

Danuta Baralkiewicz

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.

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	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
81	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
80	Enhancing phytoremediative ability of <i>Pisum sativum</i> by EDTA application. <i>Phytochemistry</i> , 2003 , 64, 1239-51	4	89
79	Multielemental speciation analysis by advanced hyphenated technique - HPLC/ICP-MS: A review. <i>Talanta</i> , 2016 , 161, 177-204	6.2	84
78	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
77	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
76	Effects of binary metal combinations on zinc, copper, cadmium and lead uptake and distribution in <i>Brassica juncea</i> . <i>Journal of Trace Elements in Medicine and Biology</i> , 2017 , 44, 32-39	4.1	38
75	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
74	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
73	Leaching of arsenic and sixteen metallic elements from <i>Amanita fulva</i> mushrooms after food processing. <i>LWT - Food Science and Technology</i> , 2017 , 84, 861-866	5.4	36
72	Toxic elements and bio-metals in <i>Cantharellus</i> mushrooms from Poland and China. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 11472-11482	5.1	35
71	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
70	Metallic elements and metalloids in <i>Boletus luridus</i> , <i>B. magnificus</i> and <i>B. tomentipes</i> mushrooms from polymetallic soils from SW China. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 142, 497-502	7	28
69	Arsenic speciation in mushrooms using dimensional chromatography coupled to ICP-MS detector. <i>Chemosphere</i> , 2019 , 233, 223-233	8.4	28
68	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
67	Arsenic and arsenic speciation in mushrooms from China: A review. <i>Chemosphere</i> , 2020 , 246, 125685	8.4	28
66	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

65	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
64	Specific accumulation of cadmium and other trace elements in <i>Sarcodon imbricatus</i> 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
63	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
62	Accumulation and distribution of metallic elements and metalloids in edible <i>Amanita fulva</i> mushrooms. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 137, 265-271	7	21
61	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
60	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
59	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
58	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
57	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
56	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
55	Pickling of chanterelle <i>Cantharellus cibarius</i> mushrooms highly reduce cadmium contamination. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 21733-21738	5.1	18
54	An analysis of long-distance root to leaf transport of lead in <i>Pisum sativum</i> plants by laser ablation ICPMS. <i>International Journal of Environmental Analytical Chemistry</i> , 2009 , 89, 651-659	1.8	18
53	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
52	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
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	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
49	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
48	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

47	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
46	Insight into the Phytoremediation Capability of (v. Malopolska): Metal Accumulation and Antioxidant Enzyme Activity. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	15
45	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
44	Mineral constituents of conserved white button mushrooms: similarities and differences. <i>Roczniki Panstwowego Zakladu Higieny</i> , 2019 , 70, 15-25	1.2	15
43	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
42	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
41	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
40	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
39	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
38	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
37	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
36	Laser ablation-ICP-MS in search of element pattern in feathers. <i>Microchemical Journal</i> , 2017 , 134, 1-8	4.8	9
35	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
34	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
33	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
32	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
31	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
30	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

29	Toxic metals in human milk in relation to tobacco smoke exposure. <i>Environmental Research</i> , 2021 , 197, 111090	7.9	8
28	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
27	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
26	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
25	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
24	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
23	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
22	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
21	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
20	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
19	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
18	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
17	Determination of vanadium content in soils by slurry sampling electrothermal atomic absorption spectrometry using KO ₃ OO ₆ as the stabilizing agent. <i>Open Chemistry</i> , 2006 , 4, 363-374	1.6	3
16	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
15	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
14	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
13	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
12	Accumulation of Airborne Toxic Elements and Photosynthetic Performance of <i>Lolium multiflorum</i> L. Leaves. <i>Processes</i> , 2020 , 8, 1013	2.9	2

11	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
10	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
9	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
8	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
7	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
6	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
5	Bioimaging of Elements in Clinical Tissues: Oral Mucosa, Arterial Walls, and Teeth, by LA-ICPMS 2022 , 1-18		
4	Canonical Variate Analysis of Chlorophyll Content in Plants Exposed to Different Lead Concentrations in Ambient Air Conditions/ Analiza Zmiennych Kanonicznych Zawartości Chlorofilu W Roślinach Ekspozowanych Na Różne Stężenia Ołowiu W Powietrzu Atmosferycznym. <i>Civil and Environmental Engineering</i> , 2021 , 17, 1-12	0.6	
3	Chemometric approach to evaluate element distribution in muscle, liver and fish bone of roach (<i>Rutilus rutilus</i>), silver bream (<i>Blicca bjoerkna</i>) and crucian carp (<i>Carassius carassius</i>) 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	
2	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	
1	Bioimaging of Elements in Clinical Tissues: Oral Mucosa, Arterial Walls, and Teeth, by LA-ICPMS 2022 , 443-460		