Erik Galvo Paranhos Da Silva

List of Publications by Citations

52 papers	3,332 citations	19 h-index	57 g-index
58 ext. papers	3,793 ext. citations	4.5 avg, IF	4.72 L-index

#	Paper	IF	Citations
52	Box-Behnken design: an alternative for the optimization of analytical methods. *Analytica Chimica Acta*, **2007**, 597, 179-86	6.6	1678
51	Statistical designs and response surface techniques for the optimization of chromatographic systems. *Journal of Chromatography A*, **2007**, 1158, 2-14	4.5	439
50	Chemometric tools in electroanalytical chemistry: Methods for optimization based on factorial design and response surface methodology. *Microchemical Journal*, **2009**, 92, 58-67	4.8	189
49	Review of procedures involving separation and preconcentration for the determination of cadmium using spectrometric techniques. *Journal of Hazardous Materials*, **2007**, 145, 358-67	12.8	91
48	Slurry Sampling—An Analytical Strategy for the Determination of Metals and Metalloids by Spectroanalytical Techniques. *Applied Spectroscopy Reviews*, **2010**, 45, 44-62	4.5	82
47	Evaluation of adsorption processes of metal ions in multi-element aqueous systems by lignocellulosic adsorbents applying different isotherms: A critical review. *Chemical Engineering Journal*, **2019**, 357, 404-420	14.7	75
46	Application of Multivariate Techniques in Optimization of Spectroanalytical Methods. *Applied Spectroscopy Reviews*, **2007**, 42, 475-491	4.5	72
45	Analytical strategies of sample preparation for the determination of mercury in food matrices—A review. *Microchemical Journal*, **2015**, 121, 227-236	4.8	63
44	A review of multivariate designs applied to the optimization of methods based on inductively coupled plasma optical emission spectrometry (ICP OES). *Microchemical Journal*, **2016**, 128, 331-346	4.8	60
43	Multivariate optimization techniques in analytical chemistry - an overview. *Microchemical Journal*, **2018**, 140, 176-182	4.8	58
42	Biosorption of Pb(II) and Cd(II) ions by Agave sisalana (sisal fiber). *Microchemical Journal*, **2011**, 97, 269-273	4.8	56
41	Determination of copper in powdered chocolate samples by slurry-sampling flame atomic-absorption spectrometry. *Analytical and Bioanalytical Chemistry*, **2005**, 382, 1099-102	4.4	39
40	Fast method for the determination of copper, manganese and iron in seafood samples. *Journal of Food Composition and Analysis*, **2008**, 21, 259-263	4.1	33
39	Thermoresistant xylanases from Trichoderma stromaticum: Application in bread making and manufacturing xylo-oligosaccharides. *Food Chemistry*, **2017**, 221, 1499-1506	8.5	30
38	Screening of Mangifera indica L. functional content using PCA and neural networks (ANN). *Food Chemistry*, **2019**, 273, 115-123	8.5	30
37	Selenite biotransformation during brewing. Evaluation by HPLC-ICP-MS. *Talanta*, **2012**, 88, 272-6	6.2	25
36	Determination of manganese and zinc in powdered chocolate samples by slurry sampling using sequential multi-element flame atomic absorption spectrometry. *Microchemical Journal*, **2006**, 82, 159-162	4.8	24

