

# Danuta Barańska, kiewicz

## List of Publications by Year in descending order

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84  
papers

2,013  
citations

236925

25  
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289244

40  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chromium and its speciation in water samples by HPLC/ICP-MS " technique establishing metrological traceability: A review since 2000. <i>Talanta</i> , 2015, 132, 814-828.	5.5	138
2	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, 247-261.	5.5	122
3	Over a century of detection and quantification capabilities in analytical chemistry " Historical overview and trends. <i>Talanta</i> , 2014, 129, 606-616.	5.5	114
4	Multielemental speciation analysis by advanced hyphenated technique " HPLC/ICP-MS: A review. <i>Talanta</i> , 2016, 161, 177-204.	5.5	112
5	Enhancing phytoremediation ability of <i>Pisum sativum</i> by EDTA application. <i>Phytochemistry</i> , 2003, 64, 1239-1251.	2.9	94
6	Storm water contamination and its effect on the quality of urban surface waters. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 6789-6803.	2.7	58
7	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.	3.0	50
8	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.	2.7	47
9	Arsenic speciation in mushrooms using dimensional chromatography coupled to ICP-MS detector. <i>Chemosphere</i> , 2019, 233, 223-233.	8.2	46
10	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.	5.2	44
11	Determination of cadmium and lead species and phytochelatin in pea ( <i>Pisum sativum</i> ) by HPLC"ICP-MS and HPLC"ESI-MSn. <i>Talanta</i> , 2009, 79, 493-498.	5.5	43
12	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.	5.3	43
13	Combined use of companion planting and PGPR for the assisted phytoextraction of trace metals (Zn, Tj ETQq1 1 0,784314 rsgBT /Ove	5.3	42
14	Arsenic and arsenic speciation in mushrooms from China: A review. <i>Chemosphere</i> , 2020, 246, 125685.	8.2	41
15	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.	0.8	40
16	Quantitative analysis of elements migration in human teeth with and without filling using LA-ICP-MS. <i>Microchemical Journal</i> , 2013, 110, 61-69.	4.5	34
17	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, 3221-3231.	3.7	33
18	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, 348-354.	1.7	32

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19	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, 102-111.	5.4	31
20	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.	6.0	31
21	Insight into the Phytoremediation Capability of <i>Brassica juncea</i> (v. Malopolska): Metal Accumulation and Antioxidant Enzyme Activity. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4355.	4.1	29
22	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.	6.0	28
23	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.	4.5	28
24	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.	1.5	28
25	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.	6.0	26
26	Toxic metals in human milk in relation to tobacco smoke exposure. <i>Environmental Research</i> , 2021, 197, 111090.	7.5	26
27	Pickling of chanterelle <i>Cantharellus cibarius</i> mushrooms highly reduce cadmium contamination. <i>Environmental Science and Pollution Research</i> , 2017, 24, 21733-21738.	5.3	25
28	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.	5.4	24
29	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, 489-497.	5.5	23
30	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.	5.5	23
31	Metallic and metalloid elements in various developmental stages of <i>Amanita muscaria</i> (L.) Lam. <i>Fungal Biology</i> , 2020, 124, 174-182.	2.5	23
32	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.	3.3	22
33	Total Arsenic and Arsenic Species Determination in Freshwater Fish by ICP-DRC-MS and HPLC/ICP-DRC-MS Techniques. <i>Molecules</i> , 2019, 24, 607.	3.8	22
34	Laser ablation inductively coupled plasma mass spectrometry in quantitative analysis and imaging of plant's thin sections. <i>International Journal of Mass Spectrometry</i> , 2014, 363, 16-22.	1.5	21
35	Mineral constituents of conserved white button mushrooms: similarities and differences. <i>Roczniki Panstwowego Zakladu Higieny</i> , 2019, 70, 15-25.	0.7	21
36	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, 770-789.	3.1	20

