Ewa Bulska

List of Publications by Year
in descending order

118 papers	2,248 citations	201385 27 h-index	288905 40 g-index
124 all docs	124 docs citations	124 times ranked	2818 citing authors

#	Article	IF	Citations
1	Determination of Mercury by Cold-Vapor Atomic Absorption Spectrometry with Preconcentration on a Gold-Trap.. Analytical Sciences, 2000, 16, 1309-1312.	0.8	126
2	Ectopic expression of Arabidopsis ABC transporter MRP7 modifies cadmium root-to-shoot transport and accumulation. Environmental Pollution, 2009, 157, 2781-2789.	3.7	113
3	HPLCâ€“ICP-MS speciation of selenium in enriched onion leaves â€“ a potential dietary source of Se-methylselenocysteine. Food Chemistry, 2004, 86, 617-623.	4.2	87
4	HMA4 expression in tobacco reduces Cd accumulation due to the induction of the apoplastic barrier. Journal of Experimental Botany, 2014, 65, 1125-1139.	2.4	78
5	In Vivo Investigation of the Distribution and the Local Speciation of Selenium inAlliumcepa L. by Means of Microscopic X-ray Absorption Near-Edge Structure Spectroscopy and Confocal Microscopic X-ray Fluorescence Analysis. Analytical Chemistry, 2006, 78, 7616-7624.	3.2	65
6	The role of subcellular distribution of cadmium and phytochelatins in the generation of distinct phenotypes of AtPCS1- and CePCS3-expressing tobacco. Journal of Plant Physiology, 2010, 167, 981-988.	1.6	62
7	Elimination of interferences in determination of platinum and palladium in environmental samples by inductively coupled plasma mass spectrometry. Analytica Chimica Acta, 2006, 564, 236-242.	2.6	52
8	Introducing Cobalt(II) Porphyrin/Cobalt(III) Corrole Containing Transducers for Improved Potential Reproducibility and Performance of All-Solid-State Ion-Selective Electrodes. Analytical Chemistry, 2017, 89, 7107-7114.	3.2	52
9	Metal response of transgenic tomato plantsexpressing P_{1B}â€ATPase. Physiologia Plantarum, 2012, 145, 315-331.	2.6	45
10	Laser Ablation Inductively Coupled Plasma Mass Spectrometry Assisted Insight into Ion-Selective Membranes. Analytical Chemistry, 2006, 78, 5584-5589.	3.2	42
11	Cu determination in crude oil distillation products by atomic absorption and inductively coupled plasma mass spectrometry after analyte transfer to aqueous solution. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 351-359.	1.5	41
12	Experimental study on stability of different solid contact arrangements of ion-selective electrodes. Talanta, 2010, 82, 151-157.	2.9	41
13	Expression of HvHMA2 in tobacco modifies Znâ€“Feâ€“Cd homeostasis. Journal of Plant Physiology, 2013, 170, 1176-1186.	1.6	40
14	Development of <scp>Z</scp>nâ€related necrosis in tobacco is enhanced by expressing <scp>AtHMA4</scp> and depends on the apoplastic <scp>Z</scp>n levels. Plant, Cell and Environment, 2013, 36, 1093-1104.	2.8	40
15	Complementary analysis of historical glass by scanning electron microscopy with energy dispersive X-ray spectroscopy and laser ablation inductively coupled plasma mass spectrometry. Mikrochimica Acta, 2008, 162, 415-424.	2.5	39
16	The ratio of Zn to Cd supply as a determinant of metal-homeostasis gene expression in tobacco and its modulation by overexpressing the metal exporter AtHMA4. Journal of Experimental Botany, 2016, 67, 6201-6214.	2.4	38
17	Composite Polyacrylateâ^Poly(3,4- ethylenedioxythiophene) Membranes for Improved All-Solid-State Ion-Selective Sensors. Analytical Chemistry, 2008, 80, 321-327.	3.2	37
18	Silver and lead all-plastic sensorsâ€”polyaniline vs. poly(3,4-ethyledioxythiophene) solid contact. Journal of Solid State Electrochemistry, 2009, 13, 99-106.	1.2	34

