

# Dongke Zhang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

192  
papers

7,644  
citations

43  
h-index

81  
g-index

193  
ext. papers

8,903  
ext. citations

6.2  
avg, IF

6.69  
L-index

#	Paper	IF	Citations
192	An Experimental Study of the Performance of Isomorphically Zirconium-Substituted Mesoporous Alumina Supported Cobalt Catalysts in Fischer-Tropsch Synthesis. <i>Advances in Chemical Engineering and Science</i> , <b>2022</b> , 12, 40-53	0.4	0
191	Catalytic Hydrodesulfurization of a Spent Tire Pyrolysis Oil Distillate over a NiMo Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 1624-1635	3.9	0
190	An investigation into the preparation of carbon black by partial oxidation of spent tyre pyrolysis oil. <i>Waste Management</i> , <b>2022</b> , 137, 110-120	8.6	1
189	Effect of K <sub>2</sub> CO <sub>3</sub> Addition on CO <sub>2</sub> Gasification Characteristics and Ash Sintering Behaviour of a Chinese Lignite at Different Temperatures and Pressures as Examined Using a High-Pressure Thermogravimetric Analyser. <i>Environmental Science and Engineering</i> , <b>2022</b> , 159-177	0.2	0
188	An experimental investigation into the effect of spark gap and duration on minimum ignition energy of partially dissociated NH <sub>3</sub> in air. <i>Combustion and Flame</i> , <b>2022</b> , 241, 112053	5.3	0
187	Transformation and fate of sulphur during steam gasification of a spent tyre pyrolysis char. <i>Fuel</i> , <b>2022</b> , 321, 124091	7.1	0
186	Advanced boil-off gas studies of liquefied natural gas used for the space and energy industries. <i>Acta Astronautica</i> , <b>2021</b> , 190, 444-444	2.9	2
185	Preparation and characterization of carbon black (CB) using heavy residue fraction of spent tyre pyrolysis oil. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106561	6.8	1
184	Effect of biochar addition on microbial community and methane production during anaerobic digestion of food wastes: The role of minerals in biochar. <i>Bioresource Technology</i> , <b>2021</b> , 323, 124585	11	16
183	Fluorine-Containing Triazole-Decorated Silver(I)-Based Cationic Metal-Organic Framework for Separating Organic Dyes and Removing Oxoanions from Water. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 7070-7081	5.1	5
182	Performance of activated carbons prepared from spent tyres in the adsorption of rhodamine B in aqueous solutions. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 52862-52872	5.1	2
181	Burst mode in a cooled packed-bed dielectric barrier discharge reactor for CO <sub>2</sub> splitting *. <i>Plasma Research Express</i> , <b>2021</b> , 3, 025009	1	0
180	Utilisation of spent tyre pyrolysis char as activated carbon feedstock: The role, transformation and fate of Zn. <i>Waste Management</i> , <b>2021</b> , 126, 549-558	8.6	6
179	An experimental investigation into bed particle agglomeration and ash deposition during circulating fluidized bed gasification of Zhundong lignite. <i>Journal of the Energy Institute</i> , <b>2021</b> , 96, 192-204	5.7	1
178	Effect of oil shale semi-coke on deposit mineralogy and morphology in the flue path of a CFB burning Zhundong lignite. <i>Frontiers in Energy</i> , <b>2021</b> , 15, 26-37	2.6	5
177	Manufacturing of carbon black from spent tyre pyrolysis oil [A literature review]. <i>Journal of Cleaner Production</i> , <b>2021</b> , 279, 123336	10.3	19
176	The transformation and fate of sulphur during CO <sub>2</sub> gasification of a spent tyre pyrolysis char. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 3891-3898	5.9	5

