

Dongke Zhang

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192
papers

7,644
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193
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8,903
ext. citations

6.2
avg, IF

6.69
L-index

#	Paper	IF	Citations
192	Recent progress in alkaline water electrolysis for hydrogen production and applications. <i>Progress in Energy and Combustion Science</i> , 2010 , 36, 307-326	33.6	1917
191	Biomass pyrolysis: A review of modelling, process parameters and catalytic studies. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 50, 1081-1096	16.2	376
190	Effect of Ultrasound on Lignocellulosic Biomass as a Pretreatment for Biorefinery and Biofuel Applications. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 3563-3580	3.9	203
189	Removal of ammonium from greywater using natural zeolite. <i>Desalination</i> , 2011 , 277, 15-23	10.3	189
188	Effect of biochar addition on hydrogen and methane production in two-phase anaerobic digestion of aqueous carbohydrates food waste. <i>Bioresource Technology</i> , 2016 , 219, 29-36	11	163
187	Roles of biochar in improving phosphorus availability in soils: A phosphate adsorbent and a source of available phosphorus. <i>Geoderma</i> , 2016 , 276, 1-6	6.7	154
186	Novel V ₂ O ₅ /BiVO ₄ /TiO ₂ Nanocomposites with High Visible-Light-Induced Photocatalytic Activity for the Degradation of Toluene. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10113-10121	3.8	153
185	Copper and zinc adsorption by softwood and hardwood biochars under elevated sulphate-induced salinity and acidic pH conditions. <i>Chemosphere</i> , 2016 , 142, 64-71	8.4	131
184	In situ capture of active species and oxidation mechanism of RhB and MB dyes over sunlight-driven Ag/Ag ₃ PO ₄ plasmonic nanocatalyst. <i>Applied Catalysis B: Environmental</i> , 2012 , 125, 538-545	21.8	120
183	One-step synthesis of flower-like Ag/AgCl/BiOCl composite with enhanced visible-light photocatalytic activity. <i>Catalysis Communications</i> , 2011 , 16, 229-233	3.2	109
182	Evaluating the Behavior of Electrolytic Gas Bubbles and Their Effect on the Cell Voltage in Alkaline Water Electrolysis. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 13825-13832	3.9	103
181	Thermal stability and kinetics of decomposition of ammonium nitrate in the presence of pyrite. <i>Journal of Hazardous Materials</i> , 2009 , 165, 751-8	12.8	81
180	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> , 2016 , 144, 155-163	7.2	79
179	Hydrophobic precipitation of carbonaceous spheres from fructose by a hydrothermal process. <i>Carbon</i> , 2012 , 50, 2155-2161	10.4	76
178	Effect of SiO ₂ /Al ₂ O ₃ ratio on the performance of nanocrystal ZSM-5 zeolite catalysts in methanol to gasoline conversion. <i>Applied Catalysis A: General</i> , 2016 , 523, 312-320	5.1	73
177	Inductive Effect Boosting Catalytic Performance of Advanced Fe _{1-x} V _x O ₄ Catalysts in Low-Temperature NH ₃ Selective Catalytic Reduction: Insight into the Structure, Interaction, and Mechanisms. <i>ACS Catalysis</i> , 2018 , 8, 6760-6774	13.1	73
176	Direct Synthesis of Hierarchical ZSM-5 Zeolite and Its Performance in Catalyzing Methanol to Gasoline Conversion. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 19471-19478	3.9	72

