

# Aderval Severino Luna

## List of Publications by Year in descending order

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85  
papers

2,707  
citations

201674

27  
h-index

197818

49  
g-index

85  
all docs

85  
docs citations

85  
times ranked

3501  
citing authors

#	ARTICLE	IF	CITATIONS
1	Operating parameters for bio-oil production in biomass pyrolysis: A review. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 129, 134-149.	5.5	386
2	Kinetic modeling and equilibrium studies during cadmium biosorption by dead <i>Sargassum</i> sp. biomass. <i>Bioresource Technology</i> , 2004, 91, 249-257.	9.6	234
3	Sorption and desorption of Pb <sup>2+</sup> ions by dead <i>Sargassum</i> sp. biomass. <i>Biochemical Engineering Journal</i> , 2006, 27, 310-314.	3.6	139
4	Chemical Vapor Generation: Atomic Absorption by Ag, Au, Cu, and Zn Following Reduction of Aquo Ions with Sodium Tetrahydroborate(III). <i>Analytical Chemistry</i> , 2000, 72, 3523-3531.	6.5	123
5	Assessment of apically extruded debris produced by the single-file ProTaper F2 technique under reciprocating movement. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2010, 110, 390-394.	1.4	108
6	Rapid characterization of transgenic and non-transgenic soybean oils by chemometric methods using NIR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 100, 115-119.	3.9	96
7	Competitive biosorption of cadmium(II) and zinc(II) ions from binary systems by <i>Sargassum filipendula</i> . <i>Bioresource Technology</i> , 2010, 101, 5104-5111.	9.6	91
8	Prediction of ozone concentration in tropospheric levels using artificial neural networks and support vector machine at Rio de Janeiro, Brazil. <i>Atmospheric Environment</i> , 2014, 98, 98-104.	4.1	70
9	Negligible Expression of Arsenic in Some Commercially Available Brands of Portland Cement and Mineral Trioxide Aggregate. <i>Journal of Endodontics</i> , 2009, 35, 887-890.	3.1	65
10	Lack of correlation between sealer penetration into dentinal tubules and sealability in nonbonded root fillings. <i>International Endodontic Journal</i> , 2012, 45, 642-651.	5.0	61
11	Comparison of the root-end seal provided by bioceramic repair cements and White MTA. <i>International Endodontic Journal</i> , 2011, 44, 662-668.	5.0	54
12	Response surface modeling and optimization to study the influence of deposition parameters on the electrodeposition of Cu-Zn alloys in citrate medium. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 473-481.	2.9	53
13	Determination of mercury in gasoline by cold vapor atomic absorption spectrometry with direct reduction in microemulsion media. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 625-631.	2.9	49
14	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. <i>Journal of Functional Foods</i> , 2019, 52, 699-708.	3.4	47
15	Brazilian cheeses: A survey covering physicochemical characteristics, mineral content, fatty acid profile and volatile compounds. <i>Food Research International</i> , 2018, 108, 18-26.	6.2	45
16	Forecast of daily PM <sub>2.5</sub> concentrations applying artificial neural networks and Holt-Winters models. <i>Air Quality, Atmosphere and Health</i> , 2019, 12, 317-325.	3.3	45
17	Multivariate regression models obtained from near-infrared spectroscopy data for prediction of the physical properties of biodiesel and its blends. <i>Fuel</i> , 2020, 261, 116344.	6.4	38
18	An evaluation of copper biosorption by a brown seaweed under optimized conditions. <i>Electronic Journal of Biotechnology</i> , 2003, 6, .	2.2	38