35	Use of slurry sampling for the direct determination of zinc in yogurt by high resolution-continuum source flame atomic absorption spectrometry. *Talanta*, **2010**, 81, 1357-9	6.2	23
34	Multivariate optimization of simple procedure for determination of Fe and Mg in cassava starch employing slurry sampling and FAAS. *Food Chemistry*, **2017**, 227, 41-47	8.5	19
33	Evaluation of macro and micronutrient elements content from soft drinks using principal component analysis and Kohonen self-organizing maps. *Food Chemistry*, **2019**, 273, 9-14	8.5	18
32	Slurry Sampling and HG AFS for the Determination of Total Arsenic in Rice Samples. *Food Analytical Methods*, **2013**, 6, 1128-1132	3.4	18
31	Multivariate Optimization of Method of Slurry Sampling for Determination of Iron and Zinc in Starch Samples by Flame Atomic Absorption Spectrometry. *Food Analytical Methods*, **2016**, 9, 1719-1725	3.4	17
30	Artificial neural network hybridized with a genetic algorithm for optimization of lipase production from Penicillium roqueforti ATCC 10110 in solid-state fermentation. *Biocatalysis and Agricultural Biotechnology*, **2021**, 31, 101885	4.2	16
29	Screening of Passiflora L. mineral content using principal component analysis and Kohonen self-organizing maps. *Food Chemistry*, **2017**, 233, 507-513	8.5	15
28	Evaluation of minerals, toxic elements and bioactive compounds in rose petals (Rosa spp.) using chemometric tools and artificial neural networks. *Microchemical Journal*, **2018**, 138, 98-108	4.8	14
27	COCOA SHELL FOR THE PRODUCTION OF ENDOGLUCANASE BY Penicillium roqueforti ATCC 10110 IN SOLID STATE FERMENTATION AND BIOCHEMICAL PROPERTIES. *Revista Mexicana De Ingeniera Quimica*, **2019**, 18, 777-787	1.8	14
26	Development of procedure for sample preparation of cashew nuts using mixture design and evaluation of nutrient profiles by Kohonen neural network. *Food Chemistry*, **2019**, 273, 136-143	8.5	14
25	Biodegradable thermoplastic starch of peach palm (Bactris gasipaes kunth) fruit: Production and characterisation. *International Journal of Food Properties*, **2017**, 20, S2429-S2440	3	12
24	Determination of the mineral composition of Brazilian rice and evaluation using chemometric techniques. *Analytical Methods*, **2013**, 5, 998-1003	3.2	11
23	Evaluation and Application of the Internal Standard Technique for the Direct Determination of Copper in Fruit Juices Employing Fast Sequential Flame Atomic Absorption Spectrometry. *Analytical Letters*, **2008**, 41, 1571-1578	2.2	11
22	Simplex-Centroid Design and Artificial Neural Network-Genetic Algorithm for the Optimization of Exoglucanase Production by Penicillium Roqueforti ATCC 10110 Through Solid-State Fermentation Using a Blend of Agroindustrial Wastes. *Bioenergy Research*, **2020**, 13, 1130-1143	3.1	11
21	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. *Analytical Methods*, **2020**, 12, 2509-2516	3.2	11
20	Determination and Evaluation of Metallothionein and Metals in Mugil cephalus (Mullet) from Pontal Bay, Brazil. *Bulletin of Environmental Contamination and Toxicology*, **2017**, 98, 84-90	2.7	9
19	Peach-palm (Bactris gasipaes Kunth.) waste as substrate for xylanase production by Trichoderma stromaticum AM7. *Chemical Engineering Communications*, **2018**, 205, 975-985	2.2	9
18	Comparison between the univariate and multivariate analysis on the partial characterization of the endoglucanase produced in the solid state fermentation by Aspergillus oryzae ATCC 10124. *Preparative Biochemistry and Biotechnology*, **2017**, 47, 977-985	2.4	9

17	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. *Food Analytical Methods*, **2020**, 13, 222-229	3.4	8
16	Enhanced extraction of arsenic and cadmium from environmental samples using a natural deep eutectic solvent and determination by inductively coupled plasma mass spectrometry. *International Journal of Environmental Analytical Chemistry*, **2020**, 1-12	1.8	4
15	Use of hexamethyldisilazane as a silanizing agent in microwave-assisted derivatization for determining phenolic compounds in wine by gas chromatography. *Microchemical Journal*, **2021**, 161, 105785	4.8	4
14	Analytical Strategies for Determination and Environmental Impact Assessment of Inorganic Antimony Species in Natural Waters Using Hydride Generation Atomic Fluorescence Spectrometry (HG AFS). *Journal of the Brazilian Chemical Society*, **2017**,	1.5	3
13	Multivariate optimization of ultrasound-assisted liquid-liquid microextraction based on two solvents for cadmium preconcentration prior to determination by flame atomic absorption spectrometry. *Analytical Methods*, **2021**, 13, 267-273	3.2	3
12	Artificial Intelligence as a Combinatorial Optimization Strategy for Cellulase Production by Trichoderma stromaticum AM7 Using Peach-Palm Waste Under Solid-State Fermentation. *Bioenergy Research*,1	3.1	3
11	Evaluation of metal content in tea samples commercialized in sachets using multivariate data analysis techniques. *Microchemical Journal*, **2019**, 151, 104248	4.8	2
10	Chemical characterization of the soils from black pepper (Piper nigrum L.) cultivation using principal component analysis (PCA) and Kohonen self-organizing map (KSOM). *Journal of Soils and Sediments*, **2021**, 21, 3098-3106	3.4	2
9	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. *Food Analytical Methods*,1	3.4	2
8	Artificial neural network employment for element determination in Mugil cephalus by ICP OES in Pontal Bay, Brazil. *Analytical Methods*, **2020**, 12, 3713-3721	3.2	1
7	Chemometric Tools Applied to Evaluation of Fruit Bioactive Compounds Extraction. *Food Analytical Methods*, **2020**, 13, 1176-1189	3.4	1
6	Determination and evaluation of the mineral composition of Obi (Cola acuminate). *Biological Trace Element Research*, **2011**, 143, 478-88	4.5	1
5	Quality pattern evaluation of frozen soursop pulps: an assessment based on chemical composition and chemometric analysis. *Food Science and Technology*, **2020**, 40, 508-516	2	1
4	Natural deep eutectic solvent-based microwave-assisted extraction in the medicinal herb sample preparation and elemental determination by ICP OES. *Journal of Food Composition and Analysis*, **2022**, 109, 104510	4.1	1
3	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. *Talanta*, **2021**, 233, 122534	6.2	0
2	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. *Food Chemistry*, **2021**, 365, 130468	8.5	0
1	Application of Mixture Design and Kohonen Neural Network for Determination of Macro- and Microelement in Mullet (Mugil cephalus) by MIP OES. *Food Analytical Methods*, **2021**, 14, 1239-1249	3.4	0