175	Rational Design of ZnFe ₂ O ₄ /In ₂ O ₃ Nanoheterostructures: Efficient Photocatalyst for Gaseous 1,2-Dichlorobenzene Degradation and Mechanistic Insight. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4554-4562	8.3	70
174	A new conceptual cold-end design of boilers for coal-fired power plants with waste heat recovery. <i>Energy Conversion and Management</i> , 2015 , 89, 137-146	10.6	67
173	Composition and sintering characteristics of ashes from co-firing of coal and biomass in a laboratory-scale drop tube furnace. <i>Energy</i> , 2014 , 69, 562-570	7.9	62
172	Effect of coal blending and ashing temperature on ash sintering and fusion characteristics during combustion of Zhundong lignite. <i>Fuel</i> , 2017 , 195, 131-142	7.1	61
171	A parametric study of supercritical carbon dioxide extraction of oil from Moringa oleifera seeds using a response surface methodology. <i>Separation and Purification Technology</i> , 2013 , 113, 9-17	8.3	61
170	Supercritical CO ₂ extraction of Eucalyptus leaves oil and comparison with Soxhlet extraction and hydro-distillation methods. <i>Separation and Purification Technology</i> , 2014 , 133, 443-451	8.3	60
169	Conversion of hexose into 5-hydroxymethylfurfural in imidazolium ionic liquids with and without a catalyst. <i>Carbohydrate Research</i> , 2011 , 346, 956-9	2.9	60
168	An improved configuration of lignite pre-drying using a supplementary steam cycle in a lignite fired supercritical power plant. <i>Applied Energy</i> , 2015 , 160, 882-891	10.7	58
167	Changes in $\delta^{15}N$ in a soil-plant system under different biochar feedstocks and application rates. <i>Biology and Fertility of Soils</i> , 2014 , 50, 275-283	6.1	58
166	Sulphur transformation during pyrolysis of an Australian lignite. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 1747-1753	5.9	58
165	A ZSM-5/MCM-48 based catalyst for methanol to gasoline conversion. <i>Fuel</i> , 2013 , 104, 878-881	7.1	55
164	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> , 2016 , 149, 176-186	7.2	55
163	An experimental investigation into the ignition and combustion characteristics of single droplets of biochar water slurry fuels in air. <i>Applied Energy</i> , 2017 , 185, 2160-2167	10.7	53
162	A process for efficient conversion of fructose into 5-hydroxymethylfurfural in ammonium salts. <i>Applied Catalysis A: General</i> , 2011 , 403, 98-103	5.1	52
161	Relating coke formation and characteristics to deactivation of ZSM-5 zeolite in methanol to gasoline conversion. <i>Applied Catalysis A: General</i> , 2018 , 549, 141-151	5.1	51
160	Manipulation of ultrasonic effects on lignocellulose by varying the frequency, particle size, loading and stirring. <i>Bioresource Technology</i> , 2013 , 148, 15-23	11	50
159	Synthesis of mesoporous alumina with tunable structural properties. <i>Microporous and Mesoporous Materials</i> , 2015 , 217, 12-20	5.3	49
158	Multi-fluid reactive modeling of fluidized bed pyrolysis process. <i>Chemical Engineering Science</i> , 2015 , 123, 311-321	4.4	48

157	Synthesis of high quality zeolites from coal fly ash: Mobility of hazardous elements and environmental applications. <i>Journal of Cleaner Production</i> , 2018 , 202, 390-400	10.3	48
156	Evaluating the effect of surface modifications on Ni based electrodes for alkaline water electrolysis. <i>Fuel</i> , 2014 , 116, 692-698	7.1	48
155	Nanostructure and oxidative properties of soot from a compression ignition engine: The effect of a homogeneous combustion catalyst. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 1869-1876	5.9	48
154	Preparation of nanoporous tin oxide by electrochemical anodization in alkaline electrolytes. <i>Electrochimica Acta</i> , 2011 , 56, 8797-8801	6.7	48
153	An experimental study into pyrite transformation during pyrolysis of Australian lignite samples. <i>Fuel</i> , 2010 , 89, 1700-1708	7.1	48
152	Effect of a homogeneous combustion catalyst on the combustion characteristics and fuel efficiency in a diesel engine. <i>Applied Energy</i> , 2012 , 91, 166-172	10.7	45
151	An experimental study of sulphate transformation during pyrolysis of an Australian lignite. <i>Fuel Processing Technology</i> , 2010 , 91, 313-321	7.2	44
150	The effect of a homogeneous combustion catalyst on exhaust emissions from a single cylinder diesel engine. <i>Applied Energy</i> , 2013 , 102, 556-562	10.7	43
149	An experimental investigation on the effect of convection on the ignition behaviour of single coal particles under various O ₂ concentrations. <i>Fuel</i> , 2014 , 116, 77-83	7.1	42
148	Supercritical fluid extraction and characterisation of Moringa oleifera leaves oil. <i>Separation and Purification Technology</i> , 2013 , 118, 497-502	8.3	42
147	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> , 2015 , 90, 312-321	5.8	41
146	A Thermogravimetric study of the characteristics of pyrolysis of cellulose isolated from selected biomass. <i>Applied Energy</i> , 2018 , 220, 87-93	10.7	41
145	Cornstalk liquefaction in methanol/water mixed solvents. <i>Fuel Processing Technology</i> , 2014 , 117, 1-7	7.2	39
144	A preliminary assessment of the potential of using an acacia--biochar system for spent mine site rehabilitation. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 2138-44	5.1	38
143	Enhancement of Low-Temperature Catalytic Activity over a Highly Dispersed Fe/Mn/Ti Catalyst for Selective Catalytic Reduction of NO _x with NH ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10159-10169	3.9	38
142	Effect of a homogeneous combustion catalyst on the characteristics of diesel soot emitted from a compression ignition engine. <i>Applied Energy</i> , 2014 , 113, 751-757	10.7	38
141	The selective catalytic reduction of NO with propene over Cu-supported TiO ₂ mixed oxide catalysts: Promotional effect of ceria. <i>Journal of Molecular Catalysis A</i> , 2013 , 378, 115-123		38
140	CFD modeling of mixing/segregation behavior of biomass and biochar particles in a bubbling fluidized bed. <i>Chemical Engineering Science</i> , 2014 , 106, 264-274	4.4	37