175	Pore Development During CO <sub>2</sub> and Steam Activation of a Spent Tyre Pyrolysis Char. <i>Waste and Biomass Valorization</i> , <b>2021</b> , 12, 2097-2108	3.2	5
174	Experimental and kinetic modelling studies of flammability limits of partially dissociated NH <sub>3</sub> and air mixtures. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 2023-2030	5.9	6
173	Propagation of glowing combustion front in a packed bed of activated carbon particles and the role of CO oxidation. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 5023-5032	5.9	4
172	Minimum ignition energies and laminar burning velocities of ammonia, HFO-1234yf, HFC-32 and their mixtures with carbon dioxide, HFC-125 and HFC-134a. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 407, 124781	12.8	7
171	Effect of biochar in enhancing hydrogen production by mesophilic anaerobic digestion of food wastes: The role of minerals. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 3695-3703	6.7	12
170	Counter-current flame propagation in a cylindrical bed of activated carbon saturated with artificial volatile matter in an upward flow of O <sub>2</sub> /N <sub>2</sub> mixture. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 4251-4259	5.9	1
169	Synergistic effect of dielectric barrier discharge plasma and Mn catalyst on CO <sub>2</sub> reforming of toluene. <i>Fuel</i> , <b>2021</b> , 285, 119057	7.1	5
168	The application of spent tyre activated carbons as low-cost environmental pollution adsorbents: A technical review. <i>Journal of Cleaner Production</i> , <b>2021</b> , 312, 127566	10.3	10
167	An experimental study of gasification kinetics during steam activation of a spent tyre pyrolysis char. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105306	6.8	5
166	An experimental study of Ni-Mo adsorbent for reactive adsorption desulfurization of spent tire pyrolysis oil modelled using n-hexane and thiophene. <i>Fuel</i> , <b>2021</b> , 303, 121272	7.1	5
165	Preparation and evaluation of catalysts of highly dispersed zerovalent iron (Fe <sup>0</sup> ) supported on activated carbon for NO reduction. <i>Fuel</i> , <b>2021</b> , 303, 121252	7.1	1
164	Desulfurization of Spent Tire Pyrolysis Oil and Its Distillate via Combined Catalytic Oxidation using H <sub>2</sub> O <sub>2</sub> with Formic Acid and Selective Adsorption over Al <sub>2</sub> O <sub>3</sub> . <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 6209-6219	4.1	17
163	Experimental and kinetic modelling studies of laminar flame speed in mixtures of partially dissociated NH <sub>3</sub> in air. <i>Fuel</i> , <b>2020</b> , 278, 118428	7.1	6
162	Effect of n-butanol addition on the burning rate and soot characteristics during combustion of single droplets of dieselBiodiesel blends. <i>Fuel</i> , <b>2020</b> , 265, 117020	7.1	10
161	Experimental Investigation into Ash Deposition and Na Migration Characteristics during Combustion of High Sodium Zhundong Lignite in a Circulating Fluidized Bed Operating at Low Temperatures. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 188-198	4.1	8
160	Preparation and evaluation of iron nanoparticles embedded CNTs grown on ZSM-5 as catalysts for NO decomposition. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123798	14.7	5
159	An experimental investigation into the effect of flue gas recirculation on ash deposition and Na migration behaviour in circulating fluidized bed during combustion of high sodium Zhundong lignite. <i>Fuel Processing Technology</i> , <b>2020</b> , 199, 106300	7.2	8
158	Rheological Properties and Stability Characteristics of Biochar-Algae-Water Slurry Fuels Prepared by Wet Milling. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2019</b> , 141,	2.6	2

