibrous NiO/CeO2 nanocatalysts during dry reforming of methane. *Catalysis Today*, **2013**, 216, 44-49	5.3	24
188	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	6	45
187	Evolution of aromatic structures during the reforming of bio-oil: Importance of the interactions among bio-oil components. *Fuel*, **2013**, 111, 805-812	7.1	34
186	Effects of temperature on the yields and properties of bio-oil from the fast pyrolysis of mallee bark. *Fuel*, **2013**, 108, 400-408	7.1	62
185	Dual bed pyrolysis gasification of coal: Process analysis and pilot test. *Fuel*, **2013**, 112, 624-634	7.1	31
184	Acid-catalyzed conversion of mono- and poly-sugars into platform chemicals: effects of molecular structure of sugar substrate. *Bioresource Technology*, **2013**, 133, 469-74	11	52
183	Investigation of deactivation mechanisms of a solid acid catalyst during esterification of the bio-oils from mallee biomass. *Applied Energy*, **2013**, 111, 94-103	10.7	49
182	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	7.1	66
181	Formation of coke during the pyrolysis of bio-oil. *Fuel*, **2013**, 108, 439-444	7.1	73

180	An advanced biomass gasification technology with integrated catalytic hot gas cleaning: Part I. Technology and initial experimental results in a lab-scale facility. *Fuel*, **2013**, 108, 409-416	7.1	48
179	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	7.1	44
178	Coproduction of clean syngas and iron from woody biomass and natural goethite ore. *Fuel*, **2013**, 103, 64-72	7.1	20
177	Mechanisms and kinetic modelling of steam gasification of brown coal in the presence of volatilechar interactions. *Fuel*, **2013**, 103, 7-13	7.1	53
176	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	7.1	65
175	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	7.1	38
174	Catalytic reforming of tar during gasification. Part III. Effects of feedstock on tar reforming using ilmenite as a catalyst. *Fuel*, **2013**, 103, 950-955	7.1	28
173	Acid-catalysed treatment of the mallee leaf bio-oil with methanol: Effects of molecular structure of carboxylic acids and esters on their conversion. *Fuel Processing Technology*, **2013**, 106, 569-576	7.2	21
172	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	6	86
171	Poly(furfuryl alcohol)-assisted pyrolysis synthesis of ceramic nanoparticles for solid oxide fuel cells. *Materials Research Bulletin*, **2012**, 47, 1661-1665	5.1	
170	Transformation of chlorine in NaCl-loaded Victorian brown coal during the gasification in steam. *Journal of Fuel Chemistry and Technology*, **2012**, 40, 1409-1414	1.8	7
169	Changes in Char Structure during the Gasification of Mallee Wood: Effects of Particle Size and Steam Supply. *Energy & Fuels*, **2012**, 26, 193-198	4.1	23
168	Formation of Aromatic Structures during the Pyrolysis of Bio-oil. *Energy & Fuels*, **2012**, 26, 241-247	4.1	115
167	Mediating acid-catalyzed conversion of levoglucosan into platform chemicals with various solvents. *Green Chemistry*, **2012**, 14, 3087	10	68
166	Esterification of bio-oil from mallee (Eucalyptus loxophleba ssp. gratiae) leaves with a solid acid catalyst: Conversion of the cyclic ether and terpenoids into hydrocarbons. *Bioresource Technology*, **2012**, 123, 249-55	11	24
165	Yield and properties of bio-oil from the pyrolysis of mallee leaves in a fluidised-bed reactor. *Fuel*, **2012**, 102, 506-513	7.1	23
164	Formation of carbon on non-porous Ni mesh during the catalytic pyrolysis of acetylene. *Fuel Processing Technology*, **2012**, 104, 319-324	7.2	4
163	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	35.4	73