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19	Neurochemical and Behavioral Characteristics of Toxic Milk Mice: An Animal Model of Wilsonâ€™s Disease. Neurochemical Research, 2013, 38, 2037-2045.	1.6	34
20	Quantitative aspects of inductively coupled plasma mass spectrometry. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150369.	1.6	34
21	Dithizone Modified Gold Nanoparticles Films for Potentiometric Sensing. Analytical Chemistry, 2012, 84, 4437-4442.	3.2	33
22	Highly efficient and time economical purification of olefin metathesis products from metal residues using an isocyanide scavenger. Green Chemistry, 2018, 20, 1280-1289.	4.6	33
23	Atomic absorption spectrometric determination of mercury in soil standard reference material following microwave sample pretreatment. Mikrochimica Acta, 1995, 119, 137-146.	2.5	30
24	Investigation of biotransformation of selenium in plants using spectrometric methods. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 130, 7-16.	1.5	30
25	Tobacco Smoke Exposure During Pregnancy Increases Maternal Blood Lead Levels Affecting Neonate Birth Weight. Biological Trace Element Research, 2013, 155, 169-175.	1.9	28
26	Anti-mycobacterial activity of thymine derivatives bearing boron clusters. European Journal of Medicinal Chemistry, 2016, 121, 71-81.	2.6	28
27	Elemental imaging of heterogeneous inorganic archaeological samples by means of simultaneous laser induced breakdown spectroscopy and laser ablation inductively coupled plasma mass spectrometry measurements. Talanta, 2018, 179, 784-791.	2.9	28
28	Analytical advantages of using electrochemistry for atomic spectrometry. Pure and Applied Chemistry, 2001, 73, 1-7.	0.9	26
29	Use of solid-phase extraction to eliminate interferences in the determination of mercury by flow-injection CV AAS. Analytical and Bioanalytical Chemistry, 2003, 377, 735-739.	1.9	25
30	Poly(n-butyl acrylate) based lead (II) selective electrodes. Talanta, 2009, 79, 1247-1251.	2.9	24
31	Lenticular nucleus hyperechogenicity in Wilsonâ€™s disease reflects local copper, but not iron accumulation. Journal of Neural Transmission, 2014, 121, 1273-1279.	1.4	24
32	Inductively coupled plasma mass spectrometry in comparison with neutron activation and ion chromatography with UV/VIS detection for the determination of lanthanides in plant materials. Talanta, 2012, 97, 303-311.	2.9	23
33	Noncovalent Immobilization of Cationic Ruthenium Complex in a Metalâ€“Organic Framework by Ion Exchange Leading to a Heterogeneous Olefin Metathesis Catalyst for Use in Green Solvents. Organometallics, 2019, 38, 3397-3405.	1.1	23
34	An isocyanide ligand for the rapid quenching and efficient removal of copper residues after Cu/TEMPO-catalyzed aerobic alcohol oxidation and atom transfer radical polymerization. Chemical Science, 2020, 11, 4251-4262.	3.7	23
35	Analytical approach to the conservation of the ancient Egyptian manuscript â€œBakai Book of the Deadâ€: a case study. Mikrochimica Acta, 2007, 159, 101-108.	2.5	22
36	An analysis of long-distance root to leaf transport of lead inPisum sativumplants by laser ablationâ€“ICPâ€“MS. International Journal of Environmental Analytical Chemistry, 2009, 89, 651-659.	1.8	22