157	Transient performance during start-up of a two-phase anaerobic digestion process demonstration unit treating carbohydrate-rich waste with biochar addition. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 14341-14350	6.7	10
156	A technoeconomic analysis of centralised and distributed processes of ammonia dissociation to hydrogen for fuel cell vehicle applications. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 14445-14455	6.7	13
155	Mesoporous titania anodes with tunable structural properties and improved electrochemical performance for Li-ion batteries. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 285, 89-95	5.3	1
154	Morphological and Mineralogical Characterization of Ash Deposits during Circulating Fluidized Bed Combustion of Zhundong Lignite. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 2122-2132	4.1	15
153	Effect of Heat Treatment on the Combustion Characteristics of a Lignite. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2019</b> , 141,	2.6	4
152	An experimental investigation into mineral transformation, particle agglomeration and ash deposition during combustion of Zhundong lignite in a laboratory-scale circulating fluidized bed. <i>Fuel</i> , <b>2019</b> , 243, 458-468	7.1	28
151	Facile Design of Highly Effective CuCe <sub>x</sub> Co <sub>1-x</sub> O <sub>y</sub> Catalysts with Diverse Surface/Interface Structures toward NO Reduction by CO at Low Temperatures. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 15459-15469	3.9	8
150	An experimental study of CO <sub>2</sub> gasification kinetics during activation of a spent tyre pyrolysis char. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 149, 129-137	5.5	18
149	Investigation into scavenging of sodium and ash deposition characteristics during co-combustion of Zhundong lignite with an oil shale semi-coke of high aluminosilicate in a circulating fluidized bed. <i>Fuel</i> , <b>2019</b> , 257, 116099	7.1	16
148	NH <sub>3</sub> as a Transport Fuel in Internal Combustion Engines: A Technical Review. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2019</b> , 141,	2.6	25
147	Pinewood pyrolysis occurs at lower temperatures following treatment with choline-amino acid ionic liquids. <i>Fuel</i> , <b>2019</b> , 236, 306-312	7.1	10
146	Decomposition of key minerals in coal gangues during combustion in O <sub>2</sub> /N <sub>2</sub> and O <sub>2</sub> /CO <sub>2</sub> atmospheres. <i>Applied Thermal Engineering</i> , <b>2019</b> , 148, 977-983	5.8	21
145	A phenomenological investigation into potassium migration and ash sintering characteristics during p.f. combustion of lignites with and without K <sub>2</sub> CO <sub>3</sub> addition. <i>Applied Thermal Engineering</i> , <b>2019</b> , 148, 64-77	5.8	7
144	Dissolution and suspension of asphaltenes with ionic liquids. <i>Fuel</i> , <b>2019</b> , 238, 129-138	7.1	22
143	Contrasting the Pyrolysis Behavior of Selected Biomass and the Effect of Lignin. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2018</b> , 140,	2.6	8
142	Effect of Biochar Addition and Temperature on Hydrogen Production From the First Phase of Two-Phase Anaerobic Digestion of Carbohydrates Food Waste. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2018</b> , 140,	2.6	7
141	Synthesis of 2D MFI zeolites in the form of self-interlocked nanosheet stacks with tuneable structural and chemical properties for catalysis. <i>Applied Materials Today</i> , <b>2018</b> , 11, 22-33	6.6	10
140	2D versus 3D MFI zeolite: The effect of Si/Al ratio on the accessibility of acid sites and catalytic performance. <i>Materials Today Chemistry</i> , <b>2018</b> , 8, 1-12	6.2	9

139	Effect of reaction conditions on methanol to gasoline conversion over nanocrystal ZSM-5 zeolite. <i>Catalysis Today</i> , <b>2018</b> , 314, 107-113	5.3	15
138	Experimental Study of Ignition and Combustion Characteristics of Single Particles of Zhundong Lignite. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 4221-4226	4.1	11
137	A thermodynamic analysis and economic evaluation of an integrated lignite upgrading and power generation system. <i>Applied Thermal Engineering</i> , <b>2018</b> , 135, 356-367	5.8	11
136	A Thermogravimetric study of the characteristics of pyrolysis of cellulose isolated from selected biomass. <i>Applied Energy</i> , <b>2018</b> , 220, 87-93	10.7	41
135	Combustion and emission characteristics of simulated biogas from Two-Phase Anaerobic Digestion (T-PAD) in a spark ignition engine. <i>Applied Thermal Engineering</i> , <b>2018</b> , 129, 927-933	5.8	13
134	The role of solvent preparation in soft template assisted synthesis of mesoporous alumina. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 260, 9-16	5.3	9
133	Relating coke formation and characteristics to deactivation of ZSM-5 zeolite in methanol to gasoline conversion. <i>Applied Catalysis A: General</i> , <b>2018</b> , 549, 141-151	5.1	51
132	Enhancement of Low-Temperature Catalytic Activity over a Highly Dispersed Fe/Mn/Ti Catalyst for Selective Catalytic Reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 10159-10169	3.9	38
131	High pyrolysis temperature biochars reduce nitrogen availability and nitrous oxide emissions from an acid soil. <i>GCB Bioenergy</i> , <b>2018</b> , 10, 930-945	5.6	10
130	Characterisation of subfractions of asphaltenes extracted from an oil sand using NMR, DEPT and MALDI-TOF. <i>Journal of Petroleum Science and Engineering</i> , <b>2018</b> , 168, 148-155	4.4	17
129	Rheological Properties and Ignition and Combustion Characteristics of Biochar-Algae-Water Slurry Fuels. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2018</b> , 140,	2.6	3
128	Synthesis of high quality zeolites from coal fly ash: Mobility of hazardous elements and environmental applications. <i>Journal of Cleaner Production</i> , <b>2018</b> , 202, 390-400	10.3	48
127	Inductive Effect Boosting Catalytic Performance of Advanced Fe <sub>1-x</sub> V <sub>x</sub> O <sub>4</sub> Catalysts in Low-Temperature NH <sub>3</sub> Selective Catalytic Reduction: Insight into the Structure, Interaction, and Mechanisms. <i>ACS Catalysis</i> , <b>2018</b> , 8, 6760-6774	13.1	73
126	An experimental investigation into the ignition and combustion characteristics of single droplets of biochar water slurry fuels in air. <i>Applied Energy</i> , <b>2017</b> , 185, 2160-2167	10.7	53
125	Kinetic Modeling Study of the Effect of Iron on Ignition and Combustion of n-Heptane in Counter-flow Diffusion Flames. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 2190-2197	4.1	1
124	A Preliminary Investigation Into the Characterization of Asphaltenes Extracted From an Oil Sand and Two Vacuum Residues From Petroleum Refining Using Nuclear Magnetic Resonance, DEPT, and MALDI-TOF. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2017</b> , 139,	2.6	13
123	Effect of coal blending and ashing temperature on ash sintering and fusion characteristics during combustion of Zhundong lignite. <i>Fuel</i> , <b>2017</b> , 195, 131-142	7.1	61
122	p-Xylene selectivity enhancement in methanol toluene alkylation by separation of catalysis function and shape-selective function. <i>Molecular Catalysis</i> , <b>2017</b> , 433, 242-249	3.3	18

