

Samuel Moncayo

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,183
citations

361413

20
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

1088
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of the recent advances and applications of LIBS-based imaging. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 151, 41-53.	2.9	138
2	Qualitative and quantitative analysis of milk for the detection of adulteration by Laser Induced Breakdown Spectroscopy (LIBS). <i>Food Chemistry</i> , 2017, 232, 322-328.	8.2	120
3	Elemental imaging using laser-induced breakdown spectroscopy: A new and promising approach for biological and medical applications. <i>Coordination Chemistry Reviews</i> , 2018, 358, 70-79.	18.8	108
4	Classification of red wine based on its protected designation of origin (PDO) using Laser-induced Breakdown Spectroscopy (LIBS). <i>Talanta</i> , 2016, 158, 185-191.	5.5	92
5	Evaluation of supervised chemometric methods for sample classification by Laser Induced Breakdown Spectroscopy. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015, 146, 354-364.	3.5	77
6	Megapixel multi-elemental imaging by Laser-Induced Breakdown Spectroscopy, a technology with considerable potential for paleoclimate studies. <i>Scientific Reports</i> , 2017, 7, 5080.	3.3	68
7	Exploration of megapixel hyperspectral LIBS images using principal component analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 210-220.	3.0	67
8	Rapid identification and discrimination of bacterial strains by laser induced breakdown spectroscopy and neural networks. <i>Talanta</i> , 2014, 121, 65-70.	5.5	57
9	Elemental imaging by laser-induced breakdown spectroscopy for the geological characterization of minerals. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1345-1353.	3.0	57
10	Application of Laser-Induced Breakdown Spectroscopy (LIBS) and Neural Networks to Olive Oils Analysis. <i>Applied Spectroscopy</i> , 2013, 67, 1064-1072.	2.2	56
11	Multi-elemental imaging of paraffin-embedded human samples by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 133, 40-44.	2.9	49
12	Glycoprotein A and B Height-to-Width Ratios as Obesity-Independent Novel Biomarkers of Low-Grade Chronic Inflammation in Women with Polycystic Ovary Syndrome (PCOS). <i>Journal of Proteome Research</i> , 2019, 18, 4038-4045.	3.7	36
13	Discrimination of human bodies from bones and teeth remains by Laser Induced Breakdown Spectroscopy and Neural Networks. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 21-25.	2.9	32
14	Critical aspects of data analysis for quantification in laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 140, 54-64.	2.9	30
15	Evaluation of a compact VUV spectrometer for elemental imaging by laser-induced breakdown spectroscopy: application to mine core characterization. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1527-1534.	3.0	25
16	Investigation of signal extraction in the frame of laser induced breakdown spectroscopy imaging. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 155, 127-133.	2.9	25
17	Quantitative elemental imaging of heterogeneous catalysts using laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 133, 45-51.	2.9	23
18	Characterization of foreign materials in paraffin-embedded pathological specimens using in situ multi-elemental imaging with laser spectroscopy. <i>Modern Pathology</i> , 2018, 31, 378-384.	5.5	23

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19	Mg/Ca ratios measured by laser induced breakdown spectroscopy (LIBS): a new approach to decipher environmental conditions. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1913-1919.	3.0	22
20	Postprandial inflammatory responses after oral glucose, lipid and protein challenges: Influence of obesity, sex and polycystic ovary syndrome. <i>Clinical Nutrition</i> , 2020, 39, 876-885.	5.0	20
21	Determination of the postmortem interval by Laser Induced Breakdown Spectroscopy using swine skeletal muscles. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 88, 186-191.	2.9	15
22	Identification and Discrimination of Brands of Fuels by Gas Chromatography and Neural Networks Algorithm in Forensic Research. <i>Journal of Analytical Methods in Chemistry</i> , 2016, 2016, 1-7.	1.6	12
23	Time-resolved study of the plasma produced from animal muscle tissue using a Nd:YAG laser. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1884-1891.	3.0	8
24	Plume Dynamics of Laser-Produced Swine Muscle Tissue Plasma. <i>Applied Spectroscopy</i> , 2016, 70, 1228-1238.	2.2	7
25	LIBS imaging applications. , 2020, , 329-346.		7
26	Corona discharge induced plasma spectroscopy (CDIPS) for quantitative analysis of gas mixtures. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2053-2059.	3.0	5
27	Calculation of catalyst crust thickness from full elemental laser-induced breakdown spectroscopy images. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 304, 012016.	0.6	4