

Edson I Muller

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

1,598
citations

24
h-index

35
g-index

75
ext. papers

1,785
ext. citations

4.1
avg, IF

4.52
L-index

#	Paper	IF	Citations
74	Analytical methods for the determination of halogens in bioanalytical sciences: a review. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 7615-42	4.4	117
73	Synthesis of ZnAl ₂ O ₄ nanoparticles by different routes and the effect of its pore size on the photocatalytic process. <i>Microporous and Mesoporous Materials</i> , 2012 , 163, 29-33	5.3	81
72	Determination of toxic elements in coal by ICP-MS after digestion using microwave-induced combustion. <i>Talanta</i> , 2010 , 83, 364-9	6.2	57
71	Application of Zn ₂ SnO ₄ photocatalyst prepared by microwave-assisted hydrothermal route in the degradation of organic pollutant under sunlight. <i>Ceramics International</i> , 2013 , 39, 4569-4574	5.1	54
70	Evaluation of oxygen pressurized microwave-assisted digestion of botanical materials using diluted nitric acid. <i>Talanta</i> , 2011 , 83, 1324-8	6.2	53
69	Study and determination of elemental impurities by ICP-MS in active pharmaceutical ingredients using single reaction chamber digestion in compliance with USP requirements. <i>Talanta</i> , 2015 , 136, 161-9	6.2	51
68	Rapid and facile preparation of zinc ferrite (ZnFe ₂ O ₄) oxide by microwave-solvothermal technique and its catalytic activity in heterogeneous photo-Fenton reaction. <i>Materials Chemistry and Physics</i> , 2015 , 160, 141-147	4.4	49
67	Microencapsulation of anthocyanin compounds extracted from blueberry (<i>Vaccinium</i> spp.) by spray drying: Characterization, stability and simulated gastrointestinal conditions. <i>Food Hydrocolloids</i> , 2019 , 89, 742-748	10.6	48
66	Bromine and iodine determination in active pharmaceutical ingredients by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 1889	3.7	46
65	Production of microcapsules containing Bifidobacterium BB-12 by emulsification/internal gelation. <i>LWT - Food Science and Technology</i> , 2017 , 76, 216-221	5.4	40
64	Determination of trace elements in fluoropolymers after microwave-induced combustion. <i>Analytical Chemistry</i> , 2013 , 85, 374-80	7.8	39
63	Total sulfur determination in residues of crude oil distillation using FT-IR/ATR and variable selection methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 89, 82-7	4.4	38
62	Determination of Bromide, Chloride, and Fluoride in Cigarette Tobacco by Ion Chromatography after Microwave-Induced Combustion. <i>Analytical Letters</i> , 2012 , 45, 1004-1015	2.2	36
61	Microwave-assisted wet digestion with H ₂ O ₂ at high temperature and pressure using single reaction chamber for elemental determination in milk powder by ICP-OES and ICP-MS. <i>Talanta</i> , 2016 , 156-157, 232-238	6.2	35
60	Simultaneous determination of sulphamethoxazole and trimethoprim in powder mixtures by attenuated total reflection-Fourier transform infrared and multivariate calibration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009 , 49, 800-5	3.5	33
59	Evaluation of Hg species after culinary treatments of fish. <i>Food Control</i> , 2015 , 47, 413-419	6.2	31
58	Ultrasound-assisted extraction of rare-earth elements from carbonatite rocks. <i>Ultrasonics Sonochemistry</i> , 2018 , 40, 24-29	8.9	31

