

Ewa Bulska

List of Publications by Year in descending order

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118
papers

2,248
citations

201674

27
h-index

289244

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.	1.6	126
2	Ectopic expression of Arabidopsis ABC transporter MRP7 modifies cadmium root-to-shoot transport and accumulation. Environmental Pollution, 2009, 157, 2781-2789.	7.5	113
3	HPLC-ICP-MS speciation of selenium in enriched onion leaves – a potential dietary source of Se-methylselenocysteine. Food Chemistry, 2004, 86, 617-623.	8.2	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.	4.8	78
5	In Vivo Investigation of the Distribution and the Local Speciation of Selenium in <i>Allium cepa</i> 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.	6.5	65
6	The role of subcellular distribution of cadmium and phytochelatin in the generation of distinct phenotypes of AtPCS1- and CePCS3-expressing tobacco. Journal of Plant Physiology, 2010, 167, 981-988.	3.5	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.	5.4	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.	6.5	52
9	Metal response of transgenic tomato plant expressing P _{1B} -ATPase. Physiologia Plantarum, 2012, 145, 315-331.	5.2	45
10	Laser Ablation Inductively Coupled Plasma Mass Spectrometry Assisted Insight into Ion-Selective Membranes. Analytical Chemistry, 2006, 78, 5584-5589.	6.5	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.	2.9	41
12	Experimental study on stability of different solid contact arrangements of ion-selective electrodes. Talanta, 2010, 82, 151-157.	5.5	41
13	Expression of HvHMA2 in tobacco modifies Zn-Fe-Cd homeostasis. Journal of Plant Physiology, 2013, 170, 1176-1186.	3.5	40
14	Development of Zn-related necrosis in tobacco is enhanced by expressing AtHMA4 and depends on the apoplastic Zn levels. Plant, Cell and Environment, 2013, 36, 1093-1104.	5.7	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.	5.0	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.	4.8	38
17	Composite Polyacrylate~Poly(3,4- ethylenedioxythiophene) Membranes for Improved All-Solid-State Ion-Selective Sensors. Analytical Chemistry, 2008, 80, 321-327.	6.5	37
18	Silver and lead all-plastic sensors – polyaniline vs. poly(3,4-ethylenedioxythiophene) solid contact. Journal of Solid State Electrochemistry, 2009, 13, 99-106.	2.5	34

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19	Neurochemical and Behavioral Characteristics of Toxic Milk Mice: An Animal Model of Wilson's Disease. <i>Neurochemical Research</i> , 2013, 38, 2037-2045.	3.3	34
20	Quantitative aspects of inductively coupled plasma mass spectrometry. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150369.	3.4	34
21	Dithizone Modified Gold Nanoparticles Films for Potentiometric Sensing. <i>Analytical Chemistry</i> , 2012, 84, 4437-4442.	6.5	33
22	Highly efficient and time economical purification of olefin metathesis products from metal residues using an isocyanide scavenger. <i>Green Chemistry</i> , 2018, 20, 1280-1289.	9.0	33
23	Atomic absorption spectrometric determination of mercury in soil standard reference material following microwave sample pretreatment. <i>Mikrochimica Acta</i> , 1995, 119, 137-146.	5.0	30
24	Investigation of biotransformation of selenium in plants using spectrometric methods. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 130, 7-16.	2.9	30
25	Tobacco Smoke Exposure During Pregnancy Increases Maternal Blood Lead Levels Affecting Neonate Birth Weight. <i>Biological Trace Element Research</i> , 2013, 155, 169-175.	3.5	28
26	Anti-mycobacterial activity of thymine derivatives bearing boron clusters. <i>European Journal of Medicinal Chemistry</i> , 2016, 121, 71-81.	5.5	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. <i>Talanta</i> , 2018, 179, 784-791.	5.5	28
28	Analytical advantages of using electrochemistry for atomic spectrometry. <i>Pure and Applied Chemistry</i> , 2001, 73, 1-7.	1.9	26
29	Use of solid-phase extraction to eliminate interferences in the determination of mercury by flow-injection CV AAS. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 735-739.	3.7	25
30	Poly(n-butyl acrylate) based lead (II) selective electrodes. <i>Talanta</i> , 2009, 79, 1247-1251.	5.5	24
31	Lenticular nucleus hyperechogenicity in Wilson's disease reflects local copper, but not iron accumulation. <i>Journal of Neural Transmission</i> , 2014, 121, 1273-1279.	2.8	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. <i>Talanta</i> , 2012, 97, 303-311.	5.5	23
33	Noncovalent Immobilization of Cationic Ruthenium Complex in a Metal-Organic Framework by Ion Exchange Leading to a Heterogeneous Olefin Metathesis Catalyst for Use in Green Solvents. <i>Organometallics</i> , 2019, 38, 3397-3405.	2.3	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. <i>Chemical Science</i> , 2020, 11, 4251-4262.	7.4	23
35	Analytical approach to the conservation of the ancient Egyptian manuscript "Bakai Book of the Dead" a case study. <i>Mikrochimica Acta</i> , 2007, 159, 101-108.	5.0	22
36	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

