

Xian Li

List of Publications by Year in descending order

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201385

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Reduced carbon emission estimates from fossil fuel combustion and cement production in China. <i>Nature</i> , 2015, 524, 335-338.	13.7	1,185
2	Determination of Physical Properties for the Binary System of 1-Ethyl-3-methylimidazolium Tetrafluoroborate + H ₂ O. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 760-764.	1.0	215
3	Kinetic study of biomass pellet pyrolysis by using distributed activation energy model and Coats Redfern methods and their comparison. <i>Bioresource Technology</i> , 2019, 294, 122099.	4.8	115
4	Alkali-Doped Lithium Orthosilicate Sorbents for Carbon Dioxide Capture. <i>ChemSusChem</i> , 2016, 9, 2480-2487.	3.6	71
5	Kinetic analyses and synergistic effects of CO ₂ co-gasification of low sulphur petroleum coke and biomass wastes. <i>Bioresource Technology</i> , 2018, 267, 54-62.	4.8	65
6	A gas-pressurized torrefaction method for biomass wastes. <i>Energy Conversion and Management</i> , 2018, 173, 29-36.	4.4	65
7	Mineral Transformation in Char and Its Effect on Coal Char Gasification Reactivity at High Temperatures, Part 1: Mineral Transformation in Char. <i>Energy & Fuels</i> , 2013, 27, 4545-4554.	2.5	63
8	Viscosity-temperature property of coal ash slag at the condition of entrained flow gasification: A review. <i>Fuel Processing Technology</i> , 2021, 215, 106751.	3.7	63
9	Correlations between the physicochemical properties of hydrochar and specific components of waste lettuce: Influence of moisture, carbohydrates, proteins and lipids. <i>Bioresource Technology</i> , 2019, 272, 482-488.	4.8	57
10	Preparation of Novel Li ₄ SiO ₄ Sorbents with Superior Performance at Low CO ₂ Concentration. <i>ChemSusChem</i> , 2016, 9, 1607-1613.	3.6	55
11	Pyrolysis kinetics of biomasses pretreated by gas-pressurized torrefaction. <i>Energy Conversion and Management</i> , 2019, 182, 117-125.	4.4	52
12	Transformations and Roles of Sodium Species with Different Occurrence Modes in Direct Liquefaction of Zhundong Coal from Xinjiang, Northwestern China. <i>Energy & Fuels</i> , 2015, 29, 5633-5639.	2.5	47
13	Effects of atmosphere on the oxidation state of iron and viscosity behavior of coal ash slag. <i>Fuel</i> , 2019, 243, 41-51.	3.4	47
14	Effect of chemical composition on the fusion behaviour of synthetic high-iron coal ash. <i>Fuel</i> , 2019, 253, 1465-1472.	3.4	46
15	The internal and external factor on coal ash slag viscosity at high temperatures, Part 2: Effect of residual carbon on slag viscosity. <i>Fuel</i> , 2015, 158, 976-982.	3.4	45
16	Combustion kinetics and mechanism of biomass pellet. <i>Energy</i> , 2020, 205, 117909.	4.5	45
17	Preparation of High-Grade Carbonaceous Materials Having Similar Chemical and Physical Properties from Various Low-Rank Coals by Degradative Solvent Extraction. <i>Energy & Fuels</i> , 2012, 26, 6897-6904.	2.5	42
18	Na&Ca removal from Zhundong coal by a novel CO ₂ -water leaching method and the ashing behavior of the leached coal. <i>Fuel</i> , 2017, 210, 8-14.	3.4	40

