

# Edson I Muller

## List of Publications by Year in Descending Order

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**Version:** 2024-04-29

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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	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> , <b>2021</b> , 13, 5555-5563	3.2	1
73	Portable dehumidifiers as an original matrix for the study of inhalable nanoparticles in school. <i>Chemosphere</i> , <b>2021</b> , 262, 127295	8.4	2
72	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> , <b>2021</b> , 59, 526-535	1.4	0
71	Low Food Consumption Interferes with the Nutritional Status of Surgical Patients with Neoplasia of the Gastrointestinal Tract. <i>Nutrition and Cancer</i> , <b>2021</b> , 1-12	2.8	
70	Effects of intermittent drying on physicochemical and morphological quality of rice and endosperm of milled brown rice. <i>LWT - Food Science and Technology</i> , <b>2021</b> , 152, 112334	5.4	5
69	Rapid, Noninvasive, and Nondestructive Method for Biofilm Imaging on Metallic Surfaces Using Active Thermography. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 5682-5687	7.8	3
68	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> , <b>2020</b> , 34 Suppl 3, e8732	2.2	3
67	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 &amp; Fuels</i> , <b>2020</b> , 34, 1309-1316	4.1	3
66	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> , <b>2020</b> , 130, 108902	7.2	31
65	LaO Nanoparticles: Study of Uptake and Distribution in (Spreng.) Pedersen by LA-ICP-MS and EXRF. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 10827-10834	10.3	9
64	TiO <sub>2</sub> nanoparticles coated with deep eutectic solvents: characterization and effect on photodegradation of organic dyes. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 1415-1423	3.6	17
63	A novel strategy for medical foods digestion and subsequent elemental determination using inductively coupled plasma optical emission spectrometry. <i>Microchemical Journal</i> , <b>2019</b> , 147, 1055-1060	4.8	4
62	The effect of enzymatic crosslinking on the viability of probiotic bacteria ( <i>Lactobacillus acidophilus</i> ) encapsulated by complex coacervation. <i>Food Research International</i> , <b>2019</b> , 125, 108577	7	21
61	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 Veterinaria E Zootecnia</i> , <b>2019</b> , 71, 1227-1235	0.3	
60	Microencapsulation of anthocyanin compounds extracted from blueberry ( <i>Vaccinium</i> spp.) by spray drying: Characterization, stability and simulated gastrointestinal conditions. <i>Food Hydrocolloids</i> , <b>2019</b> , 89, 742-748	10.6	48
59	Rare earth elements profile in a cultivated and non-cultivated soil determined by laser ablation-inductively coupled plasma mass spectrometry. <i>Chemosphere</i> , <b>2018</b> , 198, 409-416	8.4	12
58	Response surface methodology approach for the optimization of tartrazine removal by heterogeneous photo-Fenton process using mesostructured Fe <sub>2</sub> O <sub>3</sub> -supported ZSM-5 prepared by chitin-templating. <i>Chemical Engineering Communications</i> , <b>2018</b> , 205, 445-455	2.2	20

