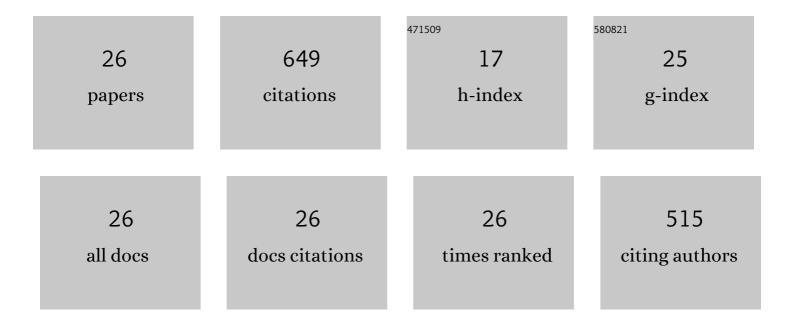
Zhimin Lu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Extracting Coal Ash Content from Laser-Induced Breakdown Spectroscopy (LIBS) Spectra by Multivariate Analysis. Applied Spectroscopy, 2011, 65, 1197-1201.	2.2	72
2	Multi-elemental analysis of fertilizer using laser-induced breakdown spectroscopy coupled with partial least squares regression. Journal of Analytical Atomic Spectrometry, 2010, 25, 1733.	3.0	55
3	Analyzing unburned carbon in fly ash using laser-induced breakdown spectroscopy with multivariate calibration method. Journal of Analytical Atomic Spectrometry, 2012, 27, 473.	3.0	49
4	Development of a Rapid Coal Analyzer Using Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2018, 72, 1225-1233.	2.2	47
5	Optimizing the binder percentage to reduce matrix effects for the LIBS analysis of carbon in coal. Journal of Analytical Atomic Spectrometry, 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. Journal of Analytical and Applied Pyrolysis, 2022, 162, 105433.	5.5	41
7	Rapidly Measuring Unburned Carbon in Fly Ash Using Molecular CN by Laser-Induced Breakdown Spectroscopy. Energy & Fuels, 2015, 29, 1257-1263.	5.1	33
8	Influence of Torrefaction on Single Particle Combustion of Wood. Energy & Fuels, 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. Fuel, 2019, 258, 116150.	6.4	27
10	Effects of thermal conditions on char yield and char reactivity of woody biomass in stepwise pyrolysis. Journal of Analytical and Applied Pyrolysis, 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. Waste Management, 2020, 102, 492-498.	7.4	24
12	Optimizing analysis of coal property using laser-induced breakdown and near-infrared reflectance spectroscopies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 239, 118492.	3.9	24
13	Correction of C–Fe line interference for the measurement of unburned carbon in fly ash by LIBS. Journal of Analytical Atomic Spectrometry, 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. Plasma Science and Technology, 2015, 17, 938-943.	1.5	18
15	Analysis of spectral properties for coal with different volatile contents by laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 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. Fuel, 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. Journal of Analytical Atomic Spectrometry, 2018, 33, 1676-1682.	3.0	17
18	Comparative Study on Pyrolysis of Wet and Dry Torrefied Beech Wood and Wheat Straw. Energy & Fuels, 2019, 33, 3267-3274.	5.1	17

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#	Article	IF	CITATIONS
19	Impact of KCl impregnation on single particle combustion of wood and torrefied wood. Fuel, 2017, 206, 684-689.	6.4	16
20	Heat-Transfer-Corrected Isothermal Model for Devolatilization of Thermally Thick Biomass Particles. Energy & Fuels, 2020, 34, 9620-9631.	5.1	16
21	Ionic liquidâ€based in situ product removal design exemplified for an acetone–butanol–ethanol fermentation. Biotechnology Progress, 2021, 37, e3183.	2.6	10
22	Influence of Torrefaction and Pelletizing of Sawdust on the Design Parameters of a Fixed Bed Gasifier. Energies, 2020, 13, 3018.	3.1	9
23	Effect of gasification reactions on biomass char conversion under pulverized fuel combustion conditions. Proceedings of the Combustion Institute, 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. Energy & Fuels, 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. Analytical Methods, 2021, 13, 5467-5477.	2.7	4
26	Kinetic modeling of NOx reduction with by-product gases reburning. , 2011, , .		0