

# Xueshi Bai

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8755278/publications.pdf>

Version: 2024-02-01

33  
papers

904  
citations

394421

19  
h-index

454955

30  
g-index

33  
all docs

33  
docs citations

33  
times ranked

756  
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal and spatial dynamics of laser-induced aluminum plasma in argon background at atmospheric pressure: Interplay with the ambient gas. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 896-907.	2.9	96
2	Comparative measurements of mineral elements in milk powders with laser-induced breakdown spectroscopy and inductively coupled plasma atomic emission spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3303-3313.	3.7	66
3	Ultraviolet versus infrared: Effects of ablation laser wavelength on the expansion of laser-induced plasma into one-atmosphere argon gas. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	59
4	Mapping nanoparticles injected into a biological tissue using laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 87, 168-174.	2.9	59
5	Generation and expansion of laser-induced plasma as a spectroscopic emission source. <i>Frontiers of Physics</i> , 2012, 7, 649-669.	5.0	53
6	Experimental study of laser-induced plasma: Influence of laser fluence and pulse duration. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 87, 27-35.	2.9	49
7	On the performance of laser-induced breakdown spectroscopy for direct determination of trace metals in lubricating oils. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 1-8.	2.9	45
8	Experimental determination of the temperature range of AlO molecular emission in laser-induced aluminum plasma in air. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 193-200.	2.9	45
9	Convoluting 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. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	38
10	Indirect laser-induced breakdown of transparent thin gel layer for sensitive trace element detection. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	38
11	Mapping of native inorganic elements and injected nanoparticles in a biological organ with laser-induced plasma. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	36
12	Elongation of femtosecond filament by molecular alignment in air. <i>Optics Express</i> , 2009, 17, 21060.	3.4	30
13	Direct determination of Ti content in sunscreens with laser-induced breakdown spectroscopy: Line selection method for high TiO <sub>2</sub> nanoparticle concentration. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 109, 9-15.	2.9	29
14	Attraction and repulsion of parallel femtosecond filaments in air. <i>Physical Review A</i> , 2009, 80, .	2.5	28
15	Experimental investigation of the structure and the dynamics of nanosecond laser-induced plasma in 1-atm argon ambient gas. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	28
16	Morphology and characteristics of laser-induced aluminum plasma in argon and in air: A comparative study. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 113, 158-166.	2.9	27
17	Intense ultrafast light kick by rotational Raman wake in atmosphere. <i>Applied Physics Letters</i> , 2009, 95, 221502.	3.3	26
18	Toward a multimodal fusion of layered cultural object images: complementarity of optical coherence tomography and terahertz time-domain imaging in the heritage field. <i>Applied Optics</i> , 2019, 58, 1281.	1.8	22

#	ARTICLE	IF	CITATIONS
19	The assets of laser-induced breakdown spectroscopy (LIBS) for the future of heritage science. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 191, 106407.	2.9	21
20	Molecular-alignment-assisted high-energy supercontinuum pulse generation in air. <i>Optics Letters</i> , 2010, 35, 49.	3.3	19
21	Characteristics of indirect laser-induced plasma from a thin film of oil on a metallic substrate. <i>Frontiers of Physics</i> , 2015, 10, 231-239.	5.0	18
22	Influence of ns-laser wavelength in laser-induced breakdown spectroscopy for discrimination of painting techniques. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 134, 81-90.	2.9	13
23	Laser-induced emission, fluorescence and Raman hybrid setup: A versatile instrument to analyze materials from cultural heritage. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 140, 44-53.	2.9	13
24	Atomistic Observation of Phase Transitions in Calcium Sulfates under Electron Irradiation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22244-22248.	3.1	11
25	Effect of ablation photon energy on the distribution of molecular species in laser-induced plasma from polymer in air. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 73, 7-12.	2.9	9
26	The first evaluation of diagenesis rate of ancient bones by laser-induced breakdown spectroscopy in archaeological context prior to radiocarbon dating. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 158, 105606.	2.9	6
27	Integrating LIBS LIF Raman into a single multi-spectroscopic mobile device for in situ cultural heritage analysis. , 2019, , .		6
28	Impact of laser-induced breakdown spectroscopy implementation for the quantification of carbon content distribution in archaeological ferrous metals. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 172, 105964.	2.9	4
29	LIBS-LIF-Raman: a new tool for the future E-RIHS. , 2017, , .		3
30	Insights into the Blanching of Water-Damaged Varnish by Means of Spectral-Domain Optical Coherence Tomography. <i>Studies in Conservation</i> , 2020, , 1-10.	1.1	3
31	Molecular wakes for ultrashort laser pulses. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 1036-1039.	5.1	2
32	Terahertz time domain imaging and optical coherence tomography for the subsurface noninvasive inspection of a 21st dynasty Egyptian coffin. , 2019, , .		1
33	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. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 194, 106454.	2.9	1