

Danuta Baralkiewicz

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

82

papers

1,505

citations

21

h-index

35

g-index

84

ext. papers

1,744

ext. citations

4.7

avg, IF

5.2

L-index

#	Paper	IF	Citations
82	Bioimaging of Elements in Clinical Tissues: Oral Mucosa, Arterial Walls, and Teeth, by LA-ICPMS 2022 , 1-18		
81	LC/ICP-MS AND COMPLEMENTARY TECHNIQUES IN BESPOKE AND NONTARGETED SPECIATION ANALYSIS OF ELEMENTS IN FOOD SAMPLES. <i>Mass Spectrometry Reviews</i> , 2022 , 41, 32-50	11	10
80	Occurrence, distribution, and associations of essential and non-essential elements in the medicinal and edible fungus "Fuling" from southern China.. <i>Science of the Total Environment</i> , 2022 , 831, 155011	10.2	0
79	Multielemental speciation analysis of Cd ²⁺ , Pb ²⁺ and (CH ₃) ₃ Pb ⁺ in herb roots by HPLC/ICP-DRC-MS. Validation and application to real samples analysis. <i>Talanta Open</i> , 2022 , 100119	5.6	0
78	Bioimaging of Elements in Clinical Tissues: Oral Mucosa, Arterial Walls, and Teeth, by LA-ICPMS 2022 , 443-460		
77	Chemometric approach to find relationships between physiological elements and elements causing toxic effects in herb roots by ICP-MS. <i>Scientific Reports</i> , 2021 , 11, 20683	4.9	1
76	Lithiation of white button mushrooms (<i>Agaricus bisporus</i>) using lithium-fortified substrate: effect of fortification levels on Li uptake and on other trace elements. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 48905-48920	5.1	3
75	Enhancing the lithium content of white button mushrooms using LiNO fortified compost: effects on the uptake of Li and other trace elements. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2021 , 38, 1193-1205	3.2	5
74	The use of Li ₂ O fortified growing compost to enhance lithiation in white <i>Agaricus bisporus</i> mushrooms: Li uptake and co-accumulation of other trace elements. <i>European Food Research and Technology</i> , 2021 , 247, 2239-2252	3.4	4
73	Lithiation of mushrooms using compost fortified with LiOH: Effect of fortification levels on Li uptake and co-accumulation of other trace elements. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2021 , 56, 761-770	2.2	1
72	Toxic metals in human milk in relation to tobacco smoke exposure. <i>Environmental Research</i> , 2021 , 197, 111090	7.9	8
71	A new procedure for the determination of 21 macro- and trace elements in human fetal urine using an inductively coupled plasma mass spectrometry with dynamic reaction cell (ICP-DRC-MS) equipped with a micro-flow nebulizer. <i>Talanta</i> , 2021 , 222, 121672	6.2	4
70	Total Versus Inorganic and Organic Species of As, Cr, and Sb in Flavored and Functional Drinking Waters: Analysis and Risk Assessment. <i>Molecules</i> , 2020 , 25,	4.8	4
69	Arsenic species and their transformation pathways in marine plants. Usefulness of advanced hyphenated techniques HPLC/ICP-MS and UPLC/ESI-MS/MS in arsenic species analysis. <i>Talanta</i> , 2020 , 220, 121384	6.2	7
68	Combined use of companion planting and PGPR for the assisted phytoextraction of trace metals (Zn, Pb, Cd). <i>Environmental Science and Pollution Research</i> , 2020 , 27, 13809-13825	5.1	26
67	Metals and Metalloids Release from Orthodontic Elastomeric and Stainless Steel Ligatures: In Vitro Risk Assessment of Human Exposure. <i>Biological Trace Element Research</i> , 2020 , 196, 646-653	4.5	5
66	Arsenic and arsenic speciation in mushrooms from China: A review. <i>Chemosphere</i> , 2020 , 246, 125685	8.4	28

