Xueshi Bai

List of Publications by Year
in descending order

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Version: 2024-02-01

33	904	394421	454955
papers	citations	19 h-index	30 g-index

33	33	33	756
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The assets of laser-induced breakdown spectroscopy (LIBS) for the future of heritage science. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 191, 106407.	2.9	21
2	Comparative study on quantitative carbon content mapping in archaeological ferrous metals with laser-induced plasma spectroscopy (LIBS) and nuclear reaction analysis (NRA) for 3D representation by LIBS. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 194, 106454.	2.9	1
3	Insights into the Blanching of Water-Damaged Varnish by Means of Spectral-Domain Optical Coherence Tomography. Studies in Conservation, 2020, , 1-10.	1.1	3
4	Impact of laser-induced breakdown spectroscopy implementation for the quantification of carbon content distribution in archaeological ferrous metals. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 172, 105964.	2.9	4
5	The first evaluation of diagenesis rate of ancient bones by laser-induced breakdown spectroscopy in archaeological context prior to radiocarbon dating. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 158, 105606.	2.9	6
6	Integrating LIBS LIF Raman into a single multi-spectroscopic mobile device for in situ cultural heritage analysis. , 2019, , .		6
7	Toward a multimodal fusion of layered cultural object images: complementarity of optical coherence tomography and terahertz time-domain imaging in the heritage field. Applied Optics, 2019, 58, 1281.	1.8	22
8	Terahertz time domain imaging and optical coherence tomography for the subsurface noninvasive inspection of a 21st dynasty Egyptian coffin. , 2019, , .		1
9	Laser-induced emission, fluorescence and Raman hybrid setup: A versatile instrument to analyze materials from cultural heritage. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 140, 44-53.	2.9	13
10	Influence of ns-laser wavelength in laser-induced breakdown spectroscopy for discrimination of painting techniques. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 134, 81-90.	2.9	13
11	LIBS-LIF-Raman: a new tool for the future E-RIHS. , 2017, , .		3
12	Direct determination of Ti content in sunscreens with laser-induced breakdown spectroscopy: Line selection method for high TiO 2 nanoparticle concentration. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 109, 9-15.	2.9	29
13	Atomistic Observation of Phase Transitions in Calcium Sulfates under Electron Irradiation. Journal of Physical Chemistry C, 2015, 119, 22244-22248.	3.1	11
14	Morphology and characteristics of laser-induced aluminum plasma in argon and in air: A comparative study. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 113, 158-166.	2.9	27
15	Characteristics of indirect laser-induced plasma from a thin film of oil on a metallic substrate. Frontiers of Physics, 2015, 10, 231-239.	5.0	18
16	On the performance of laser-induced breakdown spectroscopy for direct determination of trace metals in lubricating oils. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 99, 1-8.	2.9	45
17	Experimental determination of the temperature range of AlO molecular emission in laser-induced aluminum plasma in air. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 99, 193-200.	2.9	45
18	Experimental study of laser-induced plasma: Influence of laser fluence and pulse duration. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 87, 27-35.	2.9	49

#	Article	IF	Citations
19	Mapping nanoparticles injected into a biological tissue using laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 87, 168-174.	2.9	59
20	Convoluted effect of laser fluence and pulse duration on the property of a nanosecond laser-induced plasma into an argon ambient gas at the atmospheric pressure. Journal of Applied Physics, 2013, 113, .	2.5	38
21	Experimental investigation of the structure and the dynamics of nanosecond laser-induced plasma in 1-atm argon ambient gas. Applied Physics Letters, 2013, 103, .	3.3	28
22	Indirect laser-induced breakdown of transparent thin gel layer for sensitive trace element detection. Applied Physics Letters, 2013, 102, .	3.3	38
23	Mapping of native inorganic elements and injected nanoparticles in a biological organ with laser-induced plasma. Applied Physics Letters, 2012, 101, .	3.3	36
24	Effect of ablation photon energy on the distribution of molecular species in laser-induced plasma from polymer in air. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 73, 7-12.	2.9	9
25	Ultraviolet versus infrared: Effects of ablation laser wavelength on the expansion of laser-induced plasma into one-atmosphere argon gas. Journal of Applied Physics, 2012, 111, .	2.5	59
26	Generation and expansion of laser-induced plasma as a spectroscopic emission source. Frontiers of Physics, 2012, 7, 649-669.	5.0	53
27	Comparative measurements of mineral elements in milk powders with laser-induced breakdown spectroscopy and inductively coupled plasma atomic emission spectroscopy. Analytical and Bioanalytical Chemistry, 2011, 400, 3303-3313.	3.7	66
28	Molecular wakes for ultrashort laser pulses. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1036-1039.	5.1	2
29	Temporal and spatial dynamics of laser-induced aluminum plasma in argon background at atmospheric pressure: Interplay with the ambient gas. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 896-907.	2.9	96
30	Molecular-alignment-assisted high-energy supercontinuum pulse generation in air. Optics Letters, 2010, 35, 49.	3.3	19
31	Intense ultrafast light kick by rotational Raman wake in atmosphere. Applied Physics Letters, 2009, 95, 221502.	3.3	26
32	Elongation of femtosecond filament by molecular alignment in air. Optics Express, 2009, 17, 21060.	3.4	30
33	Attraction and repulsion of parallel femtosecond filaments in air. Physical Review A, 2009, 80, .	2.5	28