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19	Determination of arsenic in diesel, gasoline and naphtha by graphite furnace atomic absorption spectrometry using microemulsion medium for sample stabilization. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1562-1569.	3.7	37
20	Use of asparaginase for acrylamide mitigation in coffee and its influence on the content of caffeine, chlorogenic acid, and caffeic acid. <i>Food Chemistry</i> , 2021, 338, 128045.	8.2	36
21	Chemical vapor generation "electrothermal atomic absorption spectrometry: new perspectives. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 2047-2056.	2.9	34
22	Classification of edible oils and modeling of their physico-chemical properties by chemometric methods using mid-IR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 100, 109-114.	3.9	33
23	Polyphenolic profile, macro- and microelements in bioaccessible fractions of grape juice sediment using in vitro gastrointestinal simulation. <i>Food Bioscience</i> , 2019, 27, 66-74.	4.4	33
24	Predicting the properties of biodiesel and its blends using mid-FT-IR spectroscopy and first-order multivariate calibration. <i>Fuel</i> , 2017, 204, 185-194.	6.4	32
25	Magnetic solid-phase extraction and pre-concentration of $17\beta$ -estradiol and $17\alpha$ -ethinylestradiol in tap water using maghemite-graphene oxide nanoparticles and determination via HPLC with a fluorescence detector. <i>Microchemical Journal</i> , 2020, 157, 104947.	4.5	32
26	Response surface analysis to evaluate the influence of deposition parameters on the electrodeposition of Cu-Co alloys in citrate medium. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 1763-1769.	2.9	28
27	Chemometric methods for classification of clonal varieties of green coffee using Raman spectroscopy and direct sample analysis. <i>Journal of Food Composition and Analysis</i> , 2019, 76, 44-50.	3.9	28
28	Zn,Al-catalysts for heterogeneous biodiesel production: Basicity and process optimization. <i>Energy</i> , 2014, 75, 453-462.	8.8	27
29	Carbonation of Steel Slag: Testing of the Wet Route in a Pilot-scale Reactor. <i>Energy Procedia</i> , 2017, 114, 5381-5392.	1.8	24
30	Changes in organic acids, polyphenolic and elemental composition of ros� sparkling wines treated with mannoproteins during over-lees aging. <i>Food Research International</i> , 2019, 124, 34-42.	6.2	24
31	Enzymatic Technology Application on Coffee Co-products: A Review. <i>Waste and Biomass Valorization</i> , 2021, 12, 3521-3540.	3.4	24
32	Similar Sealability Between Bioceramic Putty Ready-To-Use Repair Cement and White MTA. <i>Brazilian Dental Journal</i> , 2013, 24, 362-366.	1.1	23
33	Obesity Promotes Alterations in Iron Recycling. <i>Nutrients</i> , 2015, 7, 335-348.	4.1	22
34	Simultaneous determination of aflatoxins B2 and G2 in peanuts using spectrofluorescence coupled with parallel factor analysis. <i>Analytica Chimica Acta</i> , 2013, 778, 9-14.	5.4	21
35	A structural approach to the HAZOP " Hazard and operability technique in the biopharmaceutical industry. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 35, 1-11.	3.3	21
36	Corrosion evaluation of orthodontic wires in artificial saliva solutions by using response surface methodology. <i>Materials Research</i> , 2013, 16, 50-64.	1.3	20

