Zongyu Hou

List of Publications by Year
in descending order

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	Application of laser-induced breakdown spectroscopy and chemometrics for rapid identification of fire-retardant/resistant coatings from fire residues. Construction and Building Materials, 2022, 325, 126773.	7.2	9
2	Compensation for the variation of total number density to improve signal repeatability for laser-induced breakdown spectroscopy. Analytica Chimica Acta, 2022, 1205, 339752.	5.4	14
3	Fast measurement of coking properties of coal using laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 191, 106406.	2.9	14
4	Spectral knowledge-based regression for laser-induced breakdown spectroscopy quantitative analysis. Expert Systems With Applications, 2022, 205, 117756.	7.6	12
5	Incorporating domain knowledge into machine learning for laser-induced breakdown spectroscopy quantification. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 195, 106490.	2.9	10
6	Validated ensemble variable selection of laser-induced breakdown spectroscopy data for coal property analysis. Journal of Analytical Atomic Spectrometry, 2021, 36, 111-119.	3.0	12
7	Smartphone detection of minced beef adulteration. Microchemical Journal, 2021, 164, 106088.	4.5	19
8	A data preprocessing method based on matrix matching for coal analysis by laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 180, 106212.	2.9	7
9	Evaluation of femtosecond laser-induced breakdown spectroscopy system as an offline coal analyzer. Scientific Reports, 2021, 11, 15968.	3.3	4
10	Recent advances in laser-induced breakdown spectroscopy quantification: From fundamental understanding to data processing. TrAC - Trends in Analytical Chemistry, 2021, 143, 116385.	11.4	112
11	Improvement of sample discrimination using laser-induced breakdown spectroscopy with multiple-setting spectra. Analytica Chimica Acta, 2021, 1184, 339053.	5.4	5
12	Industrial at-line analysis of coal properties using laser-induced breakdown spectroscopy combined with machine learning. Fuel, 2021, 306, 121667.	6.4	27
13	Classification of ginseng according to plant species, geographical origin, and age using laser-induced breakdown spectroscopy and hyperspectral imaging. Journal of Analytical Atomic Spectrometry, 2021, 36, 1704-1711.	3.0	18
14	Effect of laser beam shaping on the determination of manganese and chromium elements in steel samples using laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 163, 105747.	2.9	12
15	Improvement of laser induced breakdown spectroscopy signal using gas mixture. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 174, 105992.	2.9	19
16	Plasma modulation using beam shaping to improve signal quality for laser induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2020, 35, 1671-1677.	3.0	25
17	A comparative study of nanoparticle-enhanced laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2020, 35, 2274-2281.	3.0	16
18	Coal analysis. , 2020, , 473-498.		1

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19	Way-out for laser-induced breakdown spectroscopy. Plasma Science and Technology, 2020, 22, 070101.	1.5	25
20	Insights into Enhanced Repeatability of Femtosecond Laser-Induced Plasmas. ACS Omega, 2020, 5, 30425-30435.	3.5	5
21	Analysis of element content in cement by Gaussian and flattop laser-induced breakdown spectroscopy. Journal Physics D: Applied Physics, 2019, 52, 405102.	2.8	11
22	Correction of self-absorption effect in calibration-free laser-induced breakdown spectroscopy (CF-LIBS) with blackbody radiation reference. Analytica Chimica Acta, 2019, 1058, 39-47.	5.4	58
23	Calibration-free analysis of immersed metal alloys using long-pulse-duration laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 157, 84-90.	2.9	24
24	Investigation of intrinsic origins of the signal uncertainty for laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 155, 67-78.	2.9	44
25	Coal analysis by laser-induced breakdown spectroscopy: a tutorial review. Journal of Analytical Atomic Spectrometry, 2019, 34, 1047-1082.	3.0	135
26	Understanding the laser-induced aerosol ablation of sub-micron liquid particles via size-resolved spectral and image analyses. Journal of Analytical Atomic Spectrometry, 2019, 34, 2385-2393.	3.0	11
27	From big to strong: growth of the Asian laser-induced breakdown spectroscopy community. Plasma Science and Technology, 2019, 21, 030101.	1.5	13
28	Calibration curve and support vector regression methods applied for quantification of cement raw meal using laser-induced breakdown spectroscopy. Plasma Science and Technology, 2019, 21, 034003.	1.5	8
29	Provenance classification of nephrite jades using multivariate LIBS: a comparative study. Analytical Methods, 2018, 10, 281-289.	2.7	27
30	Impacts of a collection system on laser-induced breakdown spectroscopy signal detection. Applied Optics, 2018, 57, 6120.	1.8	18
31	Quantitative analysis of common elements in steel using a handheld Î¼-LIBS instrument. Journal of Analytical Atomic Spectrometry, 2017, 32, 1905-1915.	3.0	58
32	Homogeneous-material-based calibration method for correcting laser-induced breakdown spectroscopy measurement-error bias in the case of dust pollution. Applied Optics, 2017, 56, 9644.	1.8	1
33	Cement raw material quality analysis using laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2016, 31, 2384-2390.	3.0	23
34	Physical insights of cavity confinement enhancing effect in laser-induced breakdown spectroscopy. Optics Express, 2016, 24, 3055.	3.4	52
35	A hybrid quantification model and its application for coal analysis using laser induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2016, 31, 722-736.	3.0	87
36	Quantitative Analysis of Carbon Content in Bituminous Coal by Laser-Induced Breakdown Spectroscopy Using UV Laser Radiation. Plasma Science and Technology, 2015, 17, 928-932.	1.5	14

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37	Application of spatial confinement for gas analysis using laser-induced breakdown spectroscopy to improve signal stability. Journal of Analytical Atomic Spectrometry, 2015, 30, 922-928.	3.0	45
38	Quantitative carbon analysis in coal by combining data processing and spatial confinement in laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 111, 102-107.	2.9	37
39	A Rising Force for the World-Wide Development of Laser-Induced Breakdown Spectroscopy. Plasma Science and Technology, 2015, 17, 617-620.	1.5	59
40	Effects of moisture content on coal analysis using laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 112, 23-33.	2.9	48
41	Combination of cylindrical confinement and spark discharge for signal improvement using laser induced breakdown spectroscopy. Optics Express, 2014, 22, 12909.	3.4	64
42	Laser-induced breakdown spectroscopy in China. Frontiers of Physics, 2014, 9, 419-438.	5.0	185
43	Improving data stability and prediction accuracy in laser-induced breakdown spectroscopy by utilizing a combined atomic and ionic line algorithm. Journal of Analytical Atomic Spectrometry, 2013, 28, 107-113.	3.0	33
44	Signal quality improvement using cylindrical confinement for laser induced breakdown spectroscopy. Optics Express, 2013, 21, 15974.	3.4	71
45	Utilization of moderate cylindrical confinement for precision improvement of laser-induced breakdown spectroscopy signal. Optics Express, 2012, 20, A1011.	3.4	77
46	Quantitative carbon measurement in anthracite using laser-induced breakdown spectroscopy with binder. Applied Optics, 2012, 51, B22.	1.8	49
47	Major elements analysis in bituminous coals under different ambient gases by laser-induced breakdown spectroscopy with PLS modeling. Frontiers of Physics, 2012, 7, 708-713.	5.0	71
48	A simplified spectrum standardization method for laser-induced breakdown spectroscopy measurements. Journal of Analytical Atomic Spectrometry, 2011, 26, 2274.	3.0	86