162	Production of value-added chemicals from bio-oil via acid catalysis coupled with liquid�quid extraction. *RSC Advances*, **2012**, 2, 9366	3.7	47
161	Acid-catalyzed conversion of xylose in methanol-rich medium as part of biorefinery. *ChemSusChem*, **2012**, 5, 1427-34	8.3	77
160	Hydrolysis and glycosidation of sugars during the esterification of fast pyrolysis bio-oil. *Fuel*, **2012**, 95, 146-151	7.1	41
159	Acid-catalysed reactions between methanol and the bio-oil from the fast pyrolysis of mallee bark. *Fuel*, **2012**, 97, 512-522	7.1	60
158	Levulinic esters from the acid-catalysed reactions of sugars and alcohols as part of a bio-refinery. *Green Chemistry*, **2011**, 13, 1676	10	186
157	Eggshell membrane-templated synthesis of highly crystalline perovskite ceramics for solid oxide fuel cells. *Journal of Materials Chemistry*, **2011**, 21, 1028-1032		36
156	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	3.9	113
155	A 3D fibrous cathode with high interconnectivity for solid oxide fuel cells. *Electrochemistry Communications*, **2011**, 13, 1038-1041	5.1	19
154	Catalytic oxidation of ethane with oxygen using fluidised nanoparticle NiO catalyst. *Applied Catalysis A: General*, **2011**, 405, 166-174	5.1	16
153	An FT-IR spectroscopic study of carbonyl functionalities in bio-oils. *Fuel*, **2011**, 90, 3417-3423	7.1	108
152	Reaction pathways of glucose during esterification: effects of reaction parameters on the formation of humin type polymers. *Bioresource Technology*, **2011**, 102, 10104-13	11	120
151	A mechanistic study on kinetic compensation effect during low-temperature oxidation of coal chars. *Proceedings of the Combustion Institute*, **2011**, 33, 1755-1762	5.9	52
150	Effects of crystallite size on the kinetics and mechanism of NiO reduction with H2. *International Journal of Chemical Kinetics*, **2011**, 43, 667-676	1.4	12
149	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	4.1	68
148	Effect of Coal Drying on the Behavior of Inorganic Species during Victorian Brown Coal Pyrolysis and Combustion. *Energy & Fuels*, **2011**, 25, 2764-2771	4.1	14
147	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	4.1	51
146	NiO reduction with hydrogen and light hydrocarbons: Contrast between SiO2-supported and unsupported NiO nanoparticles. *Applied Catalysis A: General*, **2011**, 398, 187-194	5.1	20
145	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�H2O and char�O2 reactivities. *Fuel*, **2011**, 90, 1655-1661	7.1	67

144	Effects of volatile–char interactions on the evolution of char structure during the gasification of Victorian brown coal in steam. *Fuel*, **2011**, 90, 1529-1535	7.1	124
143	Catalytic reforming of tar during gasification. Part I. Steam reforming of biomass tar using ilmenite as a catalyst. *Fuel*, **2011**, 90, 1847-1854	7.1	143
142	Experimental investigation of the combustion of bituminous coal in air and O2/CO2 mixtures: 2. Variation of the transformation behaviour of mineral matter with bulk gas composition. *Fuel*, **2011**, 90, 1361-1369	7.1	18
141	Simultaneous catalytic esterification of carboxylic acids and acetalisation of aldehydes in a fast pyrolysis bio-oil from mallee biomass. *Fuel*, **2011**, 90, 2530-2537	7.1	83
140	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	7.1	178
139	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	7.1	242
138	Synthesis and characterization of doped La9ASi6O26.5 (A = Ca, Sr, Ba) oxyapatite electrolyte by a water-based gel-casting route. *International Journal of Hydrogen Energy*, **2011**, 36, 6862-6874	6.7	41
137	Evolution of organically bound metals during coal combustion in air and O2/CO2 mixtures: A case study of Victorian brown coal. *Proceedings of the Combustion Institute*, **2011**, 33, 2795-2802	5.9	13
136	In-situ observation of the combustion of air-dried and wet Victorian brown coal. *Proceedings of the Combustion Institute*, **2011**, 33, 1739-1746	5.9	40
135	Catalytic and Noncatalytic Mechanisms in Steam Gasification of Char from the Pyrolysis of Biomass† *Energy & Fuels*, **2010**, 24, 108-116	4.1	106
134	HCN and NH3 formation during coal/char gasification in the presence of NO. *Environmental Science & Technology*, **2010**, 44, 3719-23	10.3	21
133	Characteristics of Gas-Phase Partial Oxidation of Nascent Tar from the Rapid Pyrolysis of Cedar Sawdust at 700–800 °C. *Energy & Fuels*, **2010**, 24, 2900-2909	4.1	19
132	In-Situ Reforming of Tar from the Rapid Pyrolysis of a Brown Coal over Char† *Energy & Fuels*, **2010**, 24, 76-83	4.1	67
131	High-Speed Camera Observation of Coal Combustion in Air and O2/CO2 Mixtures and Measurement of Burning Coal Particle Velocity† *Energy & Fuels*, **2010**, 24, 29-37	4.1	44
130	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	4.1	51
129	Experimental Investigation of the Combustion of Bituminous Coal in Air and O2/CO2 Mixtures: 1. Particle Imaging of the Combustion of Coal and Char. *Energy & Fuels*, **2010**, 24, 4803-4811	4.1	19
128	Thermosetting polymer templated nanoporous sinter-active layer for low temperature solid oxide fuel cells. *Journal of Materials Chemistry*, **2010**, 20, 1122-1126		17
127	Combustion synthesis of ceramic nanoparticles for solid oxide fuel cells. *Asia-Pacific Journal of Chemical Engineering*, **2010**, 5, 593-598	1.3	2

126	Formation of NOx precursors during the pyrolysis of coal and biomass. Part X: Effects of volatilechar interactions on the conversion of coal-N during the gasification of a Victorian brown coal in O2 and steam at 800℃. *Fuel*, **2010**, 89, 1035-1040	7.1	15
125	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
124	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	7.1	80
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