

Erik Galvão Paranhos Da Silva

List of Publications by Year in descending order

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57
papers

4,350
citations

331259

21
h-index

155451

55
g-index

58
all docs

58
docs citations

58
times ranked

5438
citing authors

#	ARTICLE	IF	CITATIONS
1	Box-Behnken design: An alternative for the optimization of analytical methods. <i>Analytica Chimica Acta</i> , 2007, 597, 179-186.	2.6	2,226
2	Statistical designs and response surface techniques for the optimization of chromatographic systems. <i>Journal of Chromatography A</i> , 2007, 1158, 2-14.	1.8	493
3	Chemometric tools in electroanalytical chemistry: Methods for optimization based on factorial design and response surface methodology. <i>Microchemical Journal</i> , 2009, 92, 58-67.	2.3	222
4	Evaluation of adsorption processes of metal ions in multi-element aqueous systems by lignocellulosic adsorbents applying different isotherms: A critical review. <i>Chemical Engineering Journal</i> , 2019, 357, 404-420.	6.6	110
5	Review of procedures involving separation and preconcentration for the determination of cadmium using spectrometric techniques. <i>Journal of Hazardous Materials</i> , 2007, 145, 358-367.	6.5	106
6	Slurry Sampling – An Analytical Strategy for the Determination of Metals and Metalloids by Spectroanalytical Techniques. <i>Applied Spectroscopy Reviews</i> , 2010, 45, 44-62.	3.4	95
7	Multivariate optimization techniques in analytical chemistry - an overview. <i>Microchemical Journal</i> , 2018, 140, 176-182.	2.3	91
8	Analytical strategies of sample preparation for the determination of mercury in food matrices – A review. <i>Microchemical Journal</i> , 2015, 121, 227-236.	2.3	79
9	A review of multivariate designs applied to the optimization of methods based on inductively coupled plasma optical emission spectrometry (ICP OES). <i>Microchemical Journal</i> , 2016, 128, 331-346.	2.3	79
10	Application of Multivariate Techniques in Optimization of Spectroanalytical Methods. <i>Applied Spectroscopy Reviews</i> , 2007, 42, 475-491.	3.4	77
11	Biosorption of Pb(II) and Cd(II) ions by <i>Agave sisalana</i> (sisal fiber). <i>Microchemical Journal</i> , 2011, 97, 269-273.	2.3	68
12	Determination of copper in powdered chocolate samples by slurry-sampling flame atomic-absorption spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 1099-1102.	1.9	43
13	Thermoresistant xylanases from <i>Trichoderma stromaticum</i> : Application in bread making and manufacturing xylo-oligosaccharides. <i>Food Chemistry</i> , 2017, 221, 1499-1506.	4.2	43
14	Fast method for the determination of copper, manganese and iron in seafood samples. <i>Journal of Food Composition and Analysis</i> , 2008, 21, 259-263.	1.9	39
15	Screening of <i>Mangifera indica</i> L. functional content using PCA and neural networks (ANN). <i>Food Chemistry</i> , 2019, 273, 115-123.	4.2	39
16	Artificial neural network hybridized with a genetic algorithm for optimization of lipase production from <i>Penicillium roqueforti</i> ATCC 10110 in solid-state fermentation. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 31, 101885.	1.5	33
17	Determination of manganese and zinc in powdered chocolate samples by slurry sampling using sequential multi-element flame atomic absorption spectrometry. <i>Microchemical Journal</i> , 2006, 82, 159-162.	2.3	32
18	Selenite biotransformation during brewing. Evaluation by HPLC – ICP-MS. <i>Talanta</i> , 2012, 88, 272-276.	2.9	29

