Meirong Dong

List of Publications by Year
in descending order

37 papers	1,060 citations	394421 19 h-index	395702 33 g-index
37 all docs	37 docs citations	37 times ranked	686 citing authors

#	Article	IF	Citations
1	Time-resolved LIBS of atomic and molecular carbon from coal in air, argon and helium. Journal of Analytical Atomic Spectrometry, 2012, 27, 2066.	3.0	96
2	Experimental study on the characteristics of molecular emission spectroscopy for the analysis of solid materials containing C and N. Optics Express, 2011, 19, 17021.	3.4	76
3	Application of LIBS for direct determination of volatile matter content in coal. Journal of Analytical Atomic Spectrometry, 2011, 26, 2183.	3.0	74
4	Extracting Coal Ash Content from Laser-Induced Breakdown Spectroscopy (LIBS) Spectra by Multivariate Analysis. Applied Spectroscopy, 2011, 65, 1197-1201.	2.2	72
5	Carbon Isotope Separation and Molecular Formation in Laser-Induced Plasmas by Laser Ablation Molecular Isotopic Spectrometry. Analytical Chemistry, 2013, 85, 2899-2906.	6.5	69
6	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
7	Elucidation of C2 and CN formation mechanisms in laser-induced plasmas through correlation analysis of carbon isotopic ratio. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 100, 62-69.	2.9	53
8	Quantitative Analysis of Calorific Value of Coal Based on Spectral Preprocessing by Laser-Induced Breakdown Spectroscopy (LIBS). Energy & Fuels, 2018, 32, 24-32.	5.1	52
9	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
10	Study of laser-induced breakdown spectroscopy to discriminate pearlitic/ferritic from martensitic phases. Applied Surface Science, 2011, 257, 3103-3110.	6.1	45
11	Elemental analysis of coal by tandem laser induced breakdown spectroscopy and laser ablation inductively coupled plasma time of flight mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 109, 44-50.	2.9	33
12	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. Journal of Analytical Atomic Spectrometry, 2019, 34, 480-488.	3.0	32
13	Feature selection of laser-induced breakdown spectroscopy data for steel aging estimation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 150, 49-58.	2.9	30
14	Experimental Study of Laser-Induced Breakdown Spectroscopy (LIBS) for Direct Analysis of Coal Particle Flow. Applied Spectroscopy, 2014, 68, 672-679.	2.2	29
15	Estimation of the mechanical properties of steel *via* LIBS combined with canonical correlation analysis (CCA) and support vector regression (SVR). Journal of Analytical Atomic Spectrometry, 2018, 33, 720-729.	3.0	27
16	Improved measurement of the calorific value of pulverized coal particle flow by laser-induced breakdown spectroscopy (LIBS). Analytical Methods, 2019, 11, 4471-4480.	2.7	26
17	Coal Discrimination Analysis Using Tandem Laser-Induced Breakdown Spectroscopy and Laser Ablation Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2020, 92, 7003-7010.	6.5	25
18	Improved measurement in quantitative analysis of coal properties using laser induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2020, 35, 810-818.	3.0	21

#	Article	IF	Citations
19	Correlation between aging grade of T91 steel and spectral characteristics of the laser-induced plasma. Applied Surface Science, 2015, 346, 302-310.	6.1	20
20	Spatially resolved laser-induced breakdown spectroscopy in laminar premixed methane–air flames. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 136, 8-15.	2.9	20
21	Accuracy improvement of quantitative analysis of unburned carbon content in fly ash using laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 131, 26-31.	2.9	18
22	A hybrid model combining wavelet transform and recursive feature elimination for running state evaluation of heat-resistant steel using laser-induced breakdown spectroscopy. Analyst, The, 2019, 144, 3736-3745.	3.5	18
23	Estimation of the aging grade of T91 steel by laser-induced breakdown spectroscopy coupled with support vector machines. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 140, 35-43.	2.9	16
24	Experimental investigation of combustion characteristics and NOx formation of coal particles using laser induced breakdown spectroscopy. Journal of the Energy Institute, 2020, 93, 52-61.	5.3	15
25	Study on the Alkali Release from the Combustion Products of a Single Coal Particle by Laser Ignition. Energy & Fuels, 2017, 31, 4452-4460.	5.1	14
26	A Study on the Characteristics of Carbon-Related Spectral Lines from a Laser-Induced Fly Ash Plasma. Plasma Science and Technology, 2015, 17, 625-631.	1.5	13
27	Temporally and spatially resolved study of laser-induced plasma generated on coals with different volatile matter contents. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 180, 106195.	2.9	13
28	Correlation between grade of pearlite spheroidization and laser induced spectra. Laser Physics, 2013, 23, 125702.	1.2	10
29	Estimating the Aging Grade of Heat-resistant Steel by Using Portable Laser-induced Breakdown Spectroscopy. Atomic Spectroscopy, 2021, 42, .	1.2	8
30	Study of kinetic characteristics of limestone decomposition under different atmospheres and heating conditions. Journal of Thermal Analysis and Calorimetry, 2017, 130, 2351-2358.	3.6	7
31	Modeling and optimization of the NO_X generation characteristics of the coal-fired boiler based on interpretable machine learning algorithm. International Journal of Green Energy, 2022, 19, 529-543.	3.8	7
32	An image auxiliary method for laser-induced breakdown spectroscopy analysis of coal particle flow. Journal of Analytical Atomic Spectrometry, 2022, 37, 1126-1133.	3.0	7
33	Temporal-spatial resolved laser-induced breakdown spectroscopy of T91 steel of different aging grades. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 151, 1-11.	2.9	5
34	Temperature measurement with compositional correction of gas mixture based on laser-induced plasma. Applied Optics, 2020, 59, 7638.	1.8	3
35	Study on the evaluation of the aging grade for industrial heat-resistant steel by laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2022, 37, 139-147.	3.0	1
36	Online optimization of boiler operation based on information integration and case-based reasoning. International Journal of Green Energy, 2023, 20, 15-27.	3.8	1

#	Article	IF	Citations
37	Simultaneous measurement of H2O concentration and effective absorption optical path length under unknown optical path length condition based on a single spectral line. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 270, 120774.	3.9	0