

Zhimin Lu

List of Publications by Year in descending order

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26
papers

649
citations

471509

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580821

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docs citations

26
times ranked

515
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracting Coal Ash Content from Laser-Induced Breakdown Spectroscopy (LIBS) Spectra by Multivariate Analysis. <i>Applied Spectroscopy</i> , 2011, 65, 1197-1201.	2.2	72
2	Multi-elemental analysis of fertilizer using laser-induced breakdown spectroscopy coupled with partial least squares regression. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1733.	3.0	55
3	Analyzing unburned carbon in fly ash using laser-induced breakdown spectroscopy with multivariate calibration method. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 473.	3.0	49
4	Development of a Rapid Coal Analyzer Using Laser-Induced Breakdown Spectroscopy (LIBS). <i>Applied Spectroscopy</i> , 2018, 72, 1225-1233.	2.2	47
5	Optimizing the binder percentage to reduce matrix effects for the LIBS analysis of carbon in coal. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 766-772.	3.0	46
6	A review on CFD simulation of biomass pyrolysis in fluidized bed reactors with emphasis on particle-scale models. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 162, 105433.	5.5	41
7	Rapidly Measuring Unburned Carbon in Fly Ash Using Molecular CN by Laser-Induced Breakdown Spectroscopy. <i>Energy & Fuels</i> , 2015, 29, 1257-1263.	5.1	33
8	Influence of Torrefaction on Single Particle Combustion of Wood. <i>Energy & Fuels</i> , 2016, 30, 5772-5778.	5.1	29
9	Feasibility study of gross calorific value, carbon content, volatile matter content and ash content of solid biomass fuel using laser-induced breakdown spectroscopy. <i>Fuel</i> , 2019, 258, 116150.	6.4	27
10	Effects of thermal conditions on char yield and char reactivity of woody biomass in stepwise pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 138, 211-217.	5.5	26
11	Evaluation of heavy metal element detection in municipal solid waste incineration fly ash based on LIBS sensor. <i>Waste Management</i> , 2020, 102, 492-498.	7.4	24
12	Optimizing analysis of coal property using laser-induced breakdown and near-infrared reflectance spectroscopies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 239, 118492.	3.9	24
13	Correction of Fe line interference for the measurement of unburned carbon in fly ash by LIBS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2418-2426.	3.0	22
14	Improved Measurement Performance of Inorganic Elements in Coal by Laser-Induced Breakdown Spectroscopy Coupled with Internal Standardization. <i>Plasma Science and Technology</i> , 2015, 17, 938-943.	1.5	18
15	Analysis of spectral properties for coal with different volatile contents by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 149, 249-255.	2.9	18
16	Experimental and modelling study on the influence of wood type, density, water content, and temperature on wood devolatilization. <i>Fuel</i> , 2020, 260, 116410.	6.4	18
17	Identifying laser-induced plasma emission spectra of particles in a gas-solid flow based on the standard deviation of intensity across an emission line. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1676-1682.	3.0	17
18	Comparative Study on Pyrolysis of Wet and Dry Torrefied Beech Wood and Wheat Straw. <i>Energy & Fuels</i> , 2019, 33, 3267-3274.	5.1	17

#	ARTICLE	IF	CITATIONS
19	Impact of KCl impregnation on single particle combustion of wood and torrefied wood. <i>Fuel</i> , 2017, 206, 684-689.	6.4	16
20	Heat-Transfer-Corrected Isothermal Model for Devolatilization of Thermally Thick Biomass Particles. <i>Energy & Fuels</i> , 2020, 34, 9620-9631.	5.1	16
21	Ionic liquid-based in situ product removal design exemplified for an acetone-butanol-ethanol fermentation. <i>Biotechnology Progress</i> , 2021, 37, e3183.	2.6	10
22	Influence of Torrefaction and Pelletizing of Sawdust on the Design Parameters of a Fixed Bed Gasifier. <i>Energies</i> , 2020, 13, 3018.	3.1	9
23	Effect of gasification reactions on biomass char conversion under pulverized fuel combustion conditions. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3919-3928.	3.9	7
24	Improving the LIBS Quantitative Analysis of Unburned Carbon in Fly Ash Based on the Optimization of Reference Value. <i>Energy & Fuels</i> , 2020, 34, 6483-6489.	5.1	4
25	Optimizing the quantitative analysis of solid biomass fuel properties using laser induced breakdown spectroscopy (LIBS) coupled with a kernel partial least squares (KPLS) model. <i>Analytical Methods</i> , 2021, 13, 5467-5477.	2.7	4
26	Kinetic modeling of NOx reduction with by-product gases reburning. , 2011, , .		0