Waldomiro Borges Neto

List of Publications by Year
in descending order

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56	931	430754	477173
papers	citations	18 h-index	29 g-index

56	56	56	1303
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Random forest as one-class classifier and infrared spectroscopy for food adulteration detection. Food Chemistry, 2019, 293, 323-332.	4.2	103
2	Degradation of caffeine by photo-Fenton process: Optimization of treatment conditions using experimental design. Chemosphere, 2013, 90, 170-175.	4.2	77
3	Determination of apparent reducing sugars, moisture and acidity in honey by attenuated total reflectance-Fourier transform infrared spectrometry. Talanta, 2007, 71, 1926-1931.	2.9	48
4	Liquidâ€“Liquid Equilibrium Data for Reactional Systems of Ethanolysis at 298.3 K. Journal of Chemical & Engineering Data, 2008, 53, 5-15.	1.0	47
5	Non-destructive fraud detection in rosehip oil by MIR spectroscopy and chemometrics. Food Chemistry, 2016, 209, 228-233.	4.2	47
6	Discrimination of the type of biodiesel/diesel blend (B5) using mid-infrared spectroscopy and PLS-DA. Fuel, 2015, 142, 222-226.	3.4	46
7	Electrospray Ionization Mass Spectrometry Fingerprinting of Brazilian Artisan CachaÃ§a Aged in Different Wood Casks. Journal of Agricultural and Food Chemistry, 2007, 55, 2094-2102.	2.4	45
8	Optimization of fipronil degradation by heterogeneous photocatalysis: Identification of transformation products and toxicity assessment. Water Research, 2017, 110, 133-140.	5.3	41
9	Multivariate optimization by exploratory analysis applied to the determination of microelements in fruit juice by inductively coupled plasma optical emission spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 619-622.	1.5	40
10	Exploratory analysis and inductively coupled plasma optical emission spectrometry (ICP OES) applied in the determination of metals in soft drinks. Microchemical Journal, 2009, 92, 68-72.	2.3	34
11	Quantification of adulterations in extra virgin flaxseed oil using MIR and PLS. Food Chemistry, 2015, 182, 35-40.	4.2	29
12	Quantification of soybean biodiesels in diesel blends according to ASTM E1655 using mid-infrared spectroscopy and multivariate calibration. Fuel, 2014, 117, 1111-1114.	3.4	28
13	Quantification of residual automotive lubricant oil as an adulterant in Brazilian S-10 diesel using MIR spectroscopy and PLS. Fuel, 2014, 130, 257-262.	3.4	25
14	Rapid Discrimination Between Authentic and Adulterated Andiroba Oil Using FTIR-HATR Spectroscopy and Random Forest. Food Analytical Methods, 2018, 11, 1927-1935.	1.3	23
15	Fast Detection of Adulterants/Contaminants in Biodiesel/Diesel Blend (B5) Employing Mid-Infrared Spectroscopy and PLS-DA. Energy & Fuels, 2015, 29, 227-232.	2.5	22
16	Extra virgin (EV) and ordinary (ON) olive oils: distinction and detection of adulteration (EV with ON) as determined by direct infusion electrospray ionization mass spectrometry and chemometric approaches. Rapid Communications in Mass Spectrometry, 2010, 24, 1875-1880.	0.7	20
17	Quantification and classification of cotton biodiesel content in diesel blends, using mid-infrared spectroscopy and chemometric methods. Fuel, 2019, 237, 373-379.	3.4	20
18	Comparison between ordinary least squares regression and weighted least squares regression in the calibration of metals present in human milk determined by ICP-OES. Talanta, 2010, 80, 1102-1109.	2.9	19