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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. <i>Environmental Science and Pollution Research</i> , 2017, 24, 7889-7897.	5.3	22
38	Reference measurements of cadmium and lead contents in candidates for new environmental certified materials by isotope dilution inductively coupled plasma mass spectrometry. <i>Microchemical Journal</i> , 2018, 142, 36-42.	4.5	22
39	Urinary metabolomic signature of muscle-invasive bladder cancer: A multiplatform approach. <i>Talanta</i> , 2019, 202, 572-579.	5.5	22
40	Semiheterogeneous Purification Protocol for the Removal of Ruthenium Impurities from Olefin Metathesis Reaction Products Using an Isocyanide Scavenger. <i>Organic Process Research and Development</i> , 2019, 23, 836-844.	2.7	22
41	Detection of \hat{I}^2 -methylphenethylamine, a novel doping substance, by means of UPLC/MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3681-3688.	3.7	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. <i>Talanta</i> , 2016, 160, 562-569.	5.5	21
43	Quantifying Primary Silver Ions Contents in Poly(vinyl chloride) and Poly(<i>n</i> -butyl acrylate) Ion-Selective Membranes. <i>Electroanalysis</i> , 2009, 21, 1931-1938.	2.9	20
44	High precision direct analysis of magnesium isotope ratio by ion chromatography/multicollector-ICPMS using wet and dry plasma conditions. <i>Talanta</i> , 2017, 165, 64-68.	5.5	20
45	The use of a valid and straightforward method for the identification of higenamine in dietary supplements in view of anti-doping rule violation cases. <i>Drug Testing and Analysis</i> , 2019, 11, 912-917.	2.6	19
46	Minimally-invasive Laser Ablation Inductively Coupled Plasma Mass Spectrometry analysis of model ancient copper alloys. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 115-120.	2.9	18
47	Investigation of Complexation and Solid-liquid Extraction of Iron from Paper by UV/VIS and Atomic Absorption Spectrometry. <i>Mikrochimica Acta</i> , 2001, 136, 61-66.	5.0	17
48	On the uniforming of the atomization process for inorganic and organic mercury in graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 269-272.	2.9	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. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 79-80, 17-30.	2.9	17
50	Organic Hydroxy Acids as Highly Oxygenated Molecular (HOM) Tracers for Aged Isoprene Aerosol. <i>Environmental Science & Technology</i> , 2019, 53, 14516-14527.	10.0	17
51	<i>Allium cepa</i> L. Response to Sodium Selenite (Se(IV)) Studied in Plant Roots by a LC-MS-Based Proteomic Approach. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 3995-4004.	5.2	16
52	Determination of Selenium Species in Muscle, Heart, and Liver Tissues of Lambs Using Mass Spectrometry Methods. <i>Animals</i> , 2020, 10, 808.	2.3	16
53	Magnesium distribution in paper subjected to deacidification investigated by means of Laser Ablation Inductively Coupled Plasma Mass Spectrometry. <i>Journal of Cultural Heritage</i> , 2008, 9, 60-65.	3.3	15
54	A novel procedure of powdered samples immobilization and multi-point calibration of LA ICP MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1539.	3.0	15