65	The contribution of orthodontic braces to aluminum exposure in humans: an experimental in vitro study. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 4541-4545	5.1	1
64	Metallic and metalloid elements in various developmental stages of <i>Amanita muscaria</i> (L.) Lam. <i>Fungal Biology</i> , 2020 , 124, 174-182	2.8	17
63	Accumulation of Airborne Toxic Elements and Photosynthetic Performance of <i>Lolium multiflorum</i> L. Leaves. <i>Processes</i> , 2020 , 8, 1013	2.9	2
62	Contents and Health Risk Assessment of Elements in Three Edible Ectomycorrhizal Fungi (Boletaceae) from Polymetallic Soils in Yunnan Province, SW China. <i>Biological Trace Element Research</i> , 2020 , 195, 250-259	4.5	11
61	Insight into the Phytoremediation Capability of (<i>v. Malopolska</i>): Metal Accumulation and Antioxidant Enzyme Activity. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	15
60	Arsenic speciation in mushrooms using dimensional chromatography coupled to ICP-MS detector. <i>Chemosphere</i> , 2019 , 233, 223-233	8.4	28
59	Associations between the Level of Trace Elements and Minerals and Folate in Maternal Serum and Amniotic Fluid and Congenital Abnormalities. <i>Nutrients</i> , 2019 , 11,	6.7	4
58	Total Arsenic and Arsenic Species Determination in Freshwater Fish by ICP-DRC-MS and HPLC/ICP-DRC-MS Techniques. <i>Molecules</i> , 2019 , 24,	4.8	12
57	Study on Speciation of As, Cr, and Sb in Bottled Flavored Drinking Water Samples Using Advanced Analytical Techniques IEC/SEC-HPLC/ICP-DRC-MS and ESI-MS/MS. <i>Molecules</i> , 2019 , 24,	4.8	9
56	Evaluation of Essential and Toxic Elements in Amniotic Fluid and Maternal Serum at Birth. <i>Biological Trace Element Research</i> , 2019 , 189, 45-54	4.5	9
55	Bioimaging of macro- and microelements in blood vessels with calcified plaque in atherosclerosis obliterans by LA-ICP-MS. <i>Microchemical Journal</i> , 2019 , 150, 104090	4.8	8
54	Mineral constituents of conserved white button mushrooms: similarities and differences. <i>Roczniki Panstwowego Zakladu Higieny</i> , 2019 , 70, 15-25	1.2	15
53	Key environmental factors for the conservation of large branchiopods in farmland vernal pools: a case from a Central European diversity hotspot. <i>Crustaceana</i> , 2019 , 92, 613-631	0.4	1
52	Relationship between pre-pregnancy body mass index and mineral concentrations in serum and amniotic fluid in pregnant women during labor. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019 , 52, 136-142	4.1	6
51	Metrological approach to quantitative analysis of clinical samples by LA-ICP-MS: A critical review of recent studies. <i>Talanta</i> , 2018 , 182, 92-110	6.2	17
50	Usefulness of laser ablation ICP-MS for analysis of metallic particles released to oral mucosa after insertion of dental implants. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018 , 46, 46-54	4.1	7
49	Influence of stormwater runoff on macroinvertebrates in a small urban river and a reservoir. <i>Science of the Total Environment</i> , 2018 , 625, 743-751	10.2	9
48	Laser ablation-ICP-MS in search of element pattern in feathers. <i>Microchemical Journal</i> , 2017 , 134, 1-8	4.8	9

