Aderval Severino Luna

List of Publications by Citations

83 papers	1,997 citations	23 h-index	42 g-index
85 ext. papers	2,286 ext. citations	4.2 avg, IF	5.18 L-index

#	Paper	IF	Citations
83	Operating parameters for bio-oil production in biomass pyrolysis: A review. *Journal of Analytical and Applied Pyrolysis*, **2018**, 129, 134-149	6	260
82	Kinetic modeling and equilibrium studies during cadmium biosorption by dead Sargassum sp. biomass. *Bioresource Technology*, **2004**, 91, 249-57	11	203
81	Sorption and desorption of Pb2+ ions by dead Sargassum sp. biomass. *Biochemical Engineering Journal*, **2006**, 27, 310-314	4.2	114
80	Chemical vapor generation: atomic absorption by Ag, Au, Cu, and Zn following reduction of aquo ions with sodium tetrahydroborate(III). *Analytical Chemistry*, **2000**, 72, 3523-31	7.8	104
79	Assessment of apically extruded debris produced by the single-file ProTaper F2 technique under reciprocating movement. *Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics*, **2010**, 110, 390-4		91
78	Competitive biosorption of cadmium(II) and zinc(II) ions from binary systems by Sargassum filipendula. *Bioresource Technology*, **2010**, 101, 5104-11	11	78
77	Rapid characterization of transgenic and non-transgenic soybean oils by chemometric methods using NIR spectroscopy. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 100, 115-9	4.4	77
76	Prediction of ozone concentration in tropospheric levels using artificial neural networks and support vector machine at Rio de Janeiro, Brazil. *Atmospheric Environment*, **2014**, 98, 98-104	5.3	57
75	Negligible expression of arsenic in some commercially available brands of Portland cement and mineral trioxide aggregate. *Journal of Endodontics*, **2009**, 35, 887-90	4.7	55
74	Lack of correlation between sealer penetration into dentinal tubules and sealability in nonbonded root fillings. *International Endodontic Journal*, **2012**, 45, 642-51	5.4	42
73	Response surface modeling and optimization to study the influence of deposition parameters on the electrodeposition of Cu–Zn alloys in citrate medium. *Journal of Applied Electrochemistry*, **2007**, 37, 473-481	2.6	42
72	Comparison of the root-end seal provided by bioceramic repair cements and White MTA. *International Endodontic Journal*, **2011**, 44, 662-8	5.4	41
71	Determination of mercury in gasoline by cold vapor atomic absorption spectrometry with direct reduction in microemulsion media. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2005**, 60, 625-631	3.1	41
70	Determination of arsenic in diesel, gasoline and naphtha by graphite furnace atomic absorption spectrometry using microemulsion medium for sample stabilization. *Analytical and Bioanalytical Chemistry*, **2006**, 385, 1562-9	4.4	35
69	Chemical vapor generation–electrothermal atomic absorption spectrometry: new perspectives. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2002**, 57, 2047-2056	3.1	31
68	Predicting the properties of biodiesel and its blends using mid-FT-IR spectroscopy and first-order multivariate calibration. *Fuel*, **2017**, 204, 185-194	7.1	28
67	Brazilian cheeses: A survey covering physicochemical characteristics, mineral content, fatty acid profile and volatile compounds. *Food Research International*, **2018**, 108, 18-26	7	28