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37	On the use of certified reference materials for assuring the quality of results for the determination of mercury in environmental samples. Environmental Science and Pollution Research, 2017, 24, 7889-7897.	2.7	22
38	Reference measurements of cadmium and lead contents in candidates for new environmental certified materials by isotope dilution inductively coupled plasma mass spectrometry. Microchemical Journal, 2018, 142, 36-42.	2.3	22
39	Urinary metabolomic signature of muscle-invasive bladder cancer: A multiplatform approach. Talanta, 2019, 202, 572-579.	2.9	22
40	Semiheterogeneous Purification Protocol for the Removal of Ruthenium Impurities from Olefin Metathesis Reaction Products Using an Isocyanide Scavenger. Organic Process Research and Development, 2019, 23, 836-844.	1.3	22
41	Detection of Î²-methylphenethylamine, a novel doping substance, by means of UPLC/MS/MS. Analytical and Bioanalytical Chemistry, 2014, 406, 3681-3688.	1.9	21
42	Reference measurements for total mercury and methyl mercury content in marine biota samples using direct or species-specific isotope dilution inductively coupled plasma mass spectrometry. Talanta, 2016, 160, 562-569.	2.9	21
43	Quantifying Primary Silver Ions Contents in Poly(vinyl chloride) and Poly(nâ€butyl acrylate) Ionâ€Selective Membranes. Electroanalysis, 2009, 21, 1931-1938.	1.5	20
44	High precision direct analysis of magnesium isotope ratio by ion chromatography/multicollector-ICPMS using wet and dry plasma conditions. Talanta, 2017, 165, 64-68.	2.9	20
45	The use of a valid and straightforward method for the identification of higenamine in dietary supplements in view of antiâ€doping rule violation cases. Drug Testing and Analysis, 2019, 11, 912-917.	1.6	19
46	Minimally-invasive Laser Ablation Inductively Coupled Plasma Mass Spectrometry analysis of model ancient copper alloys. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 99, 115-120.	1.5	18
47	Investigation of Complexation and Solid-liquid Extraction of Ironfrom Paper by UV/VIS and Atomic Absorption Spectrometry. Mikrochimica Acta, 2001, 136, 61-66.	2.5	17
48	On the uniforming of the atomization process for inorganic and organic mercury in graphite furnace atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 269-272.	1.5	17
49	Metallurgical and chemical characterization of copper alloy reference materials within laser ablation inductively coupled plasma mass spectrometry: Method development for minimally-invasive analysis of ancient bronze objects. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 79-80, 17-30.	1.5	17
50	Organic Hydroxy Acids as Highly Oxygenated Molecular (HOM) Tracers for Aged Isoprene Aerosol. Environmental Science & Technology, 2019, 53, 14516-14527.	4.6	17
51	Allium cepa L. Response to Sodium Selenite (Se(IV)) Studied in Plant Roots by a LC-MS-Based Proteomic Approach. Journal of Agricultural and Food Chemistry, 2017, 65, 3995-4004.	2.4	16
52	Determination of Selenium Species in Muscle, Heart, and Liver Tissues of Lambs Using Mass Spectrometry Methods. Animals, 2020, 10, 808.	1.0	16
53	Magnesium distribution in paper subjected to deacidification investigated by means of Laser Ablation Inductively Coupled Plasma Mass Spectroscopy. Journal of Cultural Heritage, 2008, 9, 60-65.	1.5	15
54	A novel procedure of powdered samples immobilization and multi-point calibration of LA ICP MS. Journal of Analytical Atomic Spectrometry, 2011, 26, 1539.	1.6	15

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55	Neuronal TDP-43 depletion affects activity-dependent plasticity. Neurobiology of Disease, 2019, 130, 104499.	2.1	15
56	Analytical approach for the determination of steroid profile of humans by gas chromatography isotope ratio mass spectrometry aimed at distinguishing between endogenous and exogenous steroids. Journal of Pharmaceutical and Biomedical Analysis, 2015, 106, 159-166.	1.4	14
57	Design and synthesis of selective and blood-brain barrier-permeable hydroxamate-based gelatinase inhibitors. Bioorganic Chemistry, 2020, 94, 103365.	2.0	14
58	Chloride-Selective Electrodes with Poly(n-butyl acrylate) Based Membranes. Electroanalysis, 2007, 19, 393-397.	1.5	13
59	On-line separation of strontium from a matrix and determination of the 87Sr/86Sr ratio by Ion Chromatography/Multicollector-ICPMS. Journal of Analytical Atomic Spectrometry, 2016, 31, 1459-1463.	1.6	13
60	Novel Approach for the Accurate Determination of Se Isotope Ratio by Multicollector ICP-MS. Analytical Chemistry, 2020, 92, 16097-16104.	3.2	13
61	The matrix metalloproteinase inhibitor marimastat inhibits seizures in a model of kainic acid-induced status epilepticus. Scientific Reports, 2020, 10, 21314.	1.6	12
62	Magnesiumâ€“Isotope Fractionation in Chlorophyll-a Extracted from Two Plants with Different Pathways of Carbon Fixation (C3, C4). Molecules, 2020, 25, 1644.	1.7	12
63	Glassy faience from the Hallstatt C period in Poland: a chemico-physical study. Journal of Archaeological Science, 2014, 50, 288-304.	1.2	11
64	Seleno-compounds and Carnosic Acid Added to Diets with Rapeseed and Fish Oils Affect Concentrations of Selected Elements and Chemical Composition in the Liver, Heart and Muscles of Lambs. Biological Trace Element Research, 2018, 184, 378-390.	1.9	11
65	Detection of bemitil and its metabolite in urine by means of LCâ€“MS/MS in view of doping control analysis. Drug Testing and Analysis, 2018, 10, 1682-1688.	1.6	11
66	Potentiometric layered membranes. Sensors and Actuators B: Chemical, 2015, 207, 995-1003.	4.0	9
67	NO-Dependent programmed cell death is involved in the formation of Zn-related lesions in tobacco leaves. Metallomics, 2017, 9, 924-935.	1.0	9
68	Searching for Low Molecular Weight Seleno-Compounds in Sprouts by Mass Spectrometry. Molecules, 2020, 25, 2870.	1.7	9
69	Do we need education in metrology in chemistry?. Analytical and Bioanalytical Chemistry, 2003, 377, 588-589.	1.9	8
70	Microspheres aided introduction of ionophore and ion-exchanger to the ion-selective membrane. Talanta, 2012, 88, 66-72.	2.9	8
71	Composition data of a large collection of black-appearing Roman glass. Open Journal of Archaeometry, 2013, 1, 22.	0.2	8
72	Improving the Upper Detection Limit of Potentiometric Sensors. Electroanalysis, 2015, 27, 720-726.	1.5	8