57	Use of prebiotic sources to increase probiotic viability in pectin microparticles obtained by emulsification/internal gelation followed by freeze-drying. <i>Food Research International</i> , 2020 , 130, 108902	7	31
56	Determination of chlorine and sulfur in high purity flexible graphite using ion chromatography (IC) and inductively coupled plasma optical emission spectrometry (ICP OES) after pyrohydrolysis sample preparation. <i>Analytical Methods</i> , 2015 , 7, 2129-2134	3.2	28
55	Ultraviolet radiation combined with microwave-assisted wet digestion of Antarctic seaweeds for further determination of toxic elements by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2015 , 30, 260-266	3.7	28
54	Attenuated total reflectance with Fourier transform infrared spectroscopy (ATR/FTIR) and different PLS Algorithms for simultaneous determination of clavulanic acid and amoxicillin in powder pharmaceutical formulation. <i>Journal of the Brazilian Chemical Society</i> , 2011 , 22, 1903-1912	1.5	28
53	Pyrohydrolysis of carbon nanotubes for Br and I determination by ICP-MS. <i>Microchemical Journal</i> , 2012 , 101, 54-58	4.8	26
52	Determination of Toxic Elements in Nuts by Inductively Coupled Plasma Mass Spectrometry after Microwave-Induced Combustion. <i>Food Analytical Methods</i> , 2013 , 6, 258-264	3.4	26
51	Feasibility of microwave-induced combustion for trace element determination in <i>Engraulis anchoita</i> by ICP-MS. <i>Food Chemistry</i> , 2014 , 145, 927-31	8.5	25
50	Green microwave-assisted wet digestion method of carbohydrate-rich foods with hydrogen peroxide using single reaction chamber and further elemental determination using ICP-OES and ICP-MS. <i>Microchemical Journal</i> , 2017 , 134, 257-261	4.8	24
49	Plasma-based determination of inorganic contaminants in waste of electric and electronic equipment after microwave-induced combustion. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015 , 105, 95-102	3.1	24
48	Simultaneous determination of iron and nickel in fluoropolymers by solid sampling high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Talanta</i> , 2016 , 160, 454-460	6.2	24
47	A single consumption of high amounts of the Brazil nuts improves lipid profile of healthy volunteers. <i>Journal of Nutrition and Metabolism</i> , 2013 , 2013, 653185	2.7	23
46	Determination of halogens and sulfur in pitch from crude oil by plasma-based techniques after microwave-induced combustion. <i>Journal of Analytical Atomic Spectrometry</i> , 2015 , 30, 1822-1827	3.7	22
45	A new approach to calibration and determination of selected trace elements in food contact polymers by LA-ICP-MS. <i>Talanta</i> , 2017 , 170, 488-495	6.2	21
44	The effect of enzymatic crosslinking on the viability of probiotic bacteria (<i>Lactobacillus acidophilus</i>) encapsulated by complex coacervation. <i>Food Research International</i> , 2019 , 125, 108577	7	21
43	Microwave-assisted digestion using diluted acids for toxic element determination in medicinal plants by ICP-MS in compliance with United States pharmacopeia requirements. <i>Analytical Methods</i> , 2015 , 7, 5218-5225	3.2	21
42	Determination of metal impurities in carbon nanotubes by direct solid sampling electrothermal atomic absorption spectrometry. <i>Journal of the Brazilian Chemical Society</i> , 2011 , 22, 1040-1049	1.5	21
41	Determination of Chlorine in Crude Oil by High-Resolution Continuum Source Graphite Furnace Molecular Absorption Spectrometry Using AlCl, InCl, and SrCl Molecules. <i>Energy & Fuels</i> , 2016 , 30, 3637-3643	4.1	21
40	Response surface methodology approach for the optimization of tartrazine removal by heterogeneous photo-Fenton process using mesostructured Fe ₂ O ₃ -supported ZSM-5 prepared by chitin-templating. <i>Chemical Engineering Communications</i> , 2018 , 205, 445-455	2.2	20

39	Combining pyrohydrolysis and ICP-MS for bromine and iodine determination in airborne particulate matter. <i>Microchemical Journal</i> , 2014 , 116, 225-229	4.8	20
38	Determination of rare earth elements in graphite by solid sampling electrothermal vaporization-inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2015 , 30, 2048-2055	3.7	19
37	Feasibility of nut digestion using single reaction chamber for further trace element determination by ICP-OES. <i>Microchemical Journal</i> , 2014 , 116, 255-260	4.8	19
36	TiO ₂ nanoparticles coated with deep eutectic solvents: characterization and effect on photodegradation of organic dyes. <i>New Journal of Chemistry</i> , 2019 , 43, 1415-1423	3.6	17
35	Cadmium determination in biological samples by direct solid sampling flame atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002 , 57, 2187-2193	3.1	17
34	A new method for chlorine determination in commercial pet food after decomposition by microwave-induced combustion. <i>Analytical Methods</i> , 2015 , 7, 4315-4320	3.2	16
33	Green method by diffuse reflectance infrared spectroscopy and spectral region selection for the quantification of sulphamethoxazole and trimethoprim in pharmaceutical formulations. <i>Anais Da Academia Brasileira De Ciencias</i> , 2016 , 88, 1-15	1.4	15
32	Characterization of three main degradation products from novel oral anticoagulant rivaroxaban under stress conditions by UPLC-Q-TOF-MS/MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 123, 10-5	3.5	14
31	Determination of Cd and Pb in medicinal plants using solid sampling flame atomic absorption spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , 2009 , 89, 129-140	1.8	14
30	Evaluation of calibration transfer methods using the ATR-FTIR technique to predict density of crude oil. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017 , 166, 7-13	3.8	13
29	Direct cadmium determination in sediment samples by flame atomic absorption spectrometry using multivariate calibration procedures. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 769-774	3.7	13
28	Rare earth elements profile in a cultivated and non-cultivated soil determined by laser ablation-inductively coupled plasma mass spectrometry. <i>Chemosphere</i> , 2018 , 198, 409-416	8.4	12
27	Determination of propranolol hydrochloride in pharmaceutical preparations using near infrared spectrometry with fiber optic probe and multivariate calibration methods. <i>Journal of Analytical Methods in Chemistry</i> , 2015 , 2015, 795102	2	11
26	Assessment of inorganic contaminants in golden mussel (<i>Limnoperna fortunei</i>) in Southern Brazil. <i>Journal of the Brazilian Chemical Society</i> , 2012 , 23, 846-853	1.5	11
25	Microwave-induced combustion of high purity nuclear flexible graphite for the determination of potentially embrittling elements using atomic spectrometric techniques. <i>Microchemical Journal</i> , 2016 , 124, 321-325	4.8	10
24	Fluoride determination in carbon nanotubes by ion selective electrode. <i>Journal of the Brazilian Chemical Society</i> , 2012 , 23, 1193-1198	1.5	10
23	Determinação espectrofotométrica de cloreto em cimento após preparo de amostra por pirólise. <i>Química Nova</i> , 2013 , 36, 716-719	1.6	10
22	Use of paper capsules for cadmium determination in biological samples by solid sampling flame atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005 , 60, 583-588	3.1	10