47	Leaching of arsenic and sixteen metallic elements from Amanita fulva mushrooms after food processing. <i>LWT - Food Science and Technology</i> , 2017 , 84, 861-866	5.4	36
46	Multielemental analysis of 18 essential and toxic elements in amniotic fluid samples by ICP-MS: Full procedure validation and estimation of measurement uncertainty. <i>Talanta</i> , 2017 , 174, 122-130	6.2	18
45	Metallic elements and metalloids in Boletus luridus, B. magnificus and B. tomentipes mushrooms from polymetallic soils from SW China. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 142, 497-502	7	28
44	Specific accumulation of cadmium and other trace elements in Sarcodon imbricatus using ICP-MS with a chemometric approach. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2017 , 52, 361-366	2.2	24
43	Toxic elements and bio-metals in Cantharellus mushrooms from Poland and China. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 11472-11482	5.1	35
42	Accumulation and distribution of metallic elements and metalloids in edible Amanita fulva mushrooms. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 137, 265-271	7	21
41	Study of the impact of bottles material and color on the presence of As III , As V , Sb III , Sb V and Cr VI in matrix-rich mineral water [Multielemental speciation analysis by HPLC/ICP-DRC-MS. <i>Microchemical Journal</i> , 2017 , 132, 1-7	4.8	16
40	Pickling of chanterelle Cantharellus cibarius mushrooms highly reduce cadmium contamination. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 21733-21738	5.1	18
39	Effects of binary metal combinations on zinc, copper, cadmium and lead uptake and distribution in Brassica juncea. <i>Journal of Trace Elements in Medicine and Biology</i> , 2017 , 44, 32-39	4.1	38
38	New procedure of quantitative mapping of Ti and Al released from dental implant and Mg, Ca, Fe, Zn, Cu, Mn as physiological elements in oral mucosa by LA-ICP-MS. <i>Talanta</i> , 2017 , 175, 370-381	6.2	13
37	Study on quantitative analysis of Ti, Al and V in clinical soft tissues after placing the dental implants by laser ablation inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016 , 125, 1-10	3.1	7
36	Accurate quantification of total chromium and its speciation form Cr(VI) in water by ICP-DRC-IDMS and HPLC/ICP-DRC-IDMS. <i>Talanta</i> , 2016 , 152, 489-97	6.2	20
35	New procedure for multielemental speciation analysis of five toxic species: As(III), As(V), Cr(VI), Sb(III) and Sb(V) in drinking water samples by advanced hyphenated technique HPLC/ICP-DRC-MS. <i>Analytica Chimica Acta</i> , 2016 , 920, 102-11	6.6	24
34	Direct analysis of elemental biodistribution in pea seedlings by LA-ICP-MS, EDX and confocal microscopy: Imaging and quantification. <i>Microchemical Journal</i> , 2016 , 128, 305-311	4.8	20
33	Chemometric approach to evaluate element distribution in muscle, liver and fish bone of roach (Rutilus rutilus), silver bream (Blicca bjoerkna) and crucian carp (Carassius carassius) from Swarzędzkie Lake (Poland) using ICP-MS and FIAS-CVAAS techniques. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2016 , 51, 790-800	2.2	
32	Determination of total arsenic and arsenic species in drinking water, surface water, wastewater, and snow from Wielkopolska, Kujawy-Pomerania, and Lower Silesia provinces, Poland. <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 504	3.1	33
31	Multielemental speciation analysis by advanced hyphenated technique - HPLC/ICP-MS: A review. <i>Talanta</i> , 2016 , 161, 177-204	6.2	84
30	Study on multielemental speciation analysis of Cr(VI), As(III) and As(V) in water by advanced hyphenated technique HPLC/ICP-DRC-MS. Fast and reliable procedures. <i>Talanta</i> , 2015 , 144, 233-40	6.2	17