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55	Neuronal TDP-43 depletion affects activity-dependent plasticity. <i>Neurobiology of Disease</i> , 2019, 130, 104499.	4.4	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 106, 159-166.	2.8	14
57	Design and synthesis of selective and blood-brain barrier-permeable hydroxamate-based gelatinase inhibitors. <i>Bioorganic Chemistry</i> , 2020, 94, 103365.	4.1	14
58	Chloride-Selective Electrodes with Poly(n-butyl acrylate) Based Membranes. <i>Electroanalysis</i> , 2007, 19, 393-397.	2.9	13
59	On-line separation of strontium from a matrix and determination of the ⁸⁷ Sr/ ⁸⁶ Sr ratio by Ion Chromatography/Multicollector-ICPMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1459-1463.	3.0	13
60	Novel Approach for the Accurate Determination of Se Isotope Ratio by Multicollector ICP-MS. <i>Analytical Chemistry</i> , 2020, 92, 16097-16104.	6.5	13
61	The matrix metalloproteinase inhibitor marimastat inhibits seizures in a model of kainic acid-induced status epilepticus. <i>Scientific Reports</i> , 2020, 10, 21314.	3.3	12
62	Magnesiumâ€™ Isotope Fractionation in Chlorophyll-a Extracted from Two Plants with Different Pathways of Carbon Fixation (C3, C4). <i>Molecules</i> , 2020, 25, 1644.	3.8	12
63	Glassy faience from the Hallstatt C period in Poland: a chemico-physical study. <i>Journal of Archaeological Science</i> , 2014, 50, 288-304.	2.4	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. <i>Biological Trace Element Research</i> , 2018, 184, 378-390.	3.5	11
65	Detection of bemitil and its metabolite in urine by means of LCâ€™MS/MS in view of doping control analysis. <i>Drug Testing and Analysis</i> , 2018, 10, 1682-1688.	2.6	11
66	Potentiometric layered membranes. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 995-1003.	7.8	9
67	NO-Dependent programmed cell death is involved in the formation of Zn-related lesions in tobacco leaves. <i>Metallomics</i> , 2017, 9, 924-935.	2.4	9
68	Searching for Low Molecular Weight Seleno-Compounds in Sprouts by Mass Spectrometry. <i>Molecules</i> , 2020, 25, 2870.	3.8	9
69	Do we need education in metrology in chemistry?. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 588-589.	3.7	8
70	Microspheres aided introduction of ionophore and ion-exchanger to the ion-selective membrane. <i>Talanta</i> , 2012, 88, 66-72.	5.5	8
71	Composition data of a large collection of black-appearing Roman glass. <i>Open Journal of Archaeometry</i> , 2013, 1, 22.	0.2	8
72	Improving the Upper Detection Limit of Potentiometric Sensors. <i>Electroanalysis</i> , 2015, 27, 720-726.	2.9	8