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19	Use of slurry sampling for the direct determination of zinc in yogurt by high resolution-continuum source flame atomic absorption spectrometry. <i>Talanta</i> , 2010, 81, 1357-1359.	2.9	28
20	Multivariate optimization of simple procedure for determination of Fe and Mg in cassava starch employing slurry sampling and FAAS. <i>Food Chemistry</i> , 2017, 227, 41-47.	4.2	24
21	Evaluation of macro and micronutrient elements content from soft drinks using principal component analysis and Kohonen self-organizing maps. <i>Food Chemistry</i> , 2019, 273, 9-14.	4.2	24
22	Simplex-Centroid Design and Artificial Neural Network-Genetic Algorithm for the Optimization of Exoglucanase Production by <i>Penicillium Roqueforti</i> ATCC 10110 Through Solid-State Fermentation Using a Blend of Agroindustrial Wastes. <i>Bioenergy Research</i> , 2020, 13, 1130-1143.	2.2	24
23	Evaluation of minerals, toxic elements and bioactive compounds in rose petals (<i>Rosa</i> spp.) using chemometric tools and artificial neural networks. <i>Microchemical Journal</i> , 2018, 138, 98-108.	2.3	23
24	Slurry Sampling and HG AFS for the Determination of Total Arsenic in Rice Samples. <i>Food Analytical Methods</i> , 2013, 6, 1128-1132.	1.3	21
25	Multivariate Optimization of Method of Slurry Sampling for Determination of Iron and Zinc in Starch Samples by Flame Atomic Absorption Spectrometry. <i>Food Analytical Methods</i> , 2016, 9, 1719-1725.	1.3	21
26	Screening of <i>Passiflora L.</i> mineral content using principal component analysis and Kohonen self-organizing maps. <i>Food Chemistry</i> , 2017, 233, 507-513.	4.2	21
27	Development of procedure for sample preparation of cashew nuts using mixture design and evaluation of nutrient profiles by Kohonen neural network. <i>Food Chemistry</i> , 2019, 273, 136-143.	4.2	21
28	COCOA SHELL FOR THE PRODUCTION OF ENDOGLUCANASE BY <i>Penicillium roqueforti</i> ATCC 10110 IN SOLID STATE FERMENTATION AND BIOCHEMICAL PROPERTIES. <i>Revista Mexicana De Ingeniera Quimica</i> , 2019, 18, 777-787.	0.2	21
29	Peach-palm (<i>Bactris gasipaes</i> Kunth.) waste as substrate for xylanase production by <i>Trichoderma stromaticum</i> AM7. <i>Chemical Engineering Communications</i> , 2018, 205, 975-985.	1.5	20
30	Multivariate optimization of an ultrasound-assisted extraction procedure for the determination of Cu, Fe, Mn, and Zn in plant samples by flame atomic absorption spectrometry. <i>Analytical Methods</i> , 2020, 12, 2509-2516.	1.3	20
31	Biodegradable thermoplastic starch of peach palm (<i>Bactris gasipaes</i> kunth) fruit: Production and characterisation. <i>International Journal of Food Properties</i> , 2017, 20, S2429-S2440.	1.3	18
32	Determination of the mineral composition of Brazilian rice and evaluation using chemometric techniques. <i>Analytical Methods</i> , 2013, 5, 998-1003.	1.3	15
33	Artificial Intelligence as a Combinatorial Optimization Strategy for Cellulase Production by <i>Trichoderma stromaticum</i> AM7 Using Peach-Palm Waste Under Solid-State Fermentation. <i>Bioenergy Research</i> , 2021, 14, 1161-1170.	2.2	15
34	Natural deep eutectic solvent-based microwave-assisted extraction in the medicinal herb sample preparation and elemental determination by ICP OES. <i>Journal of Food Composition and Analysis</i> , 2022, 109, 104510.	1.9	15
35	Comparison between the univariate and multivariate analysis on the partial characterization of the endoglucanase produced in the solid state fermentation by <i>Aspergillus oryzae</i> ATCC 10124. <i>Preparative Biochemistry and Biotechnology</i> , 2017, 47, 977-985.	1.0	13
36	Development of Method Based on Dispersive Liquid-Liquid Microextraction Air-Assisted for Multi-Element Determination of Cadmium and Manganese in Sugarcane Spirit (Brazilian cachaça) by FAAS. <i>Food Analytical Methods</i> , 2020, 13, 222-229.	1.3	12