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37	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, 233-240.	5.5	20
38	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.	5.5	20
39	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.	5.4	19
40	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, 380-382.	2.8	19
41	Fast determination of lead in lake sediment samples using electrothermal atomic absorption spectrometry with slurry samples introduction. <i>Talanta</i> , 2002, 56, 105-114.	5.5	18
42	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, 159-168.	1.5	18
43	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.	5.4	17
44	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.	4.5	16
45	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.	3.5	16
46	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.	8.0	15
47	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.	5.5	15
48	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.	5.5	15
49	Evaluation of Essential and Toxic Elements in Amniotic Fluid and Maternal Serum at Birth. <i>Biological Trace Element Research</i> , 2019, 189, 45-54.	3.5	13
50	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, 668.	3.8	13
51	Spatial distribution of major and trace elements in the water of Swarzędzkie Lake (Poland). <i>Environmental Monitoring and Assessment</i> , 2008, 143, 327-336.	2.7	12
52	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 &amp; Integrative Physiology</i> , 2014, 175, 96-101.	1.8	11
53	Laser ablation-ICP-MS in search of element pattern in feathers. <i>Microchemical Journal</i> , 2017, 134, 1-8.	4.5	11
54	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.	4.5	11

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55	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, 328.	4.1	11
56	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.	3.3	10
57	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.	3.0	10
58	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.	3.0	10
59	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.	5.3	9
60	The use of Li <sub>2</sub> 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.	3.3	9
61	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.	2.9	8
62	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.	3.5	8
63	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.	5.5	8
64	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, 1099.	3.8	7
65	Enhancing the lithium content of white button mushrooms <i>Agaricus bisporus</i> using LiNO <sub>3</sub> 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.	2.3	7
66	Occurrence, distribution, and associations of essential and non-essential elements in the medicinal and edible fungus <i>Fuling</i> from southern China. <i>Science of the Total Environment</i> , 2022, 831, 155011.	8.0	7
67	ICP slurry introduction for simple and rapid determination of Pb, Mg and Ca in plant roots. <i>Open Chemistry</i> , 2007, 5, 1148-1157.	1.9	6
68	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.	3.3	6
69	Alterations of Serum Magnesium Concentration in Animal Models of Seizures and Epilepsy—The Effects of Treatment with a GPR39 Agonist and Knockout of the Gpr39 Gene. <i>Cells</i> , 2022, 11, 1987.	4.1	5
70	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, 6899-6907.	3.7	4
71	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, .	0.2	4
72	Determination of vanadium content in soils by slurry sampling electrothermal atomic absorption spectrometry using KO <sub>3</sub> OOH as the stabilizing agent. <i>Open Chemistry</i> , 2006, 4, 363-374.	1.9	3

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73	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.	3.8	3
74	Lithiation of <i>Agaricus bisporus</i> 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.	1.5	3
75	Multielemental speciation analysis of Cd <sup>2+</sup> , Pb <sup>2+</sup> and (CH <sub>3</sub> ) <sub>3</sub> Pb <sup>+</sup> in herb roots by HPLC/ICP-DRC-MS. Validation and application to real samples analysis. <i>Talanta Open</i> , 2022, , 100119.	3.7	3
76	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.	5.3	2
77	Accumulation of Airborne Toxic Elements and Photosynthetic Performance of <i>Lolium multiflorum</i> L. Leaves. <i>Processes</i> , 2020, 8, 1013.	2.8	2
78	Association between the Concentrations of Essential and Toxic Elements in Mid-Trimester Amniotic Fluid and Fetal Chromosomal Abnormalities in Pregnant Polish Women. <i>Diagnostics</i> , 2022, 12, 979.	2.6	2
79	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.	1.5	1
80	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.	0.3	1
81	Fast determination of lead in lake sediment samples using electrothermal atomic absorption spectrometry with slurry samples introduction. <i>Talanta</i> , 2002, 56, 105-14.	5.5	1
82	Canonical Variate Analysis of Chlorophyll Content in Plants Exposed to Different Lead Concentrations in Ambient Air Conditions/ Analiza Zmiennych Kanonicznych Zawartości Chlorofilu W Roślinach Eksponowanych Na Różne Stężenia Ołowiu W Powietrzu Atmosferycznym. <i>Civil and Environmental Engineering Reports</i> , 2014, 14, 15-26.	0.3	0
83	Bioimaging of Elements in Clinical Tissues: Oral Mucosa, Arterial Walls, and Teeth, by LA-ICPMS. , 2022, , 1-18.		0
84	Bioimaging of Elements in Clinical Tissues: Oral Mucosa, Arterial Walls, and Teeth, by LA-ICPMS. , 2022, , 443-460.		0