Lan-xiang Sun

List of Publications by Year
in descending order

31 papers	828 citations	687363 13 h-index	642732 23 g-index
32 all docs	32 docs citations	32 times ranked	478 citing authors

#	ARTICLE	IF	CITATIONS
1	Correction of self-absorption effect in calibration-free laser-induced breakdown spectroscopy by an internal reference method. Talanta, 2009, 79, 388-395.	5.5	182
2	Development in the application of laser-induced breakdown spectroscopy in recent years: A review. Frontiers of Physics, 2021, 16, 1.	5.0	97
3	In situ analysis of steel melt by double-pulse laser-induced breakdown spectroscopy with a Cassegrain telescope. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 112, 40-48.	2.9	73
4	Automatic estimation of varying continuum background emission in laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 278-287.	2.9	59
5	Recent progress on the application of LIBS for metallurgical online analysis in China. Frontiers of Physics, 2012, 7, 679-689.	5.0	52
6	A method for improving wavelet threshold denoising in laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 107, 32-44.	2.9	48
7	Wavelet denoising method for laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2013, 28, 1884.	3.0	45
8	Applications of laser-induced breakdown spectroscopy in the aluminum electrolysis industry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 142, 29-36.	2.9	36
9	An Image Auxiliary Method for Quantitative Analysis of Laser-Induced Breakdown Spectroscopy. Analytical Chemistry, 2018, 90, 4686-4694.	6.5	35
10	A Method for Resolving Overlapped Peaks in Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2013, 67, 1087-1097.	2.2	30
11	Deep learning with laser-induced breakdown spectroscopy (LIBS) for the classification of rocks based on elemental imaging. Applied Geochemistry, 2022, 136, 105135.	3.0	21
12	Selection of Spectral Data for Classification of Steels Using Laser-Induced Breakdown Spectroscopy. Plasma Science and Technology, 2015, 17, 964-970.	1.5	16
13	The effect of sample surface roughness on the microanalysis of microchip laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2020, 35, 357-365.	3.0	16
14	Laser induced breakdown spectroscopy online monitoring of laser cleaning quality on carbon fiber reinforced plastic. Optics and Laser Technology, 2022, 145, 107481.	4.6	16
15	In situ analysis of magnesium alloy using a standoff and double-pulse laser-induced breakdown spectroscopy system. Frontiers of Physics, 2016, 11, 1.	5.0	14
16	Application of Stand-off Double-Pulse Laser-Induced Breakdown Spectroscopy in Elemental Analysis of Magnesium Alloy. Plasma Science and Technology, 2015, 17, 676-681.	1.5	11
17	Progress in Research and Application of Micro-Laser-Induced Breakdown Spectroscopy. Chinese Journal of Analytical Chemistry, 2018, 46, 1518-1527.	1.7	10
18	A lightweight convolutional neural network model for quantitative analysis of phosphate ore slurry based on laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 0, , .	3.0	10

#	Article	IF	Citations
19	Microanalysis of molybdenum-copper stainless steel samples by picosecond laser-induced breakdown spectroscopy. Microchemical Journal, 2020, 158, 105267.	4.5	9
20	Reducing self-absorption effect by double-pulse combination in laser-induced breakdown spectroscopy. Microchemical Journal, 2022, 172, 106964.	4.5	9
21	Composition analysis of ceramic raw materials using laser-induced breakdown spectroscopy and autoencoder neural network. Analytical Methods, 2022, 14, 1320-1328.	2.7	9
22	Study of matrix effects in laser-induced breakdown spectroscopy by laser defocus and temporal resolution. Journal of Analytical Atomic Spectrometry, 2021, 36, 1977-1985.	3.0	7
23	Small-invasive determination of iron content in coating of galvanized steel sheets by laser-induced breakdown spectroscopy. Journal of Iron and Steel Research International, 2019, 26, 1137-1146.	2.8	6
24	A Uniform Modeling of Networked Control System with Random Delays. , 2006, , .		4
25	A design method of robust optimal PI controller with saturation link for different processes. , 2016, , .		3
26	Microanalysis of a ductile iron by microchip laser-induced breakdown spectroscopy. Plasma Science and Technology, 2021, 23, 105503.	1.5	3
27	Analysis of Ca in cement using laser-induced breakdown spectroscopy. , 2017, , .		2
28	A method derived from genetic algorithm, principal component analysis and artificial neural networks to enhance classification capability of laser-Induced breakdown spectroscopy. , 2017, , .		2
29	Quantitative analysis of multi-elements in steel samples by laser-induced breakdown spectroscopy. Proceedings of SPIE, 2009, , .	0.8	1
30	Study on robust stability inverse problem for linear systems. , 2014, , .		1
31	A design method of optimal PI controller with saturation characteristic for second-order processes. , 2015, , .		1