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	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
2	Reducing self-absorption effect by double-pulse combination in laser-induced breakdown spectroscopy. Microchemical Journal, 2022, 172, 106964.	4.5	9
3	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
4	Composition analysis of ceramic raw materials using laser-induced breakdown spectroscopy and autoencoder neural network. Analytical Methods, 2022, 14, 1320-1328.	2.7	9
5	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
6	Microanalysis of a ductile iron by microchip laser-induced breakdown spectroscopy. Plasma Science and Technology, 2021, 23, 105503.	1.5	3
7	Development in the application of laser-induced breakdown spectroscopy in recent years: A review. Frontiers of Physics, 2021, 16, 1.	5.0	97
8	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
9	Microanalysis of molybdenum-copper stainless steel samples by picosecond laser-induced breakdown spectroscopy. Microchemical Journal, 2020, 158, 105267.	4.5	9
10	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
11	An Image Auxiliary Method for Quantitative Analysis of Laser-Induced Breakdown Spectroscopy. Analytical Chemistry, 2018, 90, 4686-4694.	6.5	35
12	Applications of laser-induced breakdown spectroscopy in the aluminum electrolysis industry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 142, 29-36.	2.9	36
13	Progress in Research and Application of Micro-Laser-Induced Breakdown Spectroscopy. Chinese Journal of Analytical Chemistry, 2018, 46, 1518-1527.	1.7	10
14	Analysis of Ca in cement using laser-induced breakdown spectroscopy. , 2017, , .		2
15	A method derived from genetic algorithm, principal component analysis and artificial neural networks to enhance classification capability of laser-Induced breakdown spectroscopy. , 2017, , .		2
16	A design method of robust optimal PI controller with saturation link for different processes. , 2016, , .		3
17	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
18	Selection of Spectral Data for Classification of Steels Using Laser-Induced Breakdown Spectroscopy. Plasma Science and Technology, 2015, 17, 964-970.	1.5	16

#	Article	IF	Citations
19	A design method of optimal PI controller with saturation characteristic for second-order processes. , 2015, , .		1
20	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
21	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
22	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
23	Study on robust stability inverse problem for linear systems. , 2014, , .		1
24	Wavelet denoising method for laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2013, 28, 1884.	3.0	45
25	A Method for Resolving Overlapped Peaks in Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2013, 67, 1087-1097.	2.2	30
26	Recent progress on the application of LIBS for metallurgical online analysis in China. Frontiers of Physics, 2012, 7, 679-689.	5.0	52
27	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
28	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
29	Quantitative analysis of multi-elements in steel samples by laser-induced breakdown spectroscopy. Proceedings of SPIE, 2009, , .	0.8	1
30	A Uniform Modeling of Networked Control System with Random Delays. , 2006, , .		4
31	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