

Stefano Pagnotta

List of Publications by Year in descending order

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papers

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citations

304743

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395702

33
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68
all docs

68
docs citations

68
times ranked

968
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of laser-induced breakdown spectroscopy in cultural heritage and archaeology: a critical review. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 81-103.	3.0	118
2	Industrial applications of laser-induced breakdown spectroscopy: a review. <i>Analytical Methods</i> , 2020, 12, 1014-1029.	2.7	72
3	An artificial neural network approach to laser-induced breakdown spectroscopy quantitative analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 52-58.	2.9	68
4	Classification of wrought aluminum alloys by Artificial Neural Networks evaluation of Laser Induced Breakdown Spectroscopy spectra from aluminum scrap samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 134, 52-57.	2.9	58
5	A hybrid calibration-free/artificial neural networks approach to the quantitative analysis of LIBS spectra. <i>Applied Physics B: Lasers and Optics</i> , 2015, 118, 353-360.	2.2	56
6	Analytical and mathematical methods for revealing hidden details in ancient manuscripts and paintings: A review. <i>Journal of Advanced Research</i> , 2019, 17, 31-42.	9.5	50
7	From Calibration-Free to Fundamental Parameters Analysis: A comparison of three recently proposed approaches. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 124, 40-46.	2.9	44
8	Multivariate calibration in Laser-Induced Breakdown Spectroscopy quantitative analysis: The dangers of a "black box" approach and how to avoid them. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 144, 46-54.	2.9	42
9	Shock Waves in Laser-Induced Plasmas. <i>Atoms</i> , 2019, 7, 57.	1.6	39
10	Extracting Time-Resolved Information from Time-Integrated Laser-Induced Breakdown Spectra. <i>Journal of Spectroscopy</i> , 2014, 2014, 1-5.	1.3	36
11	Fast quantitative elemental mapping of highly inhomogeneous materials by micro-Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 146, 9-15.	2.9	36
12	Determination of Ash Content of coal by Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 155, 123-126.	2.9	36
13	Micro-Laser-Induced Breakdown Spectroscopy (Micro-LIBS) Study on Ancient Roman Mortars. <i>Applied Spectroscopy</i> , 2017, 71, 721-727.	2.2	35
14	Green-synthesized silver nanoparticles for Nanoparticle-Enhanced Laser Induced Breakdown Spectroscopy (NELIBS) using a mobile instrument. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 141, 53-58.	2.9	31
15	Classification of sedimentary and igneous rocks by laser induced breakdown spectroscopy and nanoparticle-enhanced laser induced breakdown spectroscopy combined with principal component analysis and graph theory. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 158, 105622.	2.9	30
16	Application of Laser Induced Breakdown Spectroscopy to the identification of emeralds from different synthetic processes. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 102, 48-51.	2.9	29
17	Comparison of brass alloys composition by laser-induced breakdown spectroscopy and self-organizing maps. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 103-104, 70-75.	2.9	28
18	Laser-based continuous monitoring and resolution of steel grades in sequence casting machines. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 112, 1-5.	2.9	27

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19	Three-dimensional compositional mapping using double-pulse micro-laser-induced breakdown spectroscopy technique. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 127, 1-6.	2.9	26
20	Archaeometric study of mortars from the Pisa's Cathedral Square (Italy). <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 126, 322-331.	5.0	24
21	Identification of inorganic dyeing mordant in textiles by surface-enhanced laser-induced breakdown spectroscopy. <i>Microchemical Journal</i> , 2018, 139, 230-235.	4.5	23
22	Elemental and mineralogical imaging of a weathered limestone rock by double-pulse micro-Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 143, 91-97.	2.9	23
23	Mineralogical, petrographic and physical-mechanical study of Roman construction materials from the Maritime Theatre of Hadrian's Villa (Rome, Italy). <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 127, 264-276.	5.0	23
24	Exploiting Self-Absorption for Plasma Characterization in Laser-Induced Breakdown Spectroscopy Experiments: A Comparison of Two Recent Approaches. <i>Analytical Chemistry</i> , 2019, 91, 8595-8601.	6.5	22
25	Application of Graph Theory to unsupervised classification of materials by Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 118, 40-44.	2.9	21
26	Spectroscopic analysis of bones for forensic studies. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 70-75.	2.9	19
27	The shining brightness of daylight fluorescent pigments: Raman and SERS study of a modern class of painting materials. <i>Microchemical Journal</i> , 2020, 152, 104292.	4.5	19
28	Construction and comparison of 3D multi-source multi-band models for cultural heritage applications. <i>Journal of Cultural Heritage</i> , 2018, 34, 261-267.	3.3	18
29	A new approach to non-linear multivariate calibration in laser-induced breakdown spectroscopy analysis of silicate rocks. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 166, 105804.	2.9	16
30	Laser-Induced Breakdown Spectroscopy analysis of the limestone Nuragic statues from Mont'e Prama site (Sardinia, Italy). <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 149, 62-70.	2.9	15
31	Improvement of the performances of a commercial hand-held laser-induced breakdown spectroscopy instrument for steel analysis using multiple artificial neural networks. <i>Review of Scientific Instruments</i> , 2020, 91, 073111.	1.3	13
32	X-Ray Fluorescence Analysis of XII-XIV Century Italian Gold Coins. <i>Journal of Archaeology</i> , 2014, 2014, 1-6.	0.5	12
33	Effect of Marble Waste Powder as a Binder Replacement on the Mechanical Resistance of Cement Mortars. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4481.	2.5	12
34	High-resolution three-dimensional compositional imaging by double-pulse laser-induced breakdown spectroscopy. <i>Journal of Instrumentation</i> , 2016, 11, C08002-C08002.	1.2	11
35	Laser-Induced Breakdown Spectroscopy elemental mapping of the construction material from the Smederevo Fortress (Republic of Serbia). <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 181, 106219.	2.9	11
36	X-ray fluorescence analysis on a group of coins from the ancient roman city of <i>Tridentum</i> (Trento, Italy). <i>X-Ray Spectrometry</i> , 2014, 43, 370-374.	1.4	10