139	Effect of a homogeneous combustion catalyst on combustion characteristics of single droplets of diesel and biodiesel. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 1537-1544	5.9	37
138	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> , 2015 , 150, 88-95	7.1	36
137	Effect of temperature and pressure on the mineralogical and fusion characteristics of Jincheng coal ash in simulated combustion and gasification environments. <i>Fuel</i> , 2013 , 104, 647-655	7.1	35
136	Ignition and combustion characteristics of single droplets of a crude glycerol in comparison with pure glycerol, petroleum diesel, biodiesel and ethanol. <i>Energy</i> , 2016 , 113, 153-159	7.9	34
135	Ignition and combustion characteristics of single particles of Zhundong lignite: Effect of water and acid washing. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 2139-2146	5.9	33
134	Ultrasonic Pretreatment of Wheat Straw in Oxidative and Nonoxidative Conditions Aided with Microwave Heating. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 12514-12522	3.9	32
133	An experimental investigation into the characteristics and deposition mechanism of high-viscosity coal ash. <i>Fuel</i> , 2014 , 119, 14-20	7.1	31
132	A phenomenological model of the mechanisms of lignocellulosic biomass pyrolysis processes. <i>Computers and Chemical Engineering</i> , 2014 , 60, 231-241	4	30
131	Insight into the mechanism of selective catalytic reduction of NO(x) by propene over the Cu/Ti(0.7)Zr(0.3)O ₂ catalyst by Fourier transform infrared spectroscopy and density functional theory calculations. <i>Environmental Science & Technology</i> , 2013 , 47, 4528-35	10.3	30
130	Interactions of coal gangue and pine sawdust during combustion of their blends studied using differential thermogravimetric analysis. <i>Bioresource Technology</i> , 2016 , 214, 396-403	11	30
129	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> , 2019 , 243, 458-468	7.1	28
128	A preliminary evaluation of ZSM-5/SBA-15 composite supported Co catalysts for Fischer-Tropsch synthesis. <i>Fuel Processing Technology</i> , 2015 , 134, 449-455	7.2	28
127	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> , 2017 , 36, 2475-2482	5.9	27
126	Characterization of hard- and softwood biochars pyrolyzed at high temperature. <i>Environmental Geochemistry and Health</i> , 2017 , 39, 403-415	4.7	27
125	A facile synthesis strategy for structural property control of mesoporous alumina and its effect on catalysis for biodiesel production. <i>Advanced Powder Technology</i> , 2014 , 25, 1220-1226	4.6	26
124	Laminar flame speed of CO ₂ and N ₂ diluted H ₂ /CO/air flames. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 15056-15067	6.7	26
123	A phenomenological investigation into the opposing effects of fluid flow on sonochemical activity at different frequency and power settings. 1. Overhead stirring. <i>Ultrasonics Sonochemistry</i> , 2014 , 21, 436-45	8.9	25
122	Hydrogen production by methane cracking over different coal chars. <i>Fuel</i> , 2011 , 90, 3473-3479	7.1	25