121	An Experimental Study of the Rheological Properties and Stability Characteristics of Biochar-Algae-Water Slurry Fuels. <i>Energy Procedia</i> , <b>2017</b> , 105, 125-130	2.3	11
120	Characterisation of Asphaltenes Extracted from an Oil Sand and Two Petroleum Vacuum Residues Using HRTEM. <i>Energy Procedia</i> , <b>2017</b> , 105, 143-148	2.3	5
119	An Experimental Investigation into the Effect of Soap on Ignition and Combustion Characteristics of Single Droplets of Glycerol. <i>Combustion Science and Technology</i> , <b>2017</b> , 189, 1540-1550	1.5	1
118	An experimental study of the rheological properties and stability characteristics of biochar-algae-water slurry fuels. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2017</b> , 1-6	1.6	4
117	Inhibition of Arabidopsis chloroplast $\alpha$ -amylase BAM3 by maltotriose suggests a mechanism for the control of transitory leaf starch mobilisation. <i>PLoS ONE</i> , <b>2017</b> , 12, e0172504	3.7	11
116	Stratification and Chemistry Evolution of Ash Deposits During Combustion of Zhundong Lignite in a Drop Tube Furnace. <i>Energy Procedia</i> , <b>2017</b> , 105, 4216-4221	2.3	3
115	Combustion and Emission Characteristics of a Spark Ignition Engine Fuelled with Biogas from Two-Phase Anaerobic Digestion (T-PAD). <i>Energy Procedia</i> , <b>2017</b> , 105, 137-142	2.3	9
114	Semiempirical Correlation for Predicting Laminar Flame Speed of H <sub>2</sub> /CO/Air Flames with CO <sub>2</sub> and N <sub>2</sub> Dilution. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 9957-9966	4.1	10
113	Effect of Biochar Addition and Initial pH on Hydrogen Production from the First Phase of Two-Phase Anaerobic Digestion of Carbohydrates Food Waste. <i>Energy Procedia</i> , <b>2017</b> , 105, 379-384	2.3	24
112	Effect of CaCO <sub>3</sub> addition on ash sintering behaviour during K <sub>2</sub> CO <sub>3</sub> catalysed steam gasification of a Chinese lignite. <i>Applied Thermal Engineering</i> , <b>2017</b> , 111, 503-509	5.8	16
111	An experimental study of the ignition and combustion characteristics of single droplets of biochar-glycerol-water slurry fuels. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 2475-2482	5.9	27
110	Characterization of hard- and softwood biochars pyrolyzed at high temperature. <i>Environmental Geochemistry and Health</i> , <b>2017</b> , 39, 403-415	4.7	27
109	Rheological behaviour and stability characteristics of biochar-water slurry fuels: Effect of biochar particle size and size distribution. <i>Fuel Processing Technology</i> , <b>2017</b> , 156, 27-32	7.2	15
108	Ignition and combustion characteristics of single particles of Zhundong lignite: Effect of water and acid washing. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 2139-2146	5.9	33
107	An experimental and kinetic study of canola oil transesterification catalyzed by mesoporous alumina supported potassium. <i>Applied Catalysis A: General</i> , <b>2017</b> , 530, 166-173	5.1	17
106	Pyrolysis Characteristics of Cellulose Isolated from Selected Biomass Feedstocks using a Thermogravimetric Analyser. <i>Energy Procedia</i> , <b>2017</b> , 142, 636-641	2.3	5
105	Copper and zinc adsorption by softwood and hardwood biochars under elevated sulphate-induced salinity and acidic pH conditions. <i>Chemosphere</i> , <b>2016</b> , 142, 64-71	8.4	131
104	Hydrogen production by methane cracking over Xiaolongtan lignite chars: The role of mineral matter. <i>Fuel</i> , <b>2016</b> , 183, 345-350	7.1	12