66	Classification of edible oils and modeling of their physico-chemical properties by chemometric methods using mid-IR spectroscopy. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 100, 109-14	4.4	28
65	Forecast of daily PM2.5 concentrations applying artificial neural networks and Holt‐Winters models. *Air Quality, Atmosphere and Health*, **2019**, 12, 317-325	5.6	27
64	Zn,Al-catalysts for heterogeneous biodiesel production: Basicity and process optimization. *Energy*, **2014**, 75, 453-462	7.9	26
63	Differential contribution of grape peel, pulp, and seed to bioaccessibility of micronutrients and major polyphenolic compounds of red and white grapes through simulated human digestion. *Journal of Functional Foods*, **2019**, 52, 699-708	5.1	26
62	Response surface analysis to evaluate the influence of deposition parameters on the electrodeposition of Cu‐Co alloys in citrate medium. *Journal of Applied Electrochemistry*, **2008**, 38, 1763-1769	2.6	24
61	Multivariate regression models obtained from near-infrared spectroscopy data for prediction of the physical properties of biodiesel and its blends. *Fuel*, **2020**, 261, 116344	7.1	24
60	Polyphenolic profile, macro- and microelements in bioaccessible fractions of grape juice sediment using in vitro gastrointestinal simulation. *Food Bioscience*, **2019**, 27, 66-74	4.9	20
59	Chemometric methods for classification of clonal varieties of green coffee using Raman spectroscopy and direct sample analysis. *Journal of Food Composition and Analysis*, **2019**, 76, 44-50	4.1	20
58	A novel approach to discriminate transgenic from non-transgenic soybean oil using FT-MIR and chemometrics. *Food Research International*, **2015**, 67, 206-211	7	17
57	Corrosion evaluation of orthodontic wires in artificial saliva solutions by using response surface methodology. *Materials Research*, **2013**, 16, 50-64	1.5	17
56	Similar sealability between bioceramic putty ready-to-use repair cement and white MTA. *Brazilian Dental Journal*, **2013**, 24, 362-6	1.9	17
55	Changes in organic acids, polyphenolic and elemental composition of ros'sparkling wines treated with mannoproteins during over-lees aging. *Food Research International*, **2019**, 124, 34-42	7	17
54	Carbonation of Steel Slag: Testing of the Wet Route in a Pilot-scale Reactor. *Energy Procedia*, **2017**, 114, 5381-5392	2.3	16
53	Determination of platinum originated from antitumoral drugs in human urine by atomic absorption spectrometric methods. *Talanta*, **2010**, 82, 1647-53	6.2	16
52	A gerao quhica de vapor em espectrometria athica. *Quimica Nova*, **2002**, 25, 1132-1144	1.6	16
51	Magnetic solid-phase extraction and pre-concentration of 17β-estradiol and 17α-ethinylestradiol in tap water using maghemite-graphene oxide nanoparticles and determination via HPLC with a fluorescence detector. *Microchemical Journal*, **2020**, 157, 104947	4.8	16
50	Use of asparaginase for acrylamide mitigation in coffee and its influence on the content of caffeine, chlorogenic acid, and caffeic acid. *Food Chemistry*, **2021**, 338, 128045	8.5	16
49	Obesity promotes alterations in iron recycling. *Nutrients*, **2015**, 7, 335-48	6.7	15