57	Ultrasound-assisted extraction of rare-earth elements from carbonatite rocks. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 40, 24-29	8.9	31
56	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> , <b>2018</b> , 33, 1049-1056	3.7	6
55	A new approach to calibration and determination of selected trace elements in food contact polymers by LA-ICP-MS. <i>Talanta</i> , <b>2017</b> , 170, 488-495	6.2	21
54	Evaluation of calibration transfer methods using the ATR-FTIR technique to predict density of crude oil. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2017</b> , 166, 7-13	3.8	13
53	Determination of Br, Cl and I in honey using ICP-based techniques following microwave-assisted wet digestion with alkaline H <sub>2</sub> O <sub>2</sub> in a single reaction chamber. <i>Analytical Methods</i> , <b>2017</b> , 9, 649-654	3.2	8
52	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> , <b>2017</b> , 134, 257-261	4.8	24
51	Production of microcapsules containing Bifidobacterium BB-12 by emulsification/internal gelation. <i>LWT - Food Science and Technology</i> , <b>2017</b> , 76, 216-221	5.4	40
50	Microwave-induced combustion of high purity nuclear flexible graphite for the determination of potentially embrittling elements using atomic spectrometric techniques. <i>Microchemical Journal</i> , <b>2016</b> , 124, 321-325	4.8	10
49	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> , <b>2016</b> , 123, 10-5	3.5	14
48	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> , <b>2016</b> , 88, 1-15	1.4	15
47	Microwave-assisted wet digestion with H <sub>2</sub> O <sub>2</sub> at high temperature and pressure using single reaction chamber for elemental determination in milk powder by ICP-OES and ICP-MS. <i>Talanta</i> , <b>2016</b> , 156-157, 232-238	6.2	35
46	Determination of Chlorine in Crude Oil by High-Resolution Continuum Source Graphite Furnace Molecular Absorption Spectrometry Using AlCl, InCl, and SrCl Molecules. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 3637-3643	4.1	21
45	Simultaneous determination of iron and nickel in fluoropolymers by solid sampling high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Talanta</i> , <b>2016</b> , 160, 454-460	6.2	24
44	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> , <b>2015</b> , 30, 1822-1827	3.7	22
43	Determination of rare earth elements in graphite by solid sampling electrothermal vaporization-inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2015</b> , 30, 2048-2055	3.7	19
42	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> , <b>2015</b> , 136, 161-9	6.2	51
41	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> , <b>2015</b> , 7, 2129-2134	3.2	28
40	Rapid and facile preparation of zinc ferrite (ZnFe <sub>2</sub> O <sub>4</sub> ) oxide by microwave-solvothermal technique and its catalytic activity in heterogeneous photo-Fenton reaction. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 160, 141-147	4.4	49

39	A new method for chlorine determination in commercial pet food after decomposition by microwave-induced combustion. <i>Analytical Methods</i> , <b>2015</b> , 7, 4315-4320	3.2	16
38	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> , <b>2015</b> , 30, 260-266	3.7	28
37	Evaluation of Hg species after culinary treatments of fish. <i>Food Control</i> , <b>2015</b> , 47, 413-419	6.2	31
36	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> , <b>2015</b> , 2015, 795102	2	11
35	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> , <b>2015</b> , 7, 5218-5225	3.2	21
34	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> , <b>2015</b> , 105, 95-102	3.1	24
33	EFFECT OF ANTIOXIDANT POTENTIAL ON SEVERITY OF CIRRHOSIS IN HUMANS. <i>Nutricion Hospitalaria</i> , <b>2015</b> , 32, 2294-300	1	1
32	Wet Digestion Using Microwave Heating <b>2014</b> , 99-142		3
31	Feasibility of microwave-induced combustion for trace element determination in <i>Engraulis anchoita</i> by ICP-MS. <i>Food Chemistry</i> , <b>2014</b> , 145, 927-31	8.5	25
30	Feasibility of nut digestion using single reaction chamber for further trace element determination by ICP-OES. <i>Microchemical Journal</i> , <b>2014</b> , 116, 255-260	4.8	19
29	Combining pyrohydrolysis and ICP-MS for bromine and iodine determination in airborne particulate matter. <i>Microchemical Journal</i> , <b>2014</b> , 116, 225-229	4.8	20
28	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> , <b>2014</b> ,	1.5	2
27	Determination of Toxic Elements in Nuts by Inductively Coupled Plasma Mass Spectrometry after Microwave-Induced Combustion. <i>Food Analytical Methods</i> , <b>2013</b> , 6, 258-264	3.4	26
26	Determination of trace elements in fluoropolymers after microwave-induced combustion. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 374-80	7.8	39
25	Analytical methods for the determination of halogens in bioanalytical sciences: a review. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 7615-42	4.4	117
24	Application of Zn <sub>2</sub> SnO <sub>4</sub> photocatalyst prepared by microwave-assisted hydrothermal route in the degradation of organic pollutant under sunlight. <i>Ceramics International</i> , <b>2013</b> , 39, 4569-4574	5.1	54
23	Determination of Basic Nitrogen in Residues of Crude Oil Distillation Using ATR-FTIR and Chemometric Methods. <i>Analytical Letters</i> , <b>2013</b> , 46, 2879-2889	2.2	3
22	A single consumption of high amounts of the Brazil nuts improves lipid profile of healthy volunteers. <i>Journal of Nutrition and Metabolism</i> , <b>2013</b> , 2013, 653185	2.7	23

