

Zongyu Hou

List of Publications by Year in descending order

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48
papers

1,775
citations

279798

23
h-index

276875

41
g-index

48
all docs

48
docs citations

48
times ranked

596
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-induced breakdown spectroscopy in China. <i>Frontiers of Physics</i> , 2014, 9, 419-438.	5.0	185
2	Coal analysis by laser-induced breakdown spectroscopy: a tutorial review. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1047-1082.	3.0	135
3	Recent advances in laser-induced breakdown spectroscopy quantification: From fundamental understanding to data processing. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116385.	11.4	112
4	A hybrid quantification model and its application for coal analysis using laser induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 722-736.	3.0	87
5	A simplified spectrum standardization method for laser-induced breakdown spectroscopy measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2274.	3.0	86
6	Utilization of moderate cylindrical confinement for precision improvement of laser-induced breakdown spectroscopy signal. <i>Optics Express</i> , 2012, 20, A1011.	3.4	77
7	Major elements analysis in bituminous coals under different ambient gases by laser-induced breakdown spectroscopy with PLS modeling. <i>Frontiers of Physics</i> , 2012, 7, 708-713.	5.0	71
8	Signal quality improvement using cylindrical confinement for laser induced breakdown spectroscopy. <i>Optics Express</i> , 2013, 21, 15974.	3.4	71
9	Combination of cylindrical confinement and spark discharge for signal improvement using laser induced breakdown spectroscopy. <i>Optics Express</i> , 2014, 22, 12909.	3.4	64
10	A Rising Force for the World-Wide Development of Laser-Induced Breakdown Spectroscopy. <i>Plasma Science and Technology</i> , 2015, 17, 617-620.	1.5	59
11	Quantitative analysis of common elements in steel using a handheld $\hat{1}/4$ -LIBS instrument. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1905-1915.	3.0	58
12	Correction of self-absorption effect in calibration-free laser-induced breakdown spectroscopy (CF-LIBS) with blackbody radiation reference. <i>Analytica Chimica Acta</i> , 2019, 1058, 39-47.	5.4	58
13	Physical insights of cavity confinement enhancing effect in laser-induced breakdown spectroscopy. <i>Optics Express</i> , 2016, 24, 3055.	3.4	52
14	Quantitative carbon measurement in anthracite using laser-induced breakdown spectroscopy with binder. <i>Applied Optics</i> , 2012, 51, B22.	1.8	49
15	Effects of moisture content on coal analysis using laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 112, 23-33.	2.9	48
16	Application of spatial confinement for gas analysis using laser-induced breakdown spectroscopy to improve signal stability. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 922-928.	3.0	45
17	Investigation of intrinsic origins of the signal uncertainty for laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 155, 67-78.	2.9	44
18	Quantitative carbon analysis in coal by combining data processing and spatial confinement in laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 111, 102-107.	2.9	37

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19	Improving data stability and prediction accuracy in laser-induced breakdown spectroscopy by utilizing a combined atomic and ionic line algorithm. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 107-113.	3.0	33
20	Provenance classification of nephrite jades using multivariate LIBS: a comparative study. <i>Analytical Methods</i> , 2018, 10, 281-289.	2.7	27
21	Industrial at-line analysis of coal properties using laser-induced breakdown spectroscopy combined with machine learning. <i>Fuel</i> , 2021, 306, 121667.	6.4	27
22	Plasma modulation using beam shaping to improve signal quality for laser induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1671-1677.	3.0	25
23	Way-out for laser-induced breakdown spectroscopy. <i>Plasma Science and Technology</i> , 2020, 22, 070101.	1.5	25
24	Calibration-free analysis of immersed metal alloys using long-pulse-duration laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 157, 84-90.	2.9	24
25	Cement raw material quality analysis using laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2384-2390.	3.0	23
26	Improvement of laser induced breakdown spectroscopy signal using gas mixture. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 174, 105992.	2.9	19
27	Smartphone detection of minced beef adulteration. <i>Microchemical Journal</i> , 2021, 164, 106088.	4.5	19
28	Impacts of a collection system on laser-induced breakdown spectroscopy signal detection. <i>Applied Optics</i> , 2018, 57, 6120.	1.8	18
29	Classification of ginseng according to plant species, geographical origin, and age using laser-induced breakdown spectroscopy and hyperspectral imaging. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1704-1711.	3.0	18
30	A comparative study of nanoparticle-enhanced laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2274-2281.	3.0	16
31	Quantitative Analysis of Carbon Content in Bituminous Coal by Laser-Induced Breakdown Spectroscopy Using UV Laser Radiation. <i>Plasma Science and Technology</i> , 2015, 17, 928-932.	1.5	14
32	Compensation for the variation of total number density to improve signal repeatability for laser-induced breakdown spectroscopy. <i>Analytica Chimica Acta</i> , 2022, 1205, 339752.	5.4	14
33	Fast measurement of coking properties of coal using laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 191, 106406.	2.9	14
34	From big to strong: growth of the Asian laser-induced breakdown spectroscopy community. <i>Plasma Science and Technology</i> , 2019, 21, 030101.	1.5	13
35	Effect of laser beam shaping on the determination of manganese and chromium elements in steel samples using laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 163, 105747.	2.9	12
36	Validated ensemble variable selection of laser-induced breakdown spectroscopy data for coal property analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 111-119.	3.0	12

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37	Spectral knowledge-based regression for laser-induced breakdown spectroscopy quantitative analysis. <i>Expert Systems With Applications</i> , 2022, 205, 117756.	7.6	12
38	Analysis of element content in cement by Gaussian and flattop laser-induced breakdown spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 405102.	2.8	11
39	Understanding the laser-induced aerosol ablation of sub-micron liquid particles <i>via</i> size-resolved spectral and image analyses. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 2385-2393.	3.0	11
40	Incorporating domain knowledge into machine learning for laser-induced breakdown spectroscopy quantification. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 195, 106490.	2.9	10
41	Application of laser-induced breakdown spectroscopy and chemometrics for rapid identification of fire-retardant/resistant coatings from fire residues. <i>Construction and Building Materials</i> , 2022, 325, 126773.	7.2	9
42	Calibration curve and support vector regression methods applied for quantification of cement raw meal using laser-induced breakdown spectroscopy. <i>Plasma Science and Technology</i> , 2019, 21, 034003.	1.5	8
43	A data preprocessing method based on matrix matching for coal analysis by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 180, 106212.	2.9	7
44	Improvement of sample discrimination using laser-induced breakdown spectroscopy with multiple-setting spectra. <i>Analytica Chimica Acta</i> , 2021, 1184, 339053.	5.4	5
45	Insights into Enhanced Repeatability of Femtosecond Laser-Induced Plasmas. <i>ACS Omega</i> , 2020, 5, 30425-30435.	3.5	5
46	Evaluation of femtosecond laser-induced breakdown spectroscopy system as an offline coal analyzer. <i>Scientific Reports</i> , 2021, 11, 15968.	3.3	4
47	Homogeneous-material-based calibration method for correcting laser-induced breakdown spectroscopy measurement-error bias in the case of dust pollution. <i>Applied Optics</i> , 2017, 56, 9644.	1.8	1
48	Coal analysis. , 2020, , 473-498.		1