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19	Novel carbon-rich additives preparation by degradative solvent extraction of biomass wastes for coke-making. <i>Bioresource Technology</i> , 2016, 207, 85-91.	4.8	39
20	The formation of planar crystalline flocs of $\hat{\text{I}}^3\text{-FeOOH}$ in Fe(II) coagulation and the influence of humic acid. <i>Water Research</i> , 2020, 185, 116250.	5.3	38
21	Effects of Mineral Matter and Coal Blending on Gasification. <i>Energy & Fuels</i> , 2011, 25, 1127-1131.	2.5	36
22	Effect of V and Ni on Ash Fusion Temperatures. <i>Energy & Fuels</i> , 2013, 27, 7303-7313.	2.5	35
23	Modeling Study of Selenium Migration Behavior in Wet Flue Gas Desulfurization Spray Towers. <i>Environmental Science & Technology</i> , 2020, 54, 16128-16137.	4.6	34
24	Two-Stage Conversion of Low-Rank Coal or Biomass into Liquid Fuel under Mild Conditions. <i>Energy & Fuels</i> , 2015, 29, 3127-3133.	2.5	33
25	Mechanism study of degradative solvent extraction of biomass. <i>Fuel</i> , 2016, 165, 10-18.	3.4	31
26	Kinetics, thermodynamics and synergistic effects analyses of petroleum coke and biomass wastes during H ₂ O co-gasification. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 24502-24517.	3.8	31
27	Effect of Pressurized Torrefaction Pretreatments on Biomass CO ₂ Gasification. <i>Energy & Fuels</i> , 2015, 29, 7309-7316.	2.5	29
28	Correlation between the Combustion Behavior of Brown Coal Char and Its Aromaticity and Pore Structure. <i>Energy & Fuels</i> , 2016, 30, 3419-3427.	2.5	29
29	Gas-pressurized torrefaction of biomass wastes: Roles of pressure and secondary reactions. <i>Bioresource Technology</i> , 2020, 313, 123640.	4.8	29
30	Correlation between Char Gasification Characteristics at Different Stages and Microstructure of Char by Combining X-ray Diffraction and Raman Spectroscopy. <i>Energy & Fuels</i> , 2020, 34, 4162-4172.	2.5	29
31	Conversion of Biomass into High-Quality Bio-oils by Degradative Solvent Extraction Combined with Subsequent Pyrolysis. <i>Energy & Fuels</i> , 2017, 31, 3987-3994.	2.5	28
32	Selenium migration behaviors in wet flue gas desulfurization slurry and an in-situ treatment approach. <i>Chemical Engineering Journal</i> , 2020, 385, 123891.	6.6	28
33	Gas-pressurized torrefaction of biomass wastes: The optimization of pressurization condition and the pyrolysis of torrefied biomass. <i>Bioresource Technology</i> , 2021, 319, 124216.	4.8	27
34	The role of residual char on ash flow behavior, Part 1: The effect of graphitization degree of residual char on ash fusibility. <i>Fuel</i> , 2018, 234, 1173-1180.	3.4	26
35	Gas-pressurized torrefaction of biomass wastes: Co-gasification of gas-pressurized torrefied biomass with coal. <i>Bioresource Technology</i> , 2021, 321, 124505.	4.8	26
36	Novel findings in conversion mechanism of toluene as model compound of biomass waste tar in molten salt. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 134, 274-280.	2.6	25