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19	Degradation of Direct Red 81 mediated by Fenton reactions: multivariate optimization, effect of chloride and sulfate, and acute ecotoxicity assessment. Environmental Science and Pollution Research, 2017, 24, 6176-6186.	2.7	18
20	Monitoring of biodiesel content and adulterant presence in methyl and ethyl biodiesels of jatropha in blends with mineral diesel using MIR spectrometry and multivariate control charts. Fuel, 2017, 191, 290-299.	3.4	18
21	Degradation of the herbicide paraquat by photo-fenton process: optimization by experimental design and toxicity assessment. Journal of the Brazilian Chemical Society, 2013, 24, 76-84.	0.6	14
22	ClassificaÃ§Ã£o de Ã¡gua de coco processada e natural por meio de HCA, PCA e teores de Ãons metÃ¡licos determinados por ICP OES. Quimica Nova, 2006, 29, 654-656.	0.3	11
23	Infrared Spectroscopy and Multivariate Calibration for Quantification of Soybean Oil as Adulterant in Biodiesel Fuels. JAOCS, Journal of the American Oil Chemists' Society, 2015, 92, 777-782.	0.8	10
24	Data-Driven Soft Independent Modeling of Class Analogy in Paper Spray Ionization Mass Spectrometry-Based Metabolomics for Rapid Detection of Prostate Cancer. Analytical Chemistry, 2022, 94, 1925-1931.	3.2	10
25	Quality Control of Biodiesel Content of B7 Blends of Methyl Jatropha and Methyl Crambe Biodiesels Using Mid-Infrared Spectroscopy and Multivariate Control Charts Based on Net Analyte Signal. Energy & Fuels, 2016, , .	2.5	9
26	Thermal expansion coefficient and algebraic models to correct values of specific mass as a function of temperature for corn biodiesel. Fuel, 2013, 106, 646-650.	3.4	8
27	Quantification of Ethanol in Biodiesels Using Mid-Infrared Spectroscopy and Multivariate Calibration. Industrial & Engineering Chemistry Research, 2014, 53, 13575-13580.	1.8	8
28	Homogeneous catalysis of soybean oil transesterification via methylic and ethylic routes: Multivariate comparison. Energy, 2014, 67, 569-574.	4.5	8
29	Detection of illegal additives in Brazilian S-10/common diesel B7/5 and quantification of Jatropha biodiesel blended with diesel according to EU 2015/1513 by MIR spectroscopy with DD-SIMCA and MCR-ALS under correlation constraint. Fuel, 2021, 285, 119159.	3.4	8
30	Determination of cadmium and lead in cassava employing slurry sampling and graphite furnace atomic absorption spectrometry after multivariate optimization. Analytical Methods, 2013, 5, 5746.	1.3	7
31	Determination of Inorganic Elements in Teas Using Inductively Coupled Plasma Optical Emission Spectrometry and Classification with Exploratory Analysis. Food Analytical Methods, 2014, 7, 540-546.	1.3	7
32	Multivariate control charts based on NAS and midâ€infrared spectroscopy for quality control of B5 blends of methyl soybean biodiesel in diesel. Journal of Chemometrics, 2015, 29, 411-419.	0.7	7
33	FTMIR-PLS as a promising method for rapid detection of adulteration by waste whey in raw milk. Dairy Science and Technology, 2016, 96, 123-131.	2.2	7
34	Quantification of Inorganic Constituents in Brazilian Human Milk by ICP OES. Analytical Letters, 2010, 43, 960-971.	1.0	6
35	Fast Quantitative and Qualitative Monitoring of Mafurra Biodiesel Content Using Fourier Transform Mid-Infrared Spectroscopy, Chemometric Tools, and Variable Selection. Energy & Fuels, 2017, 31, 571-577.	2.5	6
36	Estudo da capacidade de complexaÃ§Ã£o e sua relaÃ§Ã£o com algumas variÃ¡veis ambientais em cinco represas do Rio TietÃª/Brasil. Quimica Nova, 2007, 30, 1505-1511.	0.3	5