121	NH ₃ as a Transport Fuel in Internal Combustion Engines: A Technical Review. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019 , 141,	2.6	25
120	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> , 2015 , 35, 1947-1954	5.9	24
119	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> , 2016 , 16, 801-810	3.4	24
118	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> , 2017 , 105, 379-384	2.3	24
117	Ultra-supercritical coal power plants 2013 ,		24
116	An experimental investigation into the solubility of Moringa oleifera oil in supercritical carbon dioxide. <i>Journal of Food Engineering</i> , 2014 , 138, 1-10	6	23
115	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> , 2016 , 96, 613-622	5.8	22
114	The effect of sodium silicate and sodium hydroxide on the strength of aggregates made from coal fly ash using the geopolymerisation method. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012 , 7, 73-79	1.3	22
113	An experimental study of the effect of a homogeneous combustion catalyst on fuel consumption and smoke emission in a diesel engine. <i>Energy</i> , 2011 , 36, 6004-6009	7.9	22
112	The role of titania pillar in copper-ion exchanged titania pillared clays for the selective catalytic reduction of NO by propylene. <i>Applied Catalysis A: General</i> , 2011 , 398, 82-87	5.1	22
111	Dissolution and suspension of asphaltenes with ionic liquids. <i>Fuel</i> , 2019 , 238, 129-138	7.1	22
110	CO ₂ 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> , 2015 , 39, 449-462	4.2	21
109	Key thermal events during pyrolysis and CO ₂ -gasification of selected combustible solid wastes in a thermogravimetric analyser. <i>Fuel</i> , 2014 , 137, 77-84	7.1	21
108	Decomposition of key minerals in coal gangues during combustion in O ₂ /N ₂ and O ₂ /CO ₂ atmospheres. <i>Applied Thermal Engineering</i> , 2019 , 148, 977-983	5.8	21
107	Pyrolysis of an Indonesian oil sand in a thermogravimetric analyser and a fixed-bed reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016 , 117, 191-198	6	20
106	A facile route to aqueous phase synthesis of mesoporous alumina with controllable structural properties. <i>Microporous and Mesoporous Materials</i> , 2016 , 223, 203-212	5.3	20
105	First identification of primary nanoparticles in the aggregation of HMF. <i>Nanoscale Research Letters</i> , 2012 , 7, 38	5	20
104	CO ₂ and H ₂ O Gasification Kinetics of a Coal Char in the Presence of Methane. <i>Energy & Fuels</i> , 2008 , 22, 2160-2165	4.1	20