48	Simultaneous determination of aflatoxins B2 and G2 in peanuts using spectrofluorescence coupled with parallel factor analysis. *Analytica Chimica Acta*, **2013**, 778, 9-14	6.6	15
47	Electron Paramagnetic Resonance and Atomic Absorption Spectrometry as tools for the investigation of Cu(II) biosorption by Sargassum filipendula. *Hydrometallurgy*, **2007**, 86, 105-113	4	15
46	A comparison of different strategies in multivariate regression models for the direct determination of Mn, Cr, and Ni in steel samples using laser-induced breakdown spectroscopy. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2018**, 139, 20-26	3.1	15
45	Classification of soil samples based on Raman spectroscopy and X-ray fluorescence spectrometry combined with chemometric methods and variable selection. *Analytical Methods*, **2014**, 6, 8930-8939	3.2	14
44	Influence of cathodic current density and mechanical stirring on the electrodeposition of Cu-Co alloys in citrate bath. *Materials Research*, **2008**, 11, 1-9	1.5	14
43	A structural approach to the HAZOP Hazard and operability technique in the biopharmaceutical industry. *Journal of Loss Prevention in the Process Industries*, **2015**, 35, 1-11	3.5	13
42	Does active Crohn's disease have decreased intestinal antioxidant capacity?. *Journal of Crohn's and Colitis*, **2013**, 7, e358-66	1.5	13
41	Plasma zinc, copper, and serum thyroid hormones and insulin levels after zinc supplementation followed by placebo in competitive athletes. *Biological Trace Element Research*, **2011**, 142, 415-23	4.5	13
40	Similar glucose leakage pattern on smear-covered, EDTA-treated and BioPure MTAD-treated dentin. *Journal of Endodontics*, **2008**, 34, 459-62	4.7	12
39	Minimization of Cu and Ni interferences in the determination of Sb by hydride generation atomic absorption spectrometry: the use of picolinic acid as masking agent and the influence of l-cysteine. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2002**, 57, 463-472	3.1	12
38	Determination of nitrogen-containing polycyclic aromatic compounds in diesel and gas oil by reverse-phase high performance liquid chromatography using introduction of sample as detergentless microemulsion. *Fuel*, **2016**, 176, 119-129	7.1	11
37	Evaluation of chemometric methodologies for the classification of Coffea canephora cultivars via FT-NIR spectroscopy and direct sample analysis. *Analytical Methods*, **2017**, 9, 4255-4260	3.2	11
36	Direct Determination of Trace Elements in Meat Samples via High-Resolution Graphite Furnace Atomic Absorption Spectrometry. *Food Analytical Methods*, **2017**, 10, 1209-1215	3.4	11
35	Kinetics and equilibrium of lanthanum biosorption by free and immobilized microalgal cells. *Adsorption Science and Technology*, **2017**, 35, 137-152	3.6	10
34	Sequential quantification of methyl mercury in biological materials by selective reduction in the presence of mercury(II), using two gas liquid separators. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2002**, 57, 2103-2112	3.1	10
33	Response surface modeling and voltammetric evaluation of Co-rich Cu Co alloy coatings obtained from glycine baths. *Surface and Coatings Technology*, **2015**, 276, 606-617	4.4	8
32	The use of 2-2-thiazolylazo-p-cresol to minimize the interference of Ni and Cu for the bismuth determination in alloys by hydride generation atomic absorption spectrometry. *Talanta*, **2003**, 61, 597-602	6.2	8
31	Discrimination of adulterants in UHT milk samples by NIRS coupled with supervision discrimination techniques. *Analytical Methods*, **2016**, 8, 7204-7208	3.2	8

30	Enzymatic Technology Application on Coffee Co-products: A Review. *Waste and Biomass Valorization*, **2021**, 12, 3521-3540	3.2	8
29	Statistic evaluation of cysteine and allyl alcohol as additives for Cu-Zn coatings from citrate baths. *Materials Research*, **2013**, 16, 392-403	1.5	7
28	Yogurt and whey beverages available in Brazilian market: Mineral and trace contents, daily intake and statistical differentiation. *Food Research International*, **2019**, 119, 709-714	7	7
27	Comparison of the performance of multiclass classifiers in chemical data: Addressing the problem of overfitting with the permutation test. *Chemometrics and Intelligent Laboratory Systems*, **2020**, 201, 104013	3.8	6
26	A high-throughput method for multi-element determination in green coffee beans using diluted nitric acid and ultrasound energy. *Analytical Methods*, **2018**, 10, 1656-1661	3.2	6
25	The use of experimental design for the study of the corrosion of bronze pretreated with AMT in artificial rainwater. *Progress in Organic Coatings*, **2013**, 76, 1289-1295	4.8	6
24	An evaluation of copper biosorption by a brown seaweed under optimized conditions. *Electronic Journal of Biotechnology*, **2003**, 6,	3.1	6
23	Determination of Six □carboline Alkaloids in Urine and Phytotherapic Extracts Using Micellar Liquid Chromatography with Fluorimetric Detection. *Journal of Liquid Chromatography and Related Technologies*, **2015**, 38, 997-1006	1.3	5
22	Evaluation of air quality in a megacity using statistics tools. *Meteorology and Atmospheric Physics*, **2018**, 130, 361-370	2	5
21	Brazilian infant dairy foods: mineral content and daily intake contribution. *British Food Journal*, **2018**, 120, 2454-2465	2.8	4
20	Batch and fixed-bed column biosorption of manganese ion by Sargassum filipendula. *Electronic Journal of Biotechnology*, **2011**, 14,	3.1	4
19	The effects of surfactants on the estimation of bacterial density in petroleum samples. *Applied Biochemistry and Biotechnology*, **2008**, 147, 77-84	3.2	4
18	Comparative Study of Ion-Exchange and Biosorption Processes for the Removal of Cd2+ and Zn2+ Ions from Aqueous Effluents. *Adsorption Science and Technology*, **2007**, 25, 661-671	3.6	4
17	Determination of lead in bone by electrothermal atomic absorption spectrometry with Zeeman effect background correction. *Journal of the Brazilian Chemical Society*, **2004**, 15, 487-490	1.5	4
16	Risk Analysis: A generalized Hazop methodology state-of-the-art, applications, and perspective in the process industry. *Vigil□ncia Sanit□ria Em Debate: Sociedade, C□ncia & Tecnologia*, **2018**, 6, 106	1.1	4
15	Optimized preconcentration method using magnetic dispersive solid-phase microextraction with GO□e2O3 nanoparticles for the determination of Se in fish samples by FIA-HG-AAS. *Journal of Analytical Atomic Spectrometry*, **2021**, 36, 900-908	3.7	4
14	Dye extraction results on bacterial leakproof root fillings. *Journal of Endodontics*, **2008**, 34, 1093-5	4.7	3
13	Prediction of fatty methyl esters and physical properties of soybean oil/biodiesel blends from near and mid-infrared spectra using the data fusion strategy. *Analytical Methods*, **2017**, 9, 4808-4818	3.2	2