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37	Determination of manganese and nickel in slurry sampling by graphite furnace atomic absorption spectrometry. Canadian Journal of Chemistry, 2008, 86, 312-316.	0.6	5
38	Multivariate Approach in the Optimization Procedures for the Direct Determination of Manganese in Serum Samples by Graphite Furnace Atomic Absorption Spectrometry. Journal of Analytical Toxicology, 2011, 35, 571-576.	1.7	5
39	Characterization of Biodiesel by Infrared Spectroscopy with Partial Least Square Discriminant Analysis. Analytical Letters, 2017, 50, 2117-2128.	1.0	5
40	Determination of residual automotive lubricant oil and residual solvent used in a dry wash as adulterants in Brazilian S-10 diesel (B7) using mid-infrared spectroscopy data and chemometric methods. Analytical Methods, 2016, 8, 5427-5434.	1.3	4
41	Analysis of 1H NMR spectra of diesel and crambe biodiesel mixtures using chemometrics tools to evaluate the authenticity of a Brazilian standard biodiesel blend. Talanta, 2020, 209, 120590.	2.9	4
42	Determination of Adulteration of the B10 Blend of Diesel and Crambe Biodiesel Using Proton Nuclear Magnetic Resonance (¹H NMR) Spectroscopy with a Data Driven Soft Independent Modeling of Class Analogy (DD-SIMCA) Model. Analytical Letters, 2021, 54, 790-801.	1.0	4
43	Development and validation of methods for the determination of copper and iron in serum of dogs with canine visceral Leishmaniasis using multivariate optimization and GF AAS. Analytical Methods, 2013, 5, 3129.	1.3	3
44	Use of Multivariate Optimization to Develop Methods for Direct Copper and Lead Determination in Breast Milk by Graphite Furnace Atomic Absorption Spectrometry. Food Analytical Methods, 2014, 7, 790-797.	1.3	3
45	Improvement of glycerin removal from crude biodiesel through the application of a sulfonated polymeric adsorbent material. Journal of Applied Polymer Science, 2017, 134, 45330.	1.3	3
46	SolubilizaÃ§Ã£o alcalina de peixes e otimizaÃ§Ã£o multivariada para determinaÃ§Ã£o de chumbo e manganÃªs usando espectrometria de absorÃ§Ã£o atÃ´mica com forno de grafite. Quimica Nova, 2011, 34, 1167-1172.	0.3	3
47	Direct Determination of Mn in Breast Milk by GF AAS After Multivariate Optimization. Analytical Letters, 2009, 42, 923-934.	1.0	2
48	Quantification of Jatropha methyl biodiesel in mixtures with diesel using mid-infrared spectrometry and interval variable selection methods. Analytical Letters, 2020, 53, 589-605.	1.0	2
49	Qualitative and Quantitative Monitoring of Methyl Cotton Biodiesel Content in Biodiesel/Diesel Blends Using MIR Spectroscopy and Chemometrics Tools. Journal of the Brazilian Chemical Society, 2015, , .	0.6	2
50	Use of Mass Spectrometry with Electrospray Ionization and Exploratory Analysis for Classification of Extra Virgin Olive Oil Adulterated with Vegetable Oils. Revista Virtual De Quimica, 2015, 7, 2180-2189.	0.1	2
51	Application of Figures of Merit in Multivariate Methods Validation Biofuels Analysis using Middle Infrared Spectroscopy and PLS. Revista Virtual De Quimica, 2015, 7, 2242-2254.	0.1	2
52	Fast Classification of Different Oils and Routes Used in Biodiesel Production Using Mid Infrared Spectroscopy and PLS2-DA. Journal of the Brazilian Chemical Society, 2015, , .	0.6	1
53	Factorial and Doehlert Design Used as Optimization Procedures for the Direct Determination of Lead in Whole Blood Samples by Graphite Furnace Atomic Absorption Spectrometry. Analytical Letters, 2010, 43, 508-519.	1.0	0
54	Footprint of Arsenic Contamination in Sediments and Water from Mining Sites â€“ A case study based on multivariate optimization by GF AAS. Brazilian Journal of Analytical Chemistry, 2021, , .	0.3	0

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55	Chemical Profile and Chemometric Analysis of Genetically Modified Soybeans Produced in the TriÃ¢ngulo Mineiro Region (MG), Brazil. Journal of Agricultural Studies, 2021, 9, 73.	0.2	0
56	Rapid Quantification of the Palm Kernel Biokerosene Content in Mixtures with Aviation Kerosene using MIR Spectroscopy and Multivariate Regression by PLS. Brazilian Journal of Analytical Chemistry, 2021, 8, .	0.3	0