103	Ozone effect on the flammability limit and near-limit combustion of syngas/air flames with N ₂ , CO ₂ , and H ₂ O dilutions. <i>Fuel</i> , 2016 , 186, 414-421	7.1	20
102	Manufacturing of carbon black from spent tyre pyrolysis oil [A literature review]. <i>Journal of Cleaner Production</i> , 2021 , 279, 123336	10.3	19
101	p-Xylene selectivity enhancement in methanol toluene alkylation by separation of catalysis function and shape-selective function. <i>Molecular Catalysis</i> , 2017 , 433, 242-249	3.3	18
100	An experimental study of CO ₂ gasification kinetics during activation of a spent tyre pyrolysis char. <i>Chemical Engineering Research and Design</i> , 2019 , 149, 129-137	5.5	18
99	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> , 2016 , 179, 71-78	7.1	18
98	Desulfurization of Spent Tire Pyrolysis Oil and Its Distillate via Combined Catalytic Oxidation using H ₂ O ₂ with Formic Acid and Selective Adsorption over Al ₂ O ₃ . <i>Energy & Fuels</i> , 2020 , 34, 6209-6219	4.1	17
97	Effect of ash preparation method on the sintering characteristics of ashes from combustion of coal and biomass blends. <i>Fuel</i> , 2016 , 186, 830-837	7.1	17
96	Characterisation of subfractions of asphaltenes extracted from an oil sand using NMR, DEPT and MALDI-TOF. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 168, 148-155	4.4	17
95	An experimental and kinetic study of canola oil transesterification catalyzed by mesoporous alumina supported potassium. <i>Applied Catalysis A: General</i> , 2017 , 530, 166-173	5.1	17
94	Characterisation of Asphaltenes Extracted from an Indonesian Oil Sand Using NMR, DEPT and MALDI-TOF. <i>Energy Procedia</i> , 2015 , 75, 847-852	2.3	17
93	Mixing narrow coarse and fine coal fractions [The maximum volume fraction of suspensions]. <i>Advanced Powder Technology</i> , 2013 , 24, 764-770	4.6	17
92	Structure sensitivity of selective catalytic reduction of NO with propylene over Cu-doped Ti _{0.5} Zr _{0.5} O ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 519-528	21.8	16
91	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> , 2019 , 257, 116099	7.1	16
90	A phenomenological investigation into the opposing effects of fluid flow on sonochemical activity at different frequency and power settings. 2. Fluid circulation at high frequencies. <i>Ultrasonics Sonochemistry</i> , 2014 , 21, 485-92	8.9	16
89	Effect of CaCO ₃ addition on ash sintering behaviour during K ₂ CO ₃ catalysed steam gasification of a Chinese lignite. <i>Applied Thermal Engineering</i> , 2017 , 111, 503-509	5.8	16
88	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> , 2021 , 323, 124585	11	16
87	Morphological and Mineralogical Characterization of Ash Deposits during Circulating Fluidized Bed Combustion of Zhundong Lignite. <i>Energy & Fuels</i> , 2019 , 33, 2122-2132	4.1	15
86	Effect of reaction conditions on methanol to gasoline conversion [A] over nanocrystal ZSM-5 zeolite. <i>Catalysis Today</i> , 2018 , 314, 107-113	5.3	15

85	An Experimental Study of Effect of Water on Ignition and Combustion Characteristics of Single Droplets of Glycerol. <i>Energy Procedia</i> , 2015 , 75, 578-583	2.3	15
84	Anodization process of Sn in oxalic acid at low applied voltages. <i>Electrochimica Acta</i> , 2012 , 59, 441-448	6.7	15
83	Rheological behaviour and stability characteristics of biochar-water slurry fuels: Effect of biochar particle size and size distribution. <i>Fuel Processing Technology</i> , 2017 , 156, 27-32	7.2	15
82	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> , 2017 , 139,	2.6	13
81	A techno-economic analysis of centralised and distributed processes of ammonia dissociation to hydrogen for fuel cell vehicle applications. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 14445-14455	6.7	13
80	Combustion and emission characteristics of simulated biogas from Two-Phase Anaerobic Digestion (T-PAD) in a spark ignition engine. <i>Applied Thermal Engineering</i> , 2018 , 129, 927-933	5.8	13
79	Process modelling of biomass conversion to biofuels with combined heat and power. <i>Bioresource Technology</i> , 2015 , 198, 309-15	11	12
78	Hydrogen production by methane cracking over Xiaolongtan lignite chars: The role of mineral matter. <i>Fuel</i> , 2016 , 183, 345-350	7.1	12
77	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> , 2021 , 46, 3695-3703	6.7	12
76	An Experimental Study of the Rheological Properties and Stability Characteristics of Biochar-Algae-Water Slurry Fuels. <i>Energy Procedia</i> , 2017 , 105, 125-130	2.3	11
75	Synthesis of inter-crystalline mesoporous ZSM-5 generated by self-interlocked MFI nanosheet stacks. <i>RSC Advances</i> , 2015 , 5, 63765-63776	3.7	11
74	Inhibition of Arabidopsis chloroplast α -amylase BAM3 by maltotriose suggests a mechanism for the control of transitory leaf starch mobilisation. <i>PLoS ONE</i> , 2017 , 12, e0172504	3.7	11
73	Experimental Study of Ignition and Combustion Characteristics of Single Particles of Zhundong Lignite. <i>Energy & Fuels</i> , 2018 , 32, 4221-4226	4.1	11
72	A thermodynamic analysis and economic evaluation of an integrated lignite upgrading and power generation system. <i>Applied Thermal Engineering</i> , 2018 , 135, 356-367	5.8	11
71	Effect of zirconium on the structure and activity of Cu/Ti1-xZrxO2 catalysts for selective catalytic reduction of NO with C3H6. <i>Catalysis Science and Technology</i> , 2012 , 2, 1711	5.5	11
70	Extinction limit and near-limit kinetics of lean premixed stretched H2-CO-air flames. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 17687-17694	6.7	11
69	An experimental study of rheological properties and stability characteristics of biochar-glycerol-water slurry fuels. <i>Fuel Processing Technology</i> , 2016 , 153, 37-42	7.2	11
68	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> , 2019 , 44, 14341-14350	6.7	10

