Bruno S Marangoni

List of Publications by Year
in descending order

45	821	516215	500791
papers	citations	16 h-index	28 g-index

46	46	46	744
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent advances and future trends in LIBS applications to agricultural materials and their food derivatives: An overview of developments in the last decade (2010â€“2019). Part I. Soils and fertilizers. TrAC - Trends in Analytical Chemistry, 2019, 115, 70-82.	5.8	80
2	Phosphorus quantification in fertilizers using laser induced breakdown spectroscopy (LIBS): a methodology of analysis to correct physical matrix effects. Analytical Methods, 2016, 8, 78-82.	1.3	64
3	Recent advances and future trends in LIBS applications to agricultural materials and their food derivatives: An overview of developments in the last decade (2010â€“2019). Part II. Crop plants and their food derivatives. TrAC - Trends in Analytical Chemistry, 2019, 118, 453-469.	5.8	60
4	Title is missing!. Plant and Soil, 1999, 211, 149-153.	1.8	57
5	Quantification of total carbon in soil using laser-induced breakdown spectroscopy: a method to correct interference lines. Applied Optics, 2014, 53, 2170.	0.9	53
6	Double pulse laser induced breakdown spectroscopy: A potential tool for the analysis of contaminants and macro/micronutrients in organic mineral fertilizers. Science of the Total Environment, 2016, 565, 1116-1123.	3.9	44
7	Response to ironâ€deficiency stress of pear and quince genotypes¹. Journal of Plant Nutrition, 1995, 18, 2465-2482.	0.9	37
8	Macro-classification of meteorites by portable energy dispersive X-ray fluorescence spectroscopy (pED-XRF), principal component analysis (PCA) and machine learning algorithms. Talanta, 2020, 212, 120785.	2.9	34
9	Double-pulse laser induced breakdown spectroscopy in orthogonal beam geometry to enhance line emission intensity from agricultural samples. Microchemical Journal, 2017, 133, 272-278.	2.3	31
10	Evaluation of molecular spectroscopy for predicting oxidative degradation of biodiesel and vegetable oil: Correlation analysis between acid value and UVâ€“Vis absorbance and fluorescence. Fuel Processing Technology, 2019, 183, 1-7.	3.7	27
11	Laser-Induced Breakdown Spectroscopy as a Powerful Tool for Distinguishing High- and Low-Vigor Soybean Seed Lots. Food Analytical Methods, 2020, 13, 1691-1698.	1.3	25
12	Metal to insulator transition in Sb doped SnO2 monocrystalline nanowires thin films. Journal of Applied Physics, 2016, 120, .	1.1	21
13	Semiquantitative analysis of mercury in landfill leachates using double-pulse laser-induced breakdown spectroscopy. Applied Optics, 2017, 56, 3730.	2.1	20
14	Determination of Pb in soils by double-pulse laser-induced breakdown spectroscopy assisted by continuum wave-diode laser-induced fluorescence. Applied Optics, 2018, 57, 8366.	0.9	20
15	Soybean seed vigor discrimination by using infrared spectroscopy and machine learning algorithms. Analytical Methods, 2020, 12, 4303-4309.	1.3	19
16	Laser-Induced Breakdown Spectroscopy Associated with Multivariate Analysis Applied to Discriminate Fertilizers of Different Nature. Journal of Applied Spectroscopy, 2017, 84, 923-928.	0.3	16
17	Evaluation of rice varieties using LIBS and FTIR techniques associated with PCA and machine learning algorithms. Applied Optics, 2020, 59, 10043.	0.9	16
18	Trap loss in a rubidium crossed dipole trap by short-range photoassociation. Physical Review A, 2013, 87, .	1.0	15