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37	A multidisciplinary approach to the investigation of "La Caverna dell'Antimateria" (1958-1959) by Pinot Gallizio. <i>Heritage Science</i> , 2014, 2, .	2.3	10
38	Walking in the Streets of Pisa to Discover the Stones Used in the Middle Ages. <i>Geoheritage</i> , 2019, 11, 1631-1641.	2.8	10
39	Determination of electron temperature temporal evolution in laser-induced plasmas through Independent Component Analysis and 3D Boltzmann plot. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 135, 48-53.	2.9	9
40	Multi-technique characterization of madder lakes: A comparison between non- and micro-destructive methods. <i>Journal of Cultural Heritage</i> , 2018, 33, 208-212.	3.3	9
41	Investigating double pulse nanoparticle enhanced laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 167, 105845.	2.9	9
42	X-Ray Fluorescence Analysis and Self-Organizing Maps Classification of the Etruscan Gold Coin Collection at the Monetiere of Florence. <i>Applied Spectroscopy</i> , 2017, 71, 817-822.	2.2	8
43	Quantitative analysis of major components of mineral particulate matter by calibration free laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 171, 105918.	2.9	8
44	The chemical-physical knowledge before the restoration: the case of "The Plague in Lucca", a masterpiece of Lorenzo Viani (1882-1936). <i>Heritage Science</i> , 2015, 3, .	2.3	7
45	Direct analysis of anthraquinone dyed textiles by Surface Enhanced Raman Spectroscopy and Ag nanoparticles obtained by pulsed laser ablation. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	7
46	Electroless deposited silver dendrites for SERS identification of natural dyes on laboratory-dyed and historic textiles. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	6
47	Determining the composition of bronze alloys by means of high-dimensional feature selection and Artificial Neural Networks. , 2015, , .		5
48	Provenance of marbles used for building the internal spiral staircase of the bell tower of St. Nicholas Church (Pisa, Italy). <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	5
49	Analysis of the middle Neolithic trichrome pottery: Characterization of the decoration using X-Ray fluorescence and Raman spectroscopy. <i>Journal of Archaeological Science: Reports</i> , 2019, 24, 192-197.	0.5	5
50	Analysis of Diagnostic Images of Artworks and Feature Extraction: Design of a Methodology. <i>Journal of Imaging</i> , 2021, 7, 53.	3.0	5
51	Geopolymers as a potential material for preservation and restoration of Urban Build Heritage: an overview. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 609, 012057.	0.3	5
52	A New Infrared True-Color Approach for Visible-Infrared Multispectral Image Analysis. <i>Journal on Computing and Cultural Heritage</i> , 2019, 12, 1-11.	2.1	4
53	The Crystallization Effect of Sodium Sulfate on Some Italian Marbles, Calcarenites and Sandstones. <i>Heritage</i> , 2022, 5, 1449-1461.	1.9	4
54	Social and technological changes in the ceramic production of the Northern Levant during the LBA/IA transition: New evidence about the Sea People issue through archaeometry. <i>Journal of Anthropological Archaeology</i> , 2019, 56, 101087.	1.6	3

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55	Self-calibrated methods for LIBS quantitative analysis. , 2020, , 561-580.		2
56	Image analysis applied to the planning of a canvas painting restoration intervention. Ge-Conservacion, 2020, 18, 339-346.	0.2	2
57	Application of Graph Theory to the elaboration of personal genomic data for genealogical research. PeerJ Computer Science, 0, 1, e27.	4.5	2
58	Marbles from Castagneto Carducci Area (Tuscany, Italy). IOP Conference Series: Earth and Environmental Science, 2021, 906, 012122.	0.3	2
59	Smartphone application for ancient mortars identification developed by a multi-analytical approach. Journal of Archaeological Science: Reports, 2022, 43, 103433.	0.5	2
60	The Cultural Heritage of "Black Stones" (Lapis Aequipondus/Martyrum) of Leopardi's Child Home (Recanati, Italy). Materials, 2022, 15, 3828.	2.9	2
61	A stochastic model of the process of sequence casting of steel, taking into account imperfect mixing. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	1
62	Panchina Calcarenite: A Building Material from Tuscany Coast. IOP Conference Series: Earth and Environmental Science, 0, 609, 012077.	0.3	1
63	A fast and user-friendly software for quantitative chemical analysis through XRF. IOP Conference Series: Earth and Environmental Science, 0, 609, 012058.	0.3	0
64	The Source Materials for Lime Production in the Monte Pisano Area (NW Tuscany, Italy). IOP Conference Series: Earth and Environmental Science, 0, 609, 012078.	0.3	0
65	Image Segmentation for Reflected-Light Microscopy: Some Theoretical Approaches. IOP Conference Series: Earth and Environmental Science, 2021, 906, 012121.	0.3	0