67	Effect of n-butanol addition on the burning rate and soot characteristics during combustion of single droplets of dieselBiodiesel blends. <i>Fuel</i> , 2020 , 265, 117020	7.1	10
66	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> , 2018 , 11, 22-33	6.6	10
65	High pyrolysis temperature biochars reduce nitrogen availability and nitrous oxide emissions from an acid soil. <i>GCB Bioenergy</i> , 2018 , 10, 930-945	5.6	10
64	Semiempirical Correlation for Predicting Laminar Flame Speed of H ₂ /CO/Air Flames with CO ₂ and N ₂ Dilution. <i>Energy & Fuels</i> , 2017 , 31, 9957-9966	4.1	10
63	Pinewood pyrolysis occurs at lower temperatures following treatment with choline-amino acid ionic liquids. <i>Fuel</i> , 2019 , 236, 306-312	7.1	10
62	The application of spent tyre activated carbons as low-cost environmental pollution adsorbents: A technical review. <i>Journal of Cleaner Production</i> , 2021 , 312, 127566	10.3	10
61	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> , 2018 , 8, 1-12	6.2	9
60	The role of solvent preparation in soft template assisted synthesis of mesoporous alumina. <i>Microporous and Mesoporous Materials</i> , 2018 , 260, 9-16	5.3	9
59	Combustion and Emission Characteristics of a Spark Ignition Engine Fuelled with Biogas from Two-Phase Anaerobic Digestion (T-PAD). <i>Energy Procedia</i> , 2017 , 105, 137-142	2.3	9
58	Catalytic Performance of Coal Char for the Methane Reforming Process. <i>Chemical Engineering and Technology</i> , 2015 , 38, 68-74	2	9
57	Synthesis of novel Zn _{0.5} Mg _{0.5} Fe ₂ O ₄ @TiO ₂ nanotube arrays with enhanced photoelectrocatalytic properties. <i>RSC Advances</i> , 2015 , 5, 51308-51317	3.7	9
56	A Numerical Modeling Study of Ignition of Single Coal Particles Under Microgravity Conditions. <i>Combustion Science and Technology</i> , 2011 , 183, 1221-1235	1.5	9
55	Contrasting the Pyrolysis Behavior of Selected Biomass and the Effect of Lignin. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018 , 140,	2.6	8
54	Facile Design of Highly Effective Cu _x Co _{1-x} O _y Catalysts with Diverse Surface/Interface Structures toward NO Reduction by CO at Low Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 15459-15469	3.9	8
53	Utilization of LNG Cryogenic Energy in a Proposed Method for Inlet Air Cooling to Improve the Performance of a Combined Cycle. <i>Energy Procedia</i> , 2014 , 61, 2109-2113	2.3	8
52	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 & Fuels</i> , 2020 , 34, 188-198	4.1	8
51	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> , 2020 , 199, 106300	7.2	8
50	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> , 2018 , 140,	2.6	7

49	The modification of M41S materials: addition of metal clusters and nanoparticles. <i>New Journal of Chemistry</i> , 2010 , 34, 1286	3.6	7
48	A phenomenological investigation into potassium migration and ash sintering characteristics during p.f. combustion of lignites with and without K ₂ CO ₃ addition. <i>Applied Thermal Engineering</i> , 2019 , 148, 64-77	5.8	7
47	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> , 2021 , 407, 124781	12.8	7
46	Experimental and kinetic modelling studies of laminar flame speed in mixtures of partially dissociated NH ₃ in air. <i>Fuel</i> , 2020 , 278, 118428	7.1	6
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