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73	Comparative Evaluation of Red Wine from Various European Regions Using Mass Spectrometry Tools. Analytical Letters, 2018, 51, 2645-2659.	1.0	8
74	The impact of sample preparation on the elemental composition of soft tissues assessed by laser ablation ICP-MS. Journal of Analytical Atomic Spectrometry, 2020, 35, 1340-1350.	1.6	8
75	Molecular absorption and mass spectrometry for complementary analytical study of fluorinated drugs in animal organisms. Journal of Analytical Atomic Spectrometry, 2020, 35, 1840-1847.	1.6	8
76	Kairomone-like activity of bile and bile components: A step towards revealing the chemical nature of fish kairomone. Scientific Reports, 2020, 10, 7037.	1.6	8
77	Thallium Hyperaccumulation in Polish Populations of Biscutella laevigata (Brassicaceae). Acta Biologica Cracoviensia Series Botanica, 2016, 58, 7-19.	0.5	7
78	Direct determination of <scp>Î´^{44/42}Ca</scp> isotope ratio by ion chromatography/lowâ€resolution multicollector <scp>ICPMS</scp>. Journal of Mass Spectrometry, 2018, 53, 78-82.	0.7	7
79	ICP-MS analysis of diet supplementation influence on the elemental content of rat prostate gland. Monatshefte FÃ¼r Chemie, 2019, 150, 1681-1690.	0.9	7
80	Reference values of methyl mercury mass fractions in new type of environmental matrix-matching materials for speciation analysis assigned by species-specific isotope dilution inductively coupled plasma mass spectrometry and high-performance liquid chromatography. Microchemical Journal, 2019, 147, 674-681.	2.3	7
81	The effect of palladium modifier on the efficiency of antimony hydride trapping in graphite furnace atomic absorption spectrometry (AAS). Fresenius' Journal of Analytical Chemistry, 1998, 361, 43-46.	1.5	6
82	TrainMiC: an information platform as a tool for the education of metrology in chemistry. Accreditation and Quality Assurance, 2003, 8, 369-371.	0.4	6
83	Metrology in Chemistry. Lecture Notes in Quantum Chemistry II, 2018, , .	0.3	6
84	Reference measurements of mercury species in seafood using isotope dilution inductively coupled plasma mass spectrometry. Journal of Food Composition and Analysis, 2020, 86, 103381.	1.9	6
85	Comprehensive Protocol for the Identification and Characterization of New Psychoactive Substances in the Service of Law Enforcement Agencies. Frontiers in Chemistry, 2020, 8, 693.	1.8	6
86	An Improved Methodology for Determination of Fluorine in Biological Samples Using High-Resolution Molecular Absorption Spectrometry via Gallium Fluorine Formation in a Graphite Furnace. Applied Sciences (Switzerland), 2021, 11, 5493.	1.3	6
87	In vitro metabolic studies of novel selective androgen receptor modulators and their use for doping control analysis. Drug Testing and Analysis, 2021, , .	1.6	6
88	A Novel Approach for the Determination of the Ge Isotope Ratio Using Liquidâ€“Liquid Extraction and Hydride Generation by Multicollector Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2021, 93, 13548-13554.	3.2	6
89	Methodological aspects concerning sampling and determination of total selenium and selenium species in geothermal waters. Bulletin of Geography, Physical Geography Series, 2020, 18, 5-16.	0.3	6
90	Good oral presentation of scientific work. Analytical and Bioanalytical Chemistry, 2006, 385, 403-405.	1.9	5