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37	The role of residual char on ash flow behavior, Part 2: Effect of SiO ₂ /Al ₂ O ₃ on ash fusibility and carbothermal reaction. <i>Fuel</i> , 2019, 255, 115846.	3.4	25
38	Mineral Transformation in Char and Its Effect on Coal Char Gasification Reactivity at High Temperatures Part 3: Carbon Thermal Reaction. <i>Energy & Fuels</i> , 2014, 28, 3066-3073.	2.5	24
39	Moisture adsorption and spontaneous combustion characteristics of biomass wastes after degradative solvent extraction. <i>Fuel</i> , 2020, 266, 117109.	3.4	24
40	Torrefaction behavior of hot-pressed pellets prepared from leucaena wood. <i>Bioresource Technology</i> , 2021, 321, 124502.	4.8	24
41	Kinetic Study on Coal Char Combustion in a Microfluidized Bed. <i>Energy & Fuels</i> , 2017, 31, 3243-3252.	2.5	23
42	Insight into the Effects of Sodium Species with Different Occurrence Modes on the Structural Features of Residues Derived from Direct Liquefaction of Zhundong Coal by Multiple Techniques. <i>Energy & Fuels</i> , 2015, 29, 7142-7149.	2.5	21
43	Degradative solvent extraction of low-rank coals by the mixture of low molecular weight extract and solvent as recycled solvent. <i>Fuel Processing Technology</i> , 2018, 173, 48-55.	3.7	21
44	Thermal dissolution carbon enrichment treatment of biomass wastes: Supercapacitor electrode preparation using the residue. <i>Fuel Processing Technology</i> , 2020, 205, 106430.	3.7	21
45	Inappropriateness of the Standard Method in Sulfur Form Analysis of Char from Coal Pyrolysis. <i>Energy & Fuels</i> , 2012, 26, 5837-5842.	2.5	19
46	Upgrading and multistage separation of rice straw by degradative solvent extraction. <i>Journal of Fuel Chemistry and Technology</i> , 2015, 43, 422-428.	0.9	19
47	Preparation of activated carbon nanofibers using degradative solvent extraction products obtained from low-rank coal and their utilization in supercapacitors. <i>RSC Advances</i> , 2020, 10, 8172-8180.	1.7	19
48	Thermochemical conversion of lignocellulosic bio-waste via fast pyrolysis in molten salts. <i>Fuel</i> , 2020, 278, 118228.	3.4	19
49	Gas-pressurized torrefaction of biomass wastes: The effect of varied pressure on pyrolysis kinetics and mechanism of torrefied biomass. <i>Fuel</i> , 2020, 276, 118132.	3.4	18
50	Study on reduction characteristics of Fe species in coal ash under SNCR condition. <i>Fuel</i> , 2020, 277, 118231.	3.4	18
51	Synergistic effects during co-pyrolysis and liquefaction of biomass and lignite under syngas. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 2133-2140.	2.0	17
52	Enhancement of Gasification Reactivity of Low-Rank Coal through High-Temperature Solvent Treatment. <i>Energy & Fuels</i> , 2014, 28, 5690-5695.	2.5	16
53	Mechanism of Ca Additive Acting as a Deterrent to Na ₂ CO ₃ Deactivation during Catalytic Coal Gasification. <i>Energy & Fuels</i> , 2019, 33, 938-945.	2.5	16
54	Investigation of Slagging Characteristics on Middle and low temperature heat transfers by Burning High Sodium and Iron coal. <i>Combustion Science and Technology</i> , 2022, 194, 1768-1787.	1.2	16

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55	A novel CO ₂ -water leaching method for AAEM removal from coal: Suppression of PM formation and release during Zhundong coal combustion. <i>Fuel</i> , 2020, 271, 117689.	3.4	16
56	Yield prediction of "Thermal-dissolution based carbon enrichment" treatment on biomass wastes through coupled model of artificial neural network and AdaBoost. <i>Bioresource Technology</i> , 2022, 343, 126083.	4.8	16
57	Influence of different biomass ash additive on anthracite pyrolysis process and char gasification reactivity. <i>International Journal of Coal Science and Technology</i> , 2020, 7, 464-475.	2.7	15
58	Characterization of slag from anthracite gasification in moving bed slagging gasifier. <i>Fuel</i> , 2021, 292, 120390.	3.4	15
59	Degradative solvent extraction of demineralized and ion-exchanged low-rank coals. <i>Journal of Fuel Chemistry and Technology</i> , 2014, 42, 897-904.	0.9	14
60	Viscosity of Spinel Primary Phase Field Slags from Australian Brown Coals. <i>Energy & Fuels</i> , 2020, 34, 3041-3056.	2.5	14
61	Comparison study of fusibility between coal ash and synthetic ash. <i>Fuel Processing Technology</i> , 2021, 211, 106593.	3.7	14
62	The importance of coil conductivity and eddy current effects in the analysis of electromagnetic forming process. <i>High Voltage</i> , 2022, 7, 390-404.	2.7	13
63	Pretreatment of Petroleum Coke To Enhance the Reactivity of Catalytic Gasification in Fluidized Beds. <i>Energy & Fuels</i> , 2018, 32, 8115-8120.	2.5	12
64	The role of residual char on ash flow behavior, Part 3: Effect of Fe ₂ O ₃ content on ash fusibility and carbothermal reaction. <i>Fuel</i> , 2020, 280, 118705.	3.4	12
65	Molecular characteristics of the soluble components from three low-rank coals based on the analyses using GC/MS and GC/Q-TOF MS. <i>Fuel</i> , 2019, 254, 115602.	3.4	11
66	An updated acid dew point temperature estimation method for air-firing and oxy-fuel combustion processes. <i>Fuel Processing Technology</i> , 2016, 154, 204-209.	3.7	10
67	Preparation of carbon nanofiber with specific features by degradative solvent extraction product from biomass wastes. <i>Fuel</i> , 2019, 258, 116149.	3.4	10
68	Comparison of Kinetics and Activity of Ni-Based Catalysts for Benzyl Phenyl Ether Catalytic Hydrogenolysis. <i>Energy Technology</i> , 2019, 7, 1800694.	1.8	10
69	Gas-pressurized torrefaction of biomass wastes: Self-promoted deoxygenation of rice straw at low temperature. <i>Fuel</i> , 2022, 308, 122029.	3.4	10
70	Interaction between Coal and Biomass during Co-Gasification: A Perspective Based on the Separation of Blended Char. <i>Processes</i> , 2022, 10, 286.	1.3	9
71	Towards understanding the interactions between mild liquefaction solid product and Hami sub-bituminous coal during their co-pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 145, 104742.	2.6	8
72	Torrefaction under mechanical pressure of 10–70 MPa at 250 °C and its effect on pyrolysis behaviours of leucaena wood. <i>Bioresource Technology</i> , 2021, 338, 125503.	4.8	8