12	Raman Spectroscopy, Soil Analysis Applications **2017**, 919-923		2
11	Use of activated carbon obtained from sugarcane straw for PAH adsorption - a comparative study with commercial materials. *Environmental Technology (United Kingdom)*, **2020**, 1-15	2.6	2
10	Direct solid sample analysis using synchronous fluorescence spectroscopy coupled with chemometric tools for the geographical discrimination of coffee samples. *Food Chemistry*, **2022**, 371, 131063	8.5	2
9	Optimized Sample Preparation for Sulfur Determination in Animal Feed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) with Correlation to the Total Protein Content. *Analytical Letters*, **2020**, 53, 2252-2265	2.2	1
8	Development and validation of an analytical methodology for the determination of 2H and 18O in formation water based on Laser-Based infrared absorption spectroscopy. *Microchemical Journal*, **2020**, 155, 104678	4.8	1
7	Application of a lab-made ternary Fe-Cr-Al coil vaporizer coupled to ICP OES for boron determination in powdered food after the sample preparation in alkaline media. *Microchemical Journal*, **2020**, 157, 104875	4.8	1
6	Identification of Counterfeit Vodka by Synchronous Fluorescence Spectroscopy and Chemometric Analysis. *Analytical Letters*, **2021**, 54, 1522-1532	2.2	1
5	Application of Chemometric Methods Coupled With Vibrational Spectroscopy for the Discrimination of Plant Cultivars and to Predict Physicochemical Properties Using R. *Comprehensive Analytical Chemistry*, **2018**, 80, 165-194	1.9	0
4	Exploring multivariate linear regression methods for the prediction of total phenolic content in standard American lager beers using synchronous fluorescence spectroscopy fused data. *Chemometrics and Intelligent Laboratory Systems*, **2020**, 206, 104168	3.8	0
3	Characterization of thermostructural damages observed in a seaweed used for biosorption of cadmium: effects on the kinetics and uptake. *Applied Biochemistry and Biotechnology*, **2007**, 137-140, 835-45	3.2	
2	Investigation of biomass waste biochar production to act as matrix for urea. *Journal of Material Cycles and Waste Management*, **2022**, 24, 606	3.4	
1	Characterization of Thermostructural Damages Observed in a Seaweed Used for Biosorption of Cadmium **2007**, 835-845		