

Giorgio S Senesi

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,686
citations

331670

21
h-index

377865

34
g-index

35
all docs

35
docs citations

35
times ranked

1650
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser Induced Breakdown Spectroscopy for Elemental Analysis in Environmental, Cultural Heritage and Space Applications: A Review of Methods and Results. <i>Sensors</i> , 2010, 10, 7434-7468.	3.8	235
2	Stable plasma-deposited acrylic acid surfaces for cell culture applications. <i>Biomaterials</i> , 2005, 26, 3831-3841.	11.4	176
3	Laser-Induced Breakdown Spectroscopy (LIBS) applied to terrestrial and extraterrestrial analogue geomaterials with emphasis to minerals and rocks. <i>Earth-Science Reviews</i> , 2014, 139, 231-267.	9.1	115
4	Homogeneous and Micro-Patterned Plasma-Deposited PEO-Like Coatings for Biomedical Surfaces. <i>Plasma Processes and Polymers</i> , 2004, 1, 63-72.	3.0	103
5	Field-portable and handheld laser-induced breakdown spectroscopy: Historical review, current status and future prospects. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 175, 106013.	2.9	90
6	Laser-Induced Breakdown Spectroscopy – A geochemical tool for the 21st century. <i>Applied Geochemistry</i> , 2021, 128, 104929.	3.0	86
7	Laser-induced breakdown spectroscopy (LIBS) to measure quantitatively soil carbon with emphasis on soil organic carbon. A review. <i>Analytica Chimica Acta</i> , 2016, 938, 7-17.	5.4	84
8	Recent advances and future trends in LIBS applications to agricultural materials and their food derivatives: An overview of developments in the last decade (2010–2019). Part I. Soils and fertilizers. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 115, 70-82.	11.4	80
9	Monitoring of Cr, Cu, Pb, V and Zn in polluted soils by laser induced breakdown spectroscopy (LIBS). <i>Journal of Environmental Monitoring</i> , 2011, 13, 1422.	2.1	71
10	Phosphorus quantification in fertilizers using laser induced breakdown spectroscopy (LIBS): a methodology of analysis to correct physical matrix effects. <i>Analytical Methods</i> , 2016, 8, 78-82.	2.7	64
11	Increasing cell adhesion on plasma deposited fluorocarbon coatings by changing the surface topography. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 88B, 139-149.	3.4	63
12	Recent advances and future trends in LIBS applications to agricultural materials and their food derivatives: An overview of developments in the last decade (2010–2019). Part II. Crop plants and their food derivatives. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 453-469.	11.4	60
13	Quantification of total carbon in soil using laser-induced breakdown spectroscopy: a method to correct interference lines. <i>Applied Optics</i> , 2014, 53, 2170.	1.8	53
14	Nano-structured Cell-Adhesive and Cell-Repulsive Plasma-Deposited Coatings: Chemical and Topographical Effects on Keratinocyte Adhesion. <i>Plasma Processes and Polymers</i> , 2008, 5, 540-551.	3.0	52
15	Macro-classification of meteorites by portable energy dispersive X-ray fluorescence spectroscopy (pED-XRF), principal component analysis (PCA) and machine learning algorithms. <i>Talanta</i> , 2020, 212, 120785.	5.5	34
16	Double-pulse laser induced breakdown spectroscopy in orthogonal beam geometry to enhance line emission intensity from agricultural samples. <i>Microchemical Journal</i> , 2017, 133, 272-278.	4.5	31
17	An Innovative Approach to Meteorite Analysis by Laser-Induced Breakdown Spectroscopy. <i>Geostandards and Geoanalytical Research</i> , 2016, 40, 533-541.	3.1	26
18	Laser-based spectroscopic methods to evaluate the humification degree of soil organic matter in whole soils: a review. <i>Journal of Soils and Sediments</i> , 2018, 18, 1292-1302.	3.0	26

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19	Laser-Induced Breakdown Spectroscopy as a Powerful Tool for Distinguishing High- and Low-Vigor Soybean Seed Lots. <i>Food Analytical Methods</i> , 2020, 13, 1691-1698.	2.6	25
20	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
21	Laser-Induced Breakdown Spectroscopy applied to environmental systems and their potential contaminants. An overview of advances achieved in the last few years. <i>Trends in Environmental Analytical Chemistry</i> , 2021, 30, e00121.	10.3	22
22	Semiquantitative analysis of mercury in landfill leachates using double-pulse laser-induced breakdown spectroscopy. <i>Applied Optics</i> , 2017, 56, 3730.	2.1	20
23	Determination of Pb in soils by double-pulse laser-induced breakdown spectroscopy assisted by continuum wave-diode laser-induced fluorescence. <i>Applied Optics</i> , 2018, 57, 8366.	1.8	20
24	Handheld Laser Induced Breakdown Spectroscopy Instrumentation Applied to the Rapid Discrimination between Iron Meteorites and Meteorite Wrecks. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 607-614.	3.1	20
25	Elemental Composition Analysis of Plants and Composts Used for Soil Remediation by Laser-Induced Breakdown Spectroscopy. <i>Clean - Soil, Air, Water</i> , 2014, 42, 791-798.	1.1	19
26	Nutritional characterization of healthy and <i>Aphelenchoides besseyi</i> infected soybean leaves by laser-induced breakdown spectroscopy (LIBS). <i>Microchemical Journal</i> , 2018, 141, 118-126.	4.5	19
27	Depth profile investigations of surface modifications of limestone artifacts by laser-induced breakdown spectroscopy. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	16
28	Evaluation of rice varieties using LIBS and FTIR techniques associated with PCA and machine learning algorithms. <i>Applied Optics</i> , 2020, 59, 10043.	1.8	16
29	Multi-elemental analysis of landfill leachates by single and double pulse laser-induced breakdown spectroscopy. <i>Microchemical Journal</i> , 2021, 165, 106125.	4.5	9
30	New insights on the Dronino iron meteorite by double-pulse micro-Laser-Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 144, 75-81.	2.9	7
31	Evaluation of LIBS under controlled atmosphere to quantify cadmium at low concentration in landfill leachates. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	2.2	7
32	Assessing Laser Cleaning of a Limestone Monument by Fiber Optics Reflectance Spectroscopy (FORS) and Visible and Near-Infrared (VNIR) Hyperspectral Imaging (HSI). <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 1052.	2.0	5
33	Discrimination of Genetically Very Close Accessions of Sweet Orange (<i>Citrus sinensis</i> L. Osbeck) by Laser-Induced Breakdown Spectroscopy (LIBS). <i>Molecules</i> , 2021, 26, 3092.	3.8	5
34	Quantitative Analysis of Pig Iron from Steel Industry by Handheld Laser-Induced Breakdown Spectroscopy and Partial Least Square (PLS) Algorithm. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8461.	2.5	4
35	Laser-Induced Breakdown Spectroscopy (LIBS) In-Situ: From Portable to Handheld Instrumentation. , 2022, , 465-503.		0