

Jidong Lu

List of Publications by Year in descending order

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45
papers

1,265
citations

279798

23
h-index

361022

35
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all docs

45
docs citations

45
times ranked

721
citing authors

#	ARTICLE	IF	CITATIONS
1	Online optimization of boiler operation based on information integration and case-based reasoning. <i>International Journal of Green Energy</i> , 2023, 20, 15-27.	3.8	1
2	Modeling and optimization of the NO _x generation characteristics of the coal-fired boiler based on interpretable machine learning algorithm. <i>International Journal of Green Energy</i> , 2022, 19, 529-543.	3.8	7
3	Study on the evaluation of the aging grade for industrial heat-resistant steel by laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 139-147.	3.0	1
4	An image auxiliary method for laser-induced breakdown spectroscopy analysis of coal particle flow. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1126-1133.	3.0	7
5	Repeatability improvement in laser induced plasma emission of particle flow by aberration-diminished focusing. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 175, 106014.	2.9	13
6	Application of laser induced breakdown spectroscopy for direct and quick determination of fuel property of woody biomass pellets. <i>Renewable Energy</i> , 2021, 164, 1204-1214.	8.9	9
7	Comparison of the matrix effect in laser induced breakdown spectroscopy analysis of coal particle flow and coal pellets. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2473-2479.	3.0	9
8	Temporally and spatially resolved study of laser-induced plasma generated on coals with different volatile matter contents. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 180, 106195.	2.9	13
9	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
10	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
11	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
12	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
13	Improved measurement in quantitative analysis of coal properties using laser induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 810-818.	3.0	21
14	Coal Discrimination Analysis Using Tandem Laser-Induced Breakdown Spectroscopy and Laser Ablation Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 7003-7010.	6.5	25
15	Improved measurement of the calorific value of pulverized coal particle flow by laser-induced breakdown spectroscopy (LIBS). <i>Analytical Methods</i> , 2019, 11, 4471-4480.	2.7	26
16	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
17	Surface-enhanced laser-induced breakdown spectroscopy utilizing metallic target for direct analysis of particle flow. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 172-179.	3.0	16
18	A comparative model combining carbon atomic and molecular emissions based on partial least squares and support vector regression correction for carbon analysis in coal using LIBS. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 480-488.	3.0	32

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19	Combining laser-induced breakdown spectroscopy and Fourier-transform infrared spectroscopy for the analysis of coal properties. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 347-355.	3.0	39
20	A hybrid model combining wavelet transform and recursive feature elimination for running state evaluation of heat-resistant steel using laser-induced breakdown spectroscopy. <i>Analyst, The</i> , 2019, 144, 3736-3745.	3.5	18
21	Temporal-spatial resolved laser-induced breakdown spectroscopy of T91 steel of different aging grades. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 151, 1-11.	2.9	5
22	Quantitative Analysis of Calorific Value of Coal Based on Spectral Preprocessing by Laser-Induced Breakdown Spectroscopy (LIBS). <i>Energy & Fuels</i> , 2018, 32, 24-32.	5.1	52
23	Estimation of the mechanical properties of steel <i>via</i> LIBS combined with canonical correlation analysis (CCA) and support vector regression (SVR). <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 720-729.	3.0	27
24	Estimation of the aging grade of T91 steel by laser-induced breakdown spectroscopy coupled with support vector machines. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 140, 35-43.	2.9	16
25	Feature selection of laser-induced breakdown spectroscopy data for steel aging estimation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 150, 49-58.	2.9	30
26	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
27	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
28	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
29	Rapid Determination of the Gross Calorific Value of Coal Using Laser-Induced Breakdown Spectroscopy Coupled with Artificial Neural Networks and Genetic Algorithm. <i>Energy & Fuels</i> , 2017, 31, 3849-3855.	5.1	42
30	Characterization of Fly Ash Laser-Induced Plasma for Improving the On-line Measurement of Unburned Carbon in Gas–Solid Flow. <i>Energy & Fuels</i> , 2017, 31, 4681-4686.	5.1	17
31	Study on the Alkali Release from the Combustion Products of a Single Coal Particle by Laser Ignition. <i>Energy & Fuels</i> , 2017, 31, 4452-4460.	5.1	14
32	Correction of Ca–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
33	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
34	Correlation between aging grade of T91 steel and spectral characteristics of the laser-induced plasma. <i>Applied Surface Science</i> , 2015, 346, 302-310.	6.1	20
35	Elemental analysis of coal by tandem laser induced breakdown spectroscopy and laser ablation inductively coupled plasma time of flight mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 109, 44-50.	2.9	33
36	Optimization of laser-induced breakdown spectroscopy for coal powder analysis with different particle flow diameters. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 110, 146-150.	2.9	25

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37	Elucidation of C2 and CN formation mechanisms in laser-induced plasmas through correlation analysis of carbon isotopic ratio. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 100, 62-69.	2.9	53
38	Experimental Study of Laser-Induced Breakdown Spectroscopy (LIBS) for Direct Analysis of Coal Particle Flow. <i>Applied Spectroscopy</i> , 2014, 68, 672-679.	2.2	29
39	Carbon Isotope Separation and Molecular Formation in Laser-Induced Plasmas by Laser Ablation Molecular Isotopic Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 2899-2906.	6.5	69
40	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
41	Application of LIBS for direct determination of volatile matter content in coal. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2183.	3.0	74
42	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
43	Study of laser-induced breakdown spectroscopy to discriminate pearlitic/ferritic from martensitic phases. <i>Applied Surface Science</i> , 2011, 257, 3103-3110.	6.1	45
44	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
45	Effects of experimental parameters on elemental analysis of coal by laser-induced breakdown spectroscopy. <i>Optics and Laser Technology</i> , 2009, 41, 907-913.	4.6	82