103	Effect of ash preparation method on the sintering characteristics of ashes from combustion of coal and biomass blends. <i>Fuel</i> , <b>2016</b> , 186, 830-837	7.1	17
102	Ignition and combustion characteristics of single droplets of a crude glycerol in comparison with pure glycerol, petroleum diesel, biodiesel and ethanol. <i>Energy</i> , <b>2016</b> , 113, 153-159	7.9	34
101	Volatile Release and Ignition Behaviors of Single Coal Particles at Different Oxygen Concentrations Under Microgravity. <i>Microgravity Science and Technology</i> , <b>2016</b> , 28, 101-108	1.6	6
100	Effect of SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> ratio on the performance of nanocrystal ZSM-5 zeolite catalysts in methanol to gasoline conversion. <i>Applied Catalysis A: General</i> , <b>2016</b> , 523, 312-320	5.1	73
99	Biochar nutrient availability rather than its water holding capacity governs the growth of both C3 and C4 plants. <i>Journal of Soils and Sediments</i> , <b>2016</b> , 16, 801-810	3.4	24
98	Thermodynamic analysis and economic evaluation of a 1000 MW bituminous coal fired power plant incorporating low-temperature pre-drying (LTPD). <i>Applied Thermal Engineering</i> , <b>2016</b> , 96, 613-622	5.8	22
97	Characterisation of ash deposits on a probe at different temperatures during combustion of a Zhundong lignite in a drop tube furnace. <i>Fuel Processing Technology</i> , <b>2016</b> , 144, 155-163	7.2	79
96	Pyrolysis of an Indonesian oil sand in a thermogravimetric analyser and a fixed-bed reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 117, 191-198	6	20
95	A facile route to aqueous phase synthesis of mesoporous alumina with controllable structural properties. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 223, 203-212	5.3	20
94	Effect of Ashing Temperature on the Physicochemical Properties of Zhundong Lignite Ashes Prepared in a Muffle Furnace <b>2016</b> , 133-138		3
93	Status and Prospects of Alkaline Electrolysis <b>2016</b> , 283-308		1
92	The mineralogy, morphology and sintering characteristics of ash deposits on a probe at different temperatures during combustion of blends of Zhundong lignite and a bituminous coal in a drop tube furnace. <i>Fuel Processing Technology</i> , <b>2016</b> , 149, 176-186	7.2	55
91	Roles of biochar in improving phosphorus availability in soils: A phosphate adsorbent and a source of available phosphorus. <i>Geoderma</i> , <b>2016</b> , 276, 1-6	6.7	154
90	A new criterion for determination of coal ash sintering temperature using the pressure-drop technique and the effect of ash mineralogy and geochemistry. <i>Fuel</i> , <b>2016</b> , 179, 71-78	7.1	18
89	Extinction limit and near-limit kinetics of lean premixed stretched H <sub>2</sub> -CO-air flames. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 17687-17694	6.7	11
88	Ozone effect on the flammability limit and near-limit combustion of syngas/air flames with N <sub>2</sub> , CO <sub>2</sub> , and H <sub>2</sub> O dilutions. <i>Fuel</i> , <b>2016</b> , 186, 414-421	7.1	20
87	Interactions of coal gangue and pine sawdust during combustion of their blends studied using differential thermogravimetric analysis. <i>Bioresource Technology</i> , <b>2016</b> , 214, 396-403	11	30
86	An experimental study of rheological properties and stability characteristics of biochar-glycerol-water slurry fuels. <i>Fuel Processing Technology</i> , <b>2016</b> , 153, 37-42	7.2	11