29	Heavy metal contents in the sediments of astatic ponds: Influence of geomorphology, hydroperiod, water chemistry and vegetation. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 118, 103-111	7	18
28	A summer school where master students learn the skills needed to work in an accredited analytical laboratory. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 6899-907	4.4	2
27	Chromium and its speciation in water samples by HPLC/ICP-MS--technique establishing metrological traceability: a review since 2000. <i>Talanta</i> , 2015 , 132, 814-28	6.2	108
26	Nickel and chromium concentrations in Italian ryegrass exposed to ambient air in urban, suburban and rural areas. <i>Atmospheric Pollution Research</i> , 2015 , 6, 1123-1131	4.5	2
25	Arsenic speciation in water by high-performance liquid chromatography/inductively coupled plasma mass spectrometry-method validation and uncertainty estimation. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 159-68	2.2	17
24	Barium determination in gastric contents, blood and urine by inductively coupled plasma mass spectrometry in the case of oral barium chloride poisoning. <i>Journal of Analytical Toxicology</i> , 2014 , 38, 380-2	2.9	12
23	Storm water contamination and its effect on the quality of urban surface waters. <i>Environmental Monitoring and Assessment</i> , 2014 , 186, 6789-803	3.1	41
22	Rhizoremediation of diesel-contaminated soil with two rapeseed varieties and petroleum degraders reveals different responses of the plant defense mechanisms. <i>International Journal of Phytoremediation</i> , 2014 , 16, 770-89	3.9	15
21	Laser ablation inductively coupled plasma mass spectrometry in quantitative analysis and imaging of plant thin sections. <i>International Journal of Mass Spectrometry</i> , 2014 , 363, 16-22	1.9	19
20	Are there different requirements for trace elements in eumelanin- and pheomelanin-based color production? A case study of two passerine species. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2014 , 175, 96-101	2.6	9
19	Over a century of detection and quantification capabilities in analytical chemistry--historical overview and trends. <i>Talanta</i> , 2014 , 129, 606-16	6.2	81
18	Contents of Cu, Zn, Cd, Pb and Fe in rainwater effluents discharged to surface waters in the city of Poznań <i>Journal of Elementology</i> , 2014 ,	1.3	2
17	Canonical Variate Analysis of Chlorophyll Content in Plants Exposed to Different Lead Concentrations in Ambient Air Conditions/ Analiza Zmiannych Kanonicznych Zawartości Chlorofilu W Roślinach Ekspozowanych Na Różne Stężenia Ołowiu W Powietrzu Atmosferycznym. <i>Civil and Environmental Engineering Reports</i> , 2014 , 14, 15-26	0.6	
16	Speciation analysis of chromium in drinking water samples by ion-pair reversed-phase HPLC/ICP-MS: validation of the analytical method and evaluation of the uncertainty budget. <i>Accreditation and Quality Assurance</i> , 2013 , 18, 391-401	0.7	37
15	Quantitative analysis of elements migration in human teeth with and without filling using LA-ICP-MS. <i>Microchemical Journal</i> , 2013 , 110, 61-69	4.8	28
14	Arsenic and its speciation in water samples by high performance liquid chromatography inductively coupled plasma mass spectrometry--last decade review. <i>Talanta</i> , 2011 , 84, 247-61	6.2	113
13	Application of spectroscopic techniques: ICP-OES, LA-ICP-MS and chemometric methods for studying the relationships between trace elements in clinical samples from patients with atherosclerosis obliterans. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 3221-31	4.4	27
12	Simultaneous determination of Cd, Cr, Cu, Ni, Pb and Zn in sewage sludge by slurry introduction ICP-OES method. <i>International Journal of Environmental Analytical Chemistry</i> , 2010 , 90, 1025-1035	1.8	9

11	Estimation of the lake water pollution by determination of 18 elements using ICP-MS method and their statistical analysis. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2010 , 45, 348-54	2.3	10
10	Determination of cadmium and lead species and phytochelatins in pea (<i>Pisum sativum</i>) by HPLC-ICP-MS and HPLC-ESI-MSn. <i>Talanta</i> , 2009 , 79, 493-8	6.2	38
9	An analysis of long-distance root to leaf transport of lead in <i>Pisum sativum</i> plants by laser ablation ICP-MS. <i>International Journal of Environmental Analytical Chemistry</i> , 2009 , 89, 651-659	1.8	18
8	Spatial distribution of major and trace elements in the water of Swarzedzkie Lake (Poland). <i>Environmental Monitoring and Assessment</i> , 2008 , 143, 327-36	3.1	10
7	ICP slurry introduction for simple and rapid determination of Pb, Mg and Ca in plant roots. <i>Open Chemistry</i> , 2007 , 5, 1148-1157	1.6	5
6	Determination of vanadium content in soils by slurry sampling electrothermal atomic absorption spectrometry using KO300G as the stabilizing agent. <i>Open Chemistry</i> , 2006 , 4, 363-374	1.6	3
5	Enhancing phytoremediative ability of <i>Pisum sativum</i> by EDTA application. <i>Phytochemistry</i> , 2003 , 64, 1239-51	4	89
4	Fast determination of lead in lake sediment samples using electrothermal atomic absorption spectrometry with slurry samples introduction. <i>Talanta</i> , 2002 , 56, 105-114	6.2	16
3	Fast determination of lead in lake sediment samples using electrothermal atomic absorption spectrometry with slurry samples introduction. <i>Talanta</i> , 2002 , 56, 105-14	6.2	
2	Slurry sampling for electrothermal atomic absorption spectrometric determination of chromium, nickel, lead and cadmium in sewage sludge. <i>Analytica Chimica Acta</i> , 2001 , 437, 11-16	6.6	18
1	Determination of trace amounts of molybdenum in water samples by graphite furnace atomic absorption spectrometry with multiple injections and cool down step. <i>Analytica Chimica Acta</i> , 1997 , 353, 85-89	6.6	20