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73	Dispersion of modified carbon nanotubes in 1-butyl-3-methyl imidazolium tetrafluoroborate. Journal of Materials Science, 2006, 41, 3123-3126.	1.7	6
74	Influence of the Slag-Crucible Interaction on Coal Ash Fusion Behavior at High Temperatures. Energy & Fuels, 2020, 34, 3087-3099.	2.5	6
75	Thermal-dissolution based carbon enrichment-treatment of biomass wastes: Mechanism study of biomass pyrolysis in a highly-dispersed medium. Energy Conversion and Management, 2021, 238, 114151.	4.4	5
76	Feasibility study on co-processing of automobile shredder residue in coal-fired power plants via pyrolysis. Waste Management, 2022, 143, 135-143.	3.7	5
77	Degradative solvent extraction of low-rank coal: Role of water on pyrolysis mechanism of low-rank coal in a highly-dispersed medium. Carbon Resources Conversion, 2022, 5, 111-118.	3.2	5
78	Insight into molecular information of Huoilinguole lignite obtained by Fourier transform ion cyclotron resonance mass spectrometry and statistical methods. Rapid Communications in Mass Spectrometry, 2019, 33, 1107-1113.	0.7	2
79	Combustion Behavior of Low-Rank Coal Upgraded by Degradative Solvent Extraction. , 2016, , 31-37.		2
80	Upgrading of low-rank coal and biomass utilizing mild solvent treatment at around 350°C. , 2011, , .		1
81	Correction to Effect of Vanadium on the Petroleum Coke Ash Fusibility. Energy & Fuels, 2017, 31, 5710-5710.	2.5	1
82	In-Depth Experimental Study on Thermochemical Conversion of Furan in Molten Alkali Carbonates. Energy & Fuels, 2020, 34, 12724-12733.	2.5	1
83	Interactions of cationic surfactant cetyl-trimethyl ammonium bromide with ammonium nitrate: Surface and thermodynamic studies. Chinese Journal of Chemical Physics, 2021, 34, 480-486.	0.6	1
84	Boosted Thermal Storage Performance of LiOH·H ₂ O by Carbon Nanotubes Isolated Multilayered Graphene Oxide Frames. Advances in Materials Science and Engineering, 2022, 2022, 1-11.	1.0	1
85	Theoretical research on mercury-laden halogenated activated carbon adsorbent product stability. The Proceedings of the International Conference on Power Engineering (ICOPE), 2021, 2021.15, 2021-0167.	0.0	0