85	Rational Design of ZnFe <sub>2</sub> O <sub>4</sub> /In <sub>2</sub> O <sub>3</sub> Nanoheterostructures: Efficient Photocatalyst for Gaseous 1,2-Dichlorobenzene Degradation and Mechanistic Insight. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 4554-4562	8.3	70
84	Laminar flame speed of CO <sub>2</sub> and N <sub>2</sub> diluted H <sub>2</sub> /CO/air flames. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 15056-15067	6.7	26
83	Effect of biochar addition on hydrogen and methane production in two-phase anaerobic digestion of aqueous carbohydrates food waste. <i>Bioresource Technology</i> , <b>2016</b> , 219, 29-36	11	163
82	Effect of oxygenates addition on the flame characteristics and soot formation during combustion of single droplets of a petroleum diesel in air. <i>Fuel</i> , <b>2015</b> , 150, 88-95	7.1	36
81	Synthesis of inter-crystalline mesoporous ZSM-5 generated by self-interlocked MFI nanosheet stacks. <i>RSC Advances</i> , <b>2015</b> , 5, 63765-63776	3.7	11
80	An improved configuration of low-temperature pre-drying using waste heat integrated in an air-cooled lignite fired power plant. <i>Applied Thermal Engineering</i> , <b>2015</b> , 90, 312-321	5.8	41
79	Synthesis of mesoporous alumina with tunable structural properties. <i>Microporous and Mesoporous Materials</i> , <b>2015</b> , 217, 12-20	5.3	49
78	CO <sub>2</sub> capture by chemical absorption in coal-fired power plants: Energy-saving mechanism, proposed methods, and performance analysis. <i>International Journal of Greenhouse Gas Control</i> , <b>2015</b> , 39, 449-462	4.2	21
77	A preliminary assessment of the potential of using an acacia-biochar system for spent mine site rehabilitation. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 2138-44	5.1	38
76	A preliminary evaluation of ZSM-5/SBA-15 composite supported Co catalysts for Fischer-Tropsch synthesis. <i>Fuel Processing Technology</i> , <b>2015</b> , 134, 449-455	7.2	28
75	An improved configuration of lignite pre-drying using a supplementary steam cycle in a lignite fired supercritical power plant. <i>Applied Energy</i> , <b>2015</b> , 160, 882-891	10.7	58
74	Process modelling of biomass conversion to biofuels with combined heat and power. <i>Bioresource Technology</i> , <b>2015</b> , 198, 309-15	11	12
73	An Experimental Investigation into the Ignition and Combustion Characteristics of Single Droplets of Biochar Slurry Fuels. <i>Energy Procedia</i> , <b>2015</b> , 75, 180-185	2.3	5
72	Effect of a homogeneous combustion catalyst on the nanostructure and oxidative properties of soot from biodiesel combustion in a compression ignition engine. <i>Proceedings of the Combustion Institute</i> , <b>2015</b> , 35, 1947-1954	5.9	24
71	Multi-fluid reactive modeling of fluidized bed pyrolysis process. <i>Chemical Engineering Science</i> , <b>2015</b> , 123, 311-321	4.4	48
70	Structure sensitivity of selective catalytic reduction of NO with propylene over Cu-doped Ti <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 165, 519-528	21.8	16
69	A new conceptual cold-end design of boilers for coal-fired power plants with waste heat recovery. <i>Energy Conversion and Management</i> , <b>2015</b> , 89, 137-146	10.6	67
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