21	LaO Nanoparticles: Study of Uptake and Distribution in (Spreng.) Pedersen by LA-ICP-MS and EXRF. <i>Environmental Science & Technology</i> , 2019 , 53, 10827-10834	10.3	9
20	Simultaneous diffuse reflectance infrared determination of clavulanic acid and amoxicillin using multivariate calibration techniques. <i>Drug Testing and Analysis</i> , 2012 , 4, 500-6	3.5	9
19	Determination of Br, Cl and I in honey using ICP-based techniques following microwave-assisted wet digestion with alkaline H ₂ O ₂ in a single reaction chamber. <i>Analytical Methods</i> , 2017 , 9, 649-654	3.2	8
18	Direct solid sampling by flame atomic absorption spectrometry: determination of manganese in coal samples. <i>Journal of the Brazilian Chemical Society</i> , 2004 , 15, 199-204	1.5	7
17	Development of a microwave-assisted ultraviolet digestion method for biodiesel and subsequent trace elements determination by SF-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2018 , 33, 1049-1056	3.7	6
16	Effects of intermittent drying on physicochemical and morphological quality of rice and endosperm of milled brown rice. <i>LWT - Food Science and Technology</i> , 2021 , 152, 112334	5.4	5
15	A novel strategy for medical foods digestion and subsequent elemental determination using inductively coupled plasma optical emission spectrometry. <i>Microchemical Journal</i> , 2019 , 147, 1055-1060	4.8	4
14	Sr and Fe relationship with hormone replacement therapy and bone mineral density. <i>Clinica Chimica Acta</i> , 2007 , 384, 113-7	6.2	4
13	Rapid, Noninvasive, and Nondestructive Method for Biofilm Imaging on Metallic Surfaces Using Active Thermography. <i>Analytical Chemistry</i> , 2020 , 92, 5682-5687	7.8	3
12	An ultrasound-assisted sample preparation method of carbonatite rock for determination of rare earth elements by inductively coupled plasma mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34 Suppl 3, e8732	2.2	3
11	Characterization of Inorganic Solids Present in Brazilian Crude Oil Emulsions Using Scanning Electron Microscopy (SEM) with Energy-Dispersive X-ray Spectrometry (EDS): Evaluation of the Effect of Solvents. <i>Energy & Fuels</i> , 2020 , 34, 1309-1316	4.1	3
10	Wet Digestion Using Microwave Heating 2014 , 99-142		3
9	Determination of Basic Nitrogen in Residues of Crude Oil Distillation Using ATR-FTIR and Chemometric Methods. <i>Analytical Letters</i> , 2013 , 46, 2879-2889	2.2	3
8	Determination of Boron in Silicon Carbide by ICP-OES and ICP-MS after Sample Preparation using Pyrohydrolysis. <i>Journal of the Brazilian Chemical Society</i> , 2014 ,	1.5	2
7	Portable dehumidifiers as an original matrix for the study of inhalable nanoparticles in school. <i>Chemosphere</i> , 2021 , 262, 127295	8.4	2
6	Development of an eco-friendly sample preparation protocol for metal determination in food samples: an oxygen pressurized single reaction chamber using diluted nitric acid. <i>Analytical Methods</i> , 2021 , 13, 5555-5563	3.2	1
5	EFFECT OF ANTIOXIDANT POTENTIAL ON SEVERITY OF CIRRHOSIS IN HUMANS. <i>Nutricion Hospitalaria</i> , 2015 , 32, 2294-300	1	1
4	Development of an HPLC-UV Method to Assay Empagliflozin Tablets and Identification of the Major Photoproduct by Quadrupole Time-of-Flight Mass Spectrometry. <i>Journal of Chromatographic Science</i> , 2021 , 59, 526-535	1.4	0

3	Conversion of rice husk into reducing sugars: influence of pretreatment with water and [C16MIM][Br] ionic liquid. <i>Clean Technologies and Environmental Policy</i> , 1	4.3	o
2	Efeito do uso de minerais traços (cobre, zinco, selênio e manganês) e vitaminas (A e E) injetáveis sobre o estresse oxidativo e função de neutrófilos de fêmeas da raça Holandesa no período de transição. <i>Arquivo Brasileiro De Medicina Veterinária E Zootecnia</i> , 2019, 71, 1227-1235	0.3	
1	Low Food Consumption Interferes with the Nutritional Status of Surgical Patients with Neoplasia of the Gastrointestinal Tract. <i>Nutrition and Cancer</i> , 2021, 1-12	2.8	