

# 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  | 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        |
| 2  | LIBS imaging applications. , 2020, , 329-346.  |      | 7         |
| 3  | 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        |
| 4  | 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        |
| 5  | 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       |
| 6  | 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         |
| 7  | 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       |
| 8  | 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        |
| 9  | Exploration of megapixel hyperspectral LIBS images using principal component analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 210-220.   | 3.0  | 67        |
| 10 | 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        |
| 11 | 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         |
| 12 | 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        |
| 13 | 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       |
| 14 | 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        |
| 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 | 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        |
| 17 | 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        |
| 18 | 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        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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         |
| 21 | Plume Dynamics of Laser-Produced Swine Muscle Tissue Plasma. <i>Applied Spectroscopy</i> , 2016, 70, 1228-1238.  | 2.2 | 7         |
| 22 | 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        |
| 23 | 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        |
| 24 | 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        |
| 25 | 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        |
| 26 | 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        |
| 27 | 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        |