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37	Classification of soil samples based on Raman spectroscopy and X-ray fluorescence spectrometry combined with chemometric methods and variable selection. <i>Analytical Methods</i> , 2014, 6, 8930-8939.	2.7	20
38	A gerao qumica de vapor em espectrometria atmica. <i>Quimica Nova</i> , 2002, 25, 1132-1144.	0.3	19
39	Determination of platinum originated from antitumoral drugs in human urine by atomic absorption spectrometric methods. <i>Talanta</i> , 2010, 82, 1647-1653.	5.5	19
40	Does active Crohn's disease have decreased intestinal antioxidant capacity?. <i>Journal of Crohn's and Colitis</i> , 2013, 7, e358-e366.	1.3	19
41	A novel approach to discriminate transgenic from non-transgenic soybean oil using FT-MIR and chemometrics. <i>Food Research International</i> , 2015, 67, 206-211.	6.2	19
42	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. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 139, 20-26.	2.9	19
43	Influence of cathodic current density and mechanical stirring on the electrodeposition of Cu-Co alloys in citrate bath. <i>Materials Research</i> , 2008, 11, 1-9.	1.3	18
44	Response surface modeling and voltammetric evaluation of Co-rich Cu-Co alloy coatings obtained from glycine baths. <i>Surface and Coatings Technology</i> , 2015, 276, 606-617.	4.8	17
45	Evaluation of chemometric methodologies for the classification of <i>Coffea canephora</i> cultivars via FT-NIR spectroscopy and direct sample analysis. <i>Analytical Methods</i> , 2017, 9, 4255-4260.	2.7	17
46	Plasma Zinc, Copper, and Serum Thyroid Hormones and Insulin Levels After Zinc Supplementation Followed by Placebo in Competitive Athletes. <i>Biological Trace Element Research</i> , 2011, 142, 415-423.	3.5	16
47	Electron Paramagnetic Resonance and Atomic Absorption Spectrometry as tools for the investigation of Cu(II) biosorption by <i>Sargassum filipendula</i> . <i>Hydrometallurgy</i> , 2007, 86, 105-113.	4.3	15
48	Comparison of the performance of multiclass classifiers in chemical data: Addressing the problem of overfitting with the permutation test. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 201, 104013.	3.5	15
49	Direct solid sample analysis using synchronous fluorescence spectroscopy coupled with chemometric tools for the geographical discrimination of coffee samples. <i>Food Chemistry</i> , 2022, 371, 131063.	8.2	15
50	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. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 463-472.	2.9	14
51	Direct Determination of Trace Elements in Meat Samples via High-Resolution Graphite Furnace Atomic Absorption Spectrometry. <i>Food Analytical Methods</i> , 2017, 10, 1209-1215.	2.6	14
52	Similar Glucose Leakage Pattern on Smear-covered, EDTA-treated and BioPure MTAD-treated Dentin. <i>Journal of Endodontics</i> , 2008, 34, 459-462.	3.1	13
53	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. <i>Fuel</i> , 2016, 176, 119-129.	6.4	13
54	Yogurt and whey beverages available in Brazilian market: Mineral and trace contents, daily intake and statistical differentiation. <i>Food Research International</i> , 2019, 119, 709-714.	6.2	13

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55	Kinetics and equilibrium of lanthanum biosorption by free and immobilized microalgal cells. <i>Adsorption Science and Technology</i> , 2017, 35, 137-152.	3.2	12
56	Sequential quantification of methyl mercury in biological materials by selective reduction in the presence of mercury(II), using two gas-liquid separators. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 2103-2112.	2.9	11
57	The use of experimental design for the study of the corrosion of bronze pretreated with AMT in artificial rainwater. <i>Progress in Organic Coatings</i> , 2013, 76, 1289-1295.	3.9	11
58	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. <i>Talanta</i> , 2003, 61, 597-602.	5.5	10
59	Discrimination of adulterants in UHT milk samples by NIRS coupled with supervision discrimination techniques. <i>Analytical Methods</i> , 2016, 8, 7204-7208.	2.7	10
60	Optimized preconcentration method using magnetic dispersive solid-phase microextraction with GO- $\text{Fe}_3\text{O}_4$ nanoparticles for the determination of Se in fish samples by FIA-HG-AAS. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 900-908.	3.0	10
61	Statistic evaluation of cysteine and allyl alcohol as additives for Cu-Zn coatings from citrate baths. <i>Materials Research</i> , 2013, 16, 392-403.	1.3	9
62	A high-throughput method for multi-element determination in green coffee beans using diluted nitric acid and ultrasound energy. <i>Analytical Methods</i> , 2018, 10, 1656-1661.	2.7	9
63	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. <i>Analytical Letters</i> , 2020, 53, 2252-2265.	1.8	7
64	Risk Analysis: A generalized Hazop methodology state-of-the-art, applications, and perspective in the process industry. <i>Vigilância Sanitária Em Debate: Sociedade, Ciência &amp; Tecnologia</i> , 2018, 6, 106.	0.1	7
65	Batch and fixed-bed column biosorption of manganese ion by <i>Sargassum filipendula</i> . <i>Electronic Journal of Biotechnology</i> , 2011, 14, .	2.2	6
66	Determination of Six $\beta$ -carboline Alkaloids in Urine and Phytotherapeutic Extracts Using Micellar Liquid Chromatography with Fluorimetric Detection. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2015, 38, 997-1006.	1.0	6
67	Evaluation of air quality in a megacity using statistics tools. <i>Meteorology and Atmospheric Physics</i> , 2018, 130, 361-370.	2.0	6
68	Brazilian infant dairy foods: mineral content and daily intake contribution. <i>British Food Journal</i> , 2018, 120, 2454-2465.	2.9	6
69	Comparative Study of Ion-Exchange and Biosorption Processes for the Removal of $\text{Cd}^{2+}$ and $\text{Zn}^{2+}$ Ions from Aqueous Effluents. <i>Adsorption Science and Technology</i> , 2007, 25, 661-671.	3.2	5
70	The Effects of Surfactants on the Estimation of Bacterial Density in Petroleum Samples. <i>Applied Biochemistry and Biotechnology</i> , 2008, 147, 77-84.	2.9	5
71	Dye Extraction Results on Bacterial Leakproof Root Fillings. <i>Journal of Endodontics</i> , 2008, 34, 1093-1095.	3.1	5
72	Use of activated carbon obtained from sugarcane straw for PAH adsorption - a comparative study with commercial materials. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 861-875.	2.2	5