#	Article	IF	Citations
19	A new strategy for canine visceral leishmaniasis diagnosis based on <scp>FTIR</scp> spectroscopy and machine learning. Journal of Biophotonics, 2021, 14, e202100141.	1.1	14
20	FTIR spectroscopy with machine learning: A new approach to animal DNA polymorphism screening. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 261, 120036.	2.0	14
21	Evaluation of the roles of metals and humic fractions in the podzolization of soils from the Amazon region using two analytical spectroscopy techniques. Microchemical Journal, 2019, 144, 454-460.	2.3	12
22	A review on the formation of heteronuclear cold molecules. Laser Physics, 2008, 18, 1305-1311.	0.6	10
23	Fast and Accurate Discrimination of Brachiaria brizantha (A.Rich.) Stapf Seeds by Molecular Spectroscopy and Machine Learning. ACS Agricultural Science and Technology, 2021, 1, 443-448.	1.0	10
24	Growth of peach as affected by decomposition of own root residues in soil. Plant and Soil, 1992, 145, 253-260.	1.8	9
25	Laser-induced breakdown spectroscopy of environmental and synthetic samples using non-intensified CCD: optimization of the excitation wavelength. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	9
26	Multi-elemental analysis of landfill leachates by single and double pulse laser-induced breakdown spectroscopy. Microchemical Journal, 2021, 165, 106125.	2.3	9
27	Intraspecific differentiation of sandflies specimens by optical spectroscopy and multivariate analysis. Journal of Biophotonics, 2021, 14, e202000412.	1.1	8
28	Evaluation of LIBS under controlled atmosphere to quantify cadmium at low concentration in landfill leachates. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	7
29	Observation of cold Rb2molecules trapped in an optical dipole trap using a laser-pulse-train technique. Physical Review A, 2011, 84, .	1.0	6
30	Portland Cement/Acrocomia Aculeata Endocarp Bricks: Thermal Insulation and Mechanical Properties. Materials, 2020, 13, 2081.	1.3	6
31	Metronidazole-loaded gold nanoparticles in natural rubber latex as a potential wound dressing. International Journal of Biological Macromolecules, 2022, 211, 568-579.	3.6	6
32	Temperature dependence of Rb2 molecule formation rate constant in a magneto-optical trap. Laser Physics, 2010, 20, 557-560.	0.6	5
33	Loading a39K crossed optical dipole trap from a magneto-optical trap. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 175301.	0.6	5
34	Quantification of water in bioethanol using rhodamine B as an efficient molecular optical probe. Renewable Energy, 2021, 165, 42-51.	4.3	5
35	Discrimination of Genetically Very Close Accessions of Sweet Orange (Citrus sinensis L. Osbeck) by Laser-Induced Breakdown Spectroscopy (LIBS). Molecules, 2021, 26, 3092.	1.7	5
36	Quantitative Analysis of Pig Iron from Steel Industry by Handheld Laser-Induced Breakdown Spectroscopy and Partial Least Square (PLS) Algorithm. Applied Sciences (Switzerland), 2020, 10, 8461.	1.3	4

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37	Simultaneous loading of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>39</mml:mn></mml:msup></mml:math>K and Rb into a crossed dipole trap: Characterization and two-body losses. Physical Review A, 2013, 88, .	1.0	3
38	Simultaneous quantification of seven multi-class organic molecules by single-shot dilution differential pulse voltammetric calibration. Talanta, 2022, 237, 122975.	2.9	3
39	Differentiation of latex biomembrane with collagen and non-collagen using laser induced breakdown spectroscopy. Materials Today Communications, 2022, 30, 103099.	0.9	3
40	Laser-Induced Breakdown Spectroscopy Associated with the Design of Experiments and Machine Learning for Discrimination of Brachiaria brizantha Seed Vigor. Sensors, 2022, 22, 5067.	2.1	2
41	Evaluation of Nitrogen Fertilization in Sugarcane Leaves Using Laser-Induced Breakdown Spectroscopy (LIBS) Coupled with Principal Component Analysis (PCA). , 2018, , .		1
42	Dynamics and stability of matterâ€wave solitons in cigarâ€shaped Boseâ€“Einstein condensates dragged by PÃ¶schlâ€“Teller potential. International Journal of Quantum Chemistry, 2021, 121, e26634.	1.0	0
43	Laser Induced Breakdown Spectroscopy as a tool for support to agriculture. , 2013, , .		0
44	Development and evaluation of a double-pulse LIBS system: Application for soil analysis. , 2014, , .		0
45	Development of a Double-Pulse (DP) Laser-Induced Breakdown Spectroscopy (LIBS) Setup in the Orthogonal Configuration for Environmental Applications. , 2016, , .		0