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91	Determination of isotope fractionation of Cr(iii) during oxidation by LC/low-resolution MC-ICPMS. Journal of Analytical Atomic Spectrometry, 2020, 35, 560-566.	1.6	5
92	Calibration and Reference Samples in Trace Metals Determination in Serum by Graphite Furnace Atomic Absorption Spectrometry.. Analytical Sciences, 1992, 8, 405-409.	0.8	4
93	Performance of permanent iridium modifier in the presence of corrosive matrix in graphite furnace atomic absorption spectrometry. Fresenius' Journal of Analytical Chemistry, 2001, 371, 1079-1082.	1.5	4
94	Tips for effective poster presentations. Analytical and Bioanalytical Chemistry, 2006, 385, 1347-1349.	1.9	4
95	Geochemical investigation of alluvial sediments: validation of ICP-OES determination of heavy metals. A case study from the Utrata River Valley (central Poland). Open Chemistry, 2014, 12, 687-699.	1.0	4
96	A summer school where master students learn the skills needed to work in an accredited analytical laboratory. Analytical and Bioanalytical Chemistry, 2015, 407, 6899-6907.	1.9	4
97	Determination the Usefulness of AhHMA4p1::AhHMA4 Expression in Biofortification Strategies. Water, Air, and Soil Pollution, 2016, 227, 186.	1.1	4
98	Evaluation of the Role of Matrix Matching for LA-ICP-MS Calibration Approaches in Quantitative Elemental Analysis of Tooth Enamel. Journal of the Mexican Chemical Society, 2018, 62, .	0.2	4
99	Fluorine-Containing Drug Administration in Rats Results in Fluorination of Selected Proteins in Liver and Brain Tissue. International Journal of Molecular Sciences, 2022, 23, 4202.	1.8	4
100	Investigation of aging processes of graphite tubes modified with iridium and rhodium used for atomic spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1195-1202.	1.5	3
101	TrainMiCÂ®: a programme for life-long learning in metrology in chemistry. Accreditation and Quality Assurance, 2009, 14, 167-173.	0.4	3
102	Estimation of primary silver ions contents in poly(vinyl chloride) ion-selective membranes using chronopotentiometry and mass spectrometry. Electrochimica Acta, 2012, 73, 86-92.	2.6	3
103	Analytical procedure for steroid profiling valid for Athlete Biological Passport. Chemical Papers, 2015, 69, .	1.0	3
104	Insights into Primary Ion Exchange between Ion-Selective Membranes and Solution. From Altering Natural Isotope Ratios to Isotope Dilution Inductively Coupled Plasma Mass Spectrometry Studies. ACS Sensors, 2020, 5, 3930-3938.	4.0	3
105	Label-Free Mass Spectrometry-Based Proteomic Analysis in Lamb Tissues after Fish Oil, Carnosic Acid, and Inorganic Selenium Supplementation. Animals, 2022, 12, 1428.	1.0	3
106	Effects of species and sites on metal concentrations in byssal threads of two mytilids. International Journal of Environmental Analytical Chemistry, 2015, 95, 657-664.	1.8	2
107	Detection of ALDH3B2 in Human Placenta. International Journal of Molecular Sciences, 2019, 20, 6292.	1.8	2
108	Quality Assurance and Quality Control of Analytical Results. Analytical Chemistry Series, 2009, , 389-397.	0.0	2

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109	Role of selenium in pathophysiology of alcohol depenence - indications for supplementation. Journal of Elementology, 2014, , .	0.0	2
110	Key issues related to the accreditation of academic laboratories. Accreditation and Quality Assurance, 2021, 26, 285-291.	0.4	2
111	Cancer Influences the Elemental Composition of the Myocardium More Strongly than Conjugated Linoleic Acids-Chemometric Approach to Cardio-Oncological Studies. Molecules, 2021, 26, 7127.	1.7	2
112	Testing diverse strategies for ruthenium catalyst removal after aqueous homogeneous olefin metathesis. Journal of Organometallic Chemistry, 2022, 965-966, 122320.	0.8	2
113	Evaluation of the influence of diet supplementation with conjugated linoleic acid isomers on elemental composition in the cardio-oncological nutritional programming ratâ€™ model. Journal of Trace Elements in Medicine and Biology, 2021, 68, 126816.	1.5	1
114	TrainMiC_{Â®}: Providing a Tool for the Inter-Calibration of Technical Assessors in Europe in the Area of Chemical Measurements. Chimia, 2009, 63, 686-688.	0.3	0
115	Bioanalytics as a Tool Supporting the Functional Food Development. , 2022, , 1-19.		0
116	Mass Spectrometry-Based Proteomic Analysis in Neurodegenerative Disordersâ€™ Research. , 2022, , 27-48.		0
117	Laser Ablation Microsampling with ICP-MS Detection for Multielemental Bioimaging of Clinical Samples. , 2022, , 783-803.		0
118	Bioanalytics as a Tool Supporting the Functional Food Development. , 2022, , 627-645.		0