

Paulino R Villas Boas

List of Publications by Year in descending order

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36
papers

3,029
citations

471509

17
h-index

395702

33
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36
all docs

36
docs citations

36
times ranked

2726
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of complex networks: A survey of measurements. <i>Advances in Physics</i> , 2007, 56, 167-242.	14.4	1,829
2	Analyzing and modeling real-world phenomena with complex networks: a survey of applications. <i>Advances in Physics</i> , 2011, 60, 329-412.	14.4	532
3	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
4	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
5	Laser-induced breakdown spectroscopy to determine soil texture: A fast analytical technique. <i>Geoderma</i> , 2016, 263, 195-202.	5.1	53
6	Applications of laser-induced breakdown spectroscopy for soil characterization, part II: Review of elemental analysis and soil classification. <i>European Journal of Soil Science</i> , 2020, 71, 805-818.	3.9	49
7	Novel estimation of the humification degree of soil organic matter by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 76-81.	2.9	45
8	Applications of laser-induced breakdown spectroscopy for soil analysis, part I: Review of fundamentals and chemical and physical properties. <i>European Journal of Soil Science</i> , 2020, 71, 789-804.	3.9	37
9	Infrared spectroscopy: A potential tool in Huanglongbing and citrus variegated chlorosis diagnosis. <i>Talanta</i> , 2012, 91, 1-6.	5.5	32
10	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
11	Laser-induced fluorescence spectroscopy applied to early diagnosis of citrus Huanglongbing. <i>Biosystems Engineering</i> , 2016, 144, 133-144.	4.3	28
12	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
13	One-point calibration of Saha-Boltzmann plot to improve accuracy and precision of quantitative analysis using laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 160, 105692.	2.9	23
14	A pattern recognition approach to complex networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P11015.	2.3	20
15	Semiquantitative analysis of mercury in landfill leachates using double-pulse laser-induced breakdown spectroscopy. <i>Applied Optics</i> , 2017, 56, 3730.	2.1	20
16	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
17	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
18	Evaluation of the Nutritional Changes Caused by Huanglongbing (HLB) to Citrus Plants Using Laser-Induced Breakdown Spectroscopy. <i>Applied Spectroscopy</i> , 2017, 71, 1471-1480.	2.2	17

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19	Modeling worldwide highway networks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 374, 22-27.	2.1	16
20	Laser-Induced Breakdown Spectroscopy Associated with Multivariate Analysis Applied to Discriminate Fertilizers of Different Nature. <i>Journal of Applied Spectroscopy</i> , 2017, 84, 923-928.	0.7	16
21	Chain motifs: The tails and handles of complex networks. <i>Physical Review E</i> , 2008, 77, 026106.	2.1	15
22	Border trees of complex networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 224005.	2.1	10
23	Identification of citrus varieties using laser-induced fluorescence spectroscopy (LIFS). <i>Computers and Electronics in Agriculture</i> , 2013, 95, 11-18.	7.7	10
24	Sensitivity of complex networks measurements. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P03009.	2.3	9
25	Structure of Humic Substances from Some Regions of the Amazon Assessed Coupling 3D Fluorescence Spectroscopy and CP/PARAFAC. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	9
26	Laser-induced breakdown spectroscopy of environmental and synthetic samples using non-intensified CCD: optimization of the excitation wavelength. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	2.2	9
27	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
28	Quantitative Multi-Element Analysis in Soil Using 532Ånm and 1064Ånm Lasers in LIBS Technique. <i>Plasma Chemistry and Plasma Processing</i> , 2020, 40, 1417-1427.	2.4	7
29	Evaluation of carbon content and humification index of soils under the application of by-products from sugarcane processing. <i>Microchemical Journal</i> , 2019, 149, 104041.	4.5	6
30	Crop Anomaly Identification with Color Filters and Convolutional Neural Networks. , 2018, , .		5
31	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
32	Performance Evaluation of a Portable Laser-Induced Fluorescence Spectroscopy System for the Assessment of the Humification Degree of the Soil Organic Matter. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	4
33	Modeling Highway Networks with Path-Geographical Transformations. <i>Studies in Computational Intelligence</i> , 2009, , 115-126.	0.9	2
34	MODELING THE EVOLUTION OF COMPLEX NETWORKS THROUGH THE PATH-STAR TRANSFORMATION AND OPTIMAL MULTIVARIATE METHODS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010, 20, 795-804.	1.7	1
35	Laser Induced Breakdown Spectroscopy as a tool for support to agriculture. , 2013, , .		0
36	Development of a Double-Pulse (DP) Laser-Induced Breakdown Spectroscopy (LIBS) Setup in the Orthogonal Configuration for Environmental Applications. , 2016, , .		0