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73	Determination of lead in bone by electrothermal atomic absorption spectrometry with Zeeman effect background correction. <i>Journal of the Brazilian Chemical Society</i> , 2004, 15, 487-490.	0.6	5
74	Ultrasensitive Determination of Arsenic in Juvenile Eyeshadow by Novel Dispersive Magnetic Solid-Phase Extraction (MSPE) and Flow Injection Analysis "Hydride Generation Atomic Absorption Spectrometry (FIA-HG-AAS). <i>Analytical Letters</i> , 2023, 56, 132-147.	1.8	5
75	Exploring multivariate linear regression methods for the prediction of total phenolic content in standard American lager beers using synchronous fluorescence spectroscopy fused data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 206, 104168.	3.5	4
76	Prediction of fatty methyl esters and physical properties of soybean oil/biodiesel blends from near and mid-infrared spectra using the data fusion strategy. <i>Analytical Methods</i> , 2017, 9, 4808-4818.	2.7	3
77	Raman Spectroscopy, <i>Soil Analysis Applications</i> . , 2017, , 919-923.		3
78	Identification of Counterfeit Vodka by Synchronous Fluorescence Spectroscopy and Chemometric Analysis. <i>Analytical Letters</i> , 2021, 54, 1522-1532.	1.8	3
79	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. <i>Microchemical Journal</i> , 2020, 157, 104875.	4.5	3
80	Application of Chemometric Methods Coupled With Vibrational Spectroscopy for the Discrimination of Plant Cultivars and to Predict Physicochemical Properties Using R. <i>Comprehensive Analytical Chemistry</i> , 2018, 80, 165-194.	1.3	2
81	Optimization of a freeze-drying cycle of a viral vaccine based on changes in temperature, time and geometry of the vials. <i>Journal of Applied Pharmaceutical Science</i> , 0, , 22-29.	1.0	2
82	Development and validation of an analytical methodology for the determination of $^2\text{H}$ and $^{18}\text{O}$ in formation water based on Laser-Based infrared absorption spectroscopy. <i>Microchemical Journal</i> , 2020, 155, 104678.	4.5	1
83	Characterization of thermostructural damages observed in a seaweed used for biosorption of cadmium. <i>Applied Biochemistry and Biotechnology</i> , 2007, 137-140, 835-845.	2.9	0
84	Characterization of Thermostructural Damages Observed in a Seaweed Used for Biosorption of Cadmium. , 2007, , 835-845.		0
85	Investigation of biomass waste biochar production to act as matrix for urea. <i>Journal of Material Cycles and Waste Management</i> , 2022, 24, 606-617.	3.0	0