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37	Evaluation and Application of the Internal Standard Technique for the Direct Determination of Copper in Fruit Juices Employing Fast Sequential Flame Atomic Absorption Spectrometry. <i>Analytical Letters</i> , 2008, 41, 1571-1578.	1.0	11
38	Determination and Evaluation of Metallothionein and Metals in Mugil cephalus (Mullet) from Pontal Bay, Brazil. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2017, 98, 84-90.	1.3	9
39	Evaluation of metal content in tea samples commercialized in sachets using multivariate data analysis techniques. <i>Microchemical Journal</i> , 2019, 151, 104248.	2.3	9
40	Multivariate optimization of ultrasound-assisted liquid-liquid microextraction based on two solvents for cadmium preconcentration prior to determination by flame atomic absorption spectrometry. <i>Analytical Methods</i> , 2021, 13, 267-273.	1.3	8
41	Enhanced extraction of arsenic and cadmium from environmental samples using a natural deep eutectic solvent and determination by inductively coupled plasma mass spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 7100-7111.	1.8	7
42	Chemometric Tools Applied to Evaluation of Fruit Bioactive Compounds Extraction. <i>Food Analytical Methods</i> , 2020, 13, 1176-1189.	1.3	7
43	Use of hexamethyldisilazane as a silanizing agent in microwave-assisted derivatization for determining phenolic compounds in wine by gas chromatography. <i>Microchemical Journal</i> , 2021, 161, 105785.	2.3	6
44	Chemical characterization of the soils from black pepper (<i>Piper nigrum</i> L.) cultivation using principal component analysis (PCA) and Kohonen self-organizing map (KSOM). <i>Journal of Soils and Sediments</i> , 2021, 21, 3098-3106.	1.5	6
45	Analytical Strategies for Determination and Environmental Impact Assessment of Inorganic Antimony Species in Natural Waters Using Hydride Generation Atomic Fluorescence Spectrometry (HG AFS). <i>Journal of the Brazilian Chemical Society</i> , 2017, , .	0.6	4
46	A New Method for Determination of Mg, Ca, Zn, and Na in Cocoa Butter by FAAS Employing Extraction Induced by Emulsion Breaking and Multivariate Optimization. <i>Food Analytical Methods</i> , 2022, 15, 458-467.	1.3	4
47	Quality pattern evaluation of frozen soursop pulps: an assessment based on chemical composition and chemometric analysis. <i>Food Science and Technology</i> , 2020, 40, 508-516.	0.8	4
48	The Application of Chemometric Methods in the Production of Enzymes Through Solid State Fermentation Uses the Artificial Neural Network—a Review. <i>Bioenergy Research</i> , 2023, 16, 279-288.	2.2	3
49	Application of a Novel Ion-Imprinted Polymer to the Separation of Traces of CdII Ions in Natural Water: Optimization by Box-Behnken Design. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	2
50	Application of Mixture Design and Kohonen Neural Network for Determination of Macro- and Microelement in Mullet (<i>Mugil cephalus</i>) by MIP OES. <i>Food Analytical Methods</i> , 2021, 14, 1239-1249.	1.3	2
51	PRÉ-CONCENTRAÇÃO BASEADA NA COPRECIPITAÇÃO USANDO CROMATO DE PRATA COMO CARREADOR PARA DETERMINAÇÃO DE COBRE POR FAAS. <i>Quimica Nova</i> , 2018, , .	0.3	2
52	<i>Pestalotiopsis mangiferae</i> isolated from cocoa leaves and concomitant tannase and gallic acid production. <i>Fungal Biology</i> , 2022, 126, 471-479.	1.1	2
53	Determination and Evaluation of the Mineral Composition of Obi (<i>Cola acuminata</i>). <i>Biological Trace Element Research</i> , 2011, 143, 478-488.	1.9	1
54	Artificial neural network employment for element determination in Mugil cephalus by ICP OES in Pontal Bay, Brazil. <i>Analytical Methods</i> , 2020, 12, 3713-3721.	1.3	1

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55	Self-organizing map applied to the choice of internal standards for the determination of Cd, Pb, Sn, and platinum group elements by inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2021, 233, 122534.	2.9	1
56	Chemometric tools in the optimization of a microwave-assisted digestion procedure for guarana-based drink samples and data analysis from elemental, caffeine, and epicatechin contents. <i>Food Chemistry</i> , 2021, 365, 130468.	4.2	1
57	Wind turbine power curve modeling based on hybrid fuzzy clustering algorithms. , 2018, , .		0