21	Determinação espectrofotométrica de cloreto em cimento após preparo de amostra por pirolise. <i>Química Nova</i> , <b>2013</b> , 36, 716-719	1.6	10
20	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> , <b>2012</b> , 89, 82-74-4	3.8	38
19	Pyrohydrolysis of carbon nanotubes for Br and I determination by ICP-MS. <i>Microchemical Journal</i> , <b>2012</b> , 101, 54-58	4.8	26
18	Determination of Bromide, Chloride, and Fluoride in Cigarette Tobacco by Ion Chromatography after Microwave-Induced Combustion. <i>Analytical Letters</i> , <b>2012</b> , 45, 1004-1015	2.2	36
17	Bromine and iodine determination in active pharmaceutical ingredients by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2012</b> , 27, 1889	3.7	46
16	Synthesis of ZnAl <sub>2</sub> O <sub>4</sub> nanoparticles by different routes and the effect of its pore size on the photocatalytic process. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 163, 29-33	5.3	81
15	Fluoride determination in carbon nanotubes by ion selective electrode. <i>Journal of the Brazilian Chemical Society</i> , <b>2012</b> , 23, 1193-1198	1.5	10
14	Assessment of inorganic contaminants in golden mussel ( <i>Limnoperna fortunei</i> ) in Southern Brazil. <i>Journal of the Brazilian Chemical Society</i> , <b>2012</b> , 23, 846-853	1.5	11
13	Simultaneous diffuse reflectance infrared determination of clavulanic acid and amoxicillin using multivariate calibration techniques. <i>Drug Testing and Analysis</i> , <b>2012</b> , 4, 500-6	3.5	9
12	Evaluation of oxygen pressurized microwave-assisted digestion of botanical materials using diluted nitric acid. <i>Talanta</i> , <b>2011</b> , 83, 1324-8	6.2	53
11	Determination of metal impurities in carbon nanotubes by direct solid sampling electrothermal atomic absorption spectrometry. <i>Journal of the Brazilian Chemical Society</i> , <b>2011</b> , 22, 1040-1049	1.5	21
10	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> , <b>2011</b> , 22, 1903-1912	1.5	28
9	Determination of toxic elements in coal by ICP-MS after digestion using microwave-induced combustion. <i>Talanta</i> , <b>2010</b> , 83, 364-9	6.2	57
8	Determination of Cd and Pb in medicinal plants using solid sampling flame atomic absorption spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2009</b> , 89, 129-140	1.8	14
7	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> , <b>2009</b> , 49, 800-5	3.5	33
6	Sr and Fe relationship with hormone replacement therapy and bone mineral density. <i>Clinica Chimica Acta</i> , <b>2007</b> , 384, 113-7	6.2	4
5	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> , <b>2005</b> , 60, 583-588	3.1	10
4	Direct solid sampling by flame atomic absorption spectrometry: determination of manganese in coal samples. <i>Journal of the Brazilian Chemical Society</i> , <b>2004</b> , 15, 199-204	1.5	7

3	Direct cadmium determination in sediment samples by flame atomic absorption spectrometry using multivariate calibration procedures. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2003</b> , 18, 769-774	3-7	13
2	Cadmium determination in biological samples by direct solid sampling flame atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2002</b> , 57, 2187-2193	3-1	17
1	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	0