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73	Comparative Evaluation of Red Wine from Various European Regions Using Mass Spectrometry Tools. <i>Analytical Letters</i> , 2018, 51, 2645-2659.	1.8	8
74	The impact of sample preparation on the elemental composition of soft tissues assessed by laser ablation ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1340-1350.	3.0	8
75	Molecular absorption and mass spectrometry for complementary analytical study of fluorinated drugs in animal organisms. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1840-1847.	3.0	8
76	Kairomone-like activity of bile and bile components: A step towards revealing the chemical nature of fish kairomone. <i>Scientific Reports</i> , 2020, 10, 7037.	3.3	8
77	Thallium Hyperaccumulation in Polish Populations of <i>Biscutella laevigata</i> (Brassicaceae). <i>Acta Biologica Cracoviensia Series Botanica</i> , 2016, 58, 7-19.	0.5	7
78	Direct determination of $^{44/42}\text{Ca}$ isotope ratio by ion chromatography/resolution multicollector ICPMS. <i>Journal of Mass Spectrometry</i> , 2018, 53, 78-82.	1.6	7
79	ICP-MS analysis of diet supplementation influence on the elemental content of rat prostate gland. <i>Monatshefte für Chemie</i> , 2019, 150, 1681-1690.	1.8	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. <i>Microchemical Journal</i> , 2019, 147, 674-681.	4.5	7
81	The effect of palladium modifier on the efficiency of antimony hydride trapping in graphite furnace atomic absorption spectrometry (AAS). <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 361, 43-46.	1.5	6
82	TrainMiC: an information platform as a tool for the education of metrology in chemistry. <i>Accreditation and Quality Assurance</i> , 2003, 8, 369-371.	0.8	6
83	Metrology in Chemistry. <i>Lecture Notes in Quantum Chemistry II</i> , 2018, , .	0.3	6
84	Reference measurements of mercury species in seafood using isotope dilution inductively coupled plasma mass spectrometry. <i>Journal of Food Composition and Analysis</i> , 2020, 86, 103381.	3.9	6
85	Comprehensive Protocol for the Identification and Characterization of New Psychoactive Substances in the Service of Law Enforcement Agencies. <i>Frontiers in Chemistry</i> , 2020, 8, 693.	3.6	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. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5493.	2.5	6
87	In vitro metabolic studies of novel selective androgen receptor modulators and their use for doping control analysis. <i>Drug Testing and Analysis</i> , 2021, , .	2.6	6
88	A Novel Approach for the Determination of the Ge Isotope Ratio Using Liquid-Liquid Extraction and Hydride Generation by Multicollector Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 13548-13554.	6.5	6
89	Methodological aspects concerning sampling and determination of total selenium and selenium species in geothermal waters. <i>Bulletin of Geography, Physical Geography Series</i> , 2020, 18, 5-16.	0.6	6
90	Good oral presentation of scientific work. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 403-405.	3.7	5

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91	Determination of isotope fractionation of Cr(III) during oxidation by LC/low-resolution MC-ICPMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 560-566.	3.0	5
92	Calibration and Reference Samples in Trace Metals Determination in Serum by Graphite Furnace Atomic Absorption Spectrometry. <i>Analytical Sciences</i> , 1992, 8, 405-409.	1.6	4
93	Performance of permanent iridium modifier in the presence of corrosive matrix in graphite furnace atomic absorption spectrometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 371, 1079-1082.	1.5	4
94	Tips for effective poster presentations. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1347-1349.	3.7	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). <i>Open Chemistry</i> , 2014, 12, 687-699.	1.9	4
96	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
97	Determination the Usefulness of AhHMA4p1::AhHMA4 Expression in Biofortification Strategies. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 186.	2.4	4
98	Evaluation of the Role of Matrix Matching for LA-ICP-MS Calibration Approaches in Quantitative Elemental Analysis of Tooth Enamel. <i>Journal of the Mexican Chemical Society</i> , 2018, 62, .	0.6	4
99	Fluorine-Containing Drug Administration in Rats Results in Fluorination of Selected Proteins in Liver and Brain Tissue. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4202.	4.1	4
100	Investigation of aging processes of graphite tubes modified with iridium and rhodium used for atomic spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 1195-1202.	2.9	3
101	TrainMiCÂ®: a programme for life-long learning in metrology in chemistry. <i>Accreditation and Quality Assurance</i> , 2009, 14, 167-173.	0.8	3
102	Estimation of primary silver ions contents in poly(vinyl chloride) ion-selective membranes using chronopotentiometry and mass spectrometry. <i>Electrochimica Acta</i> , 2012, 73, 86-92.	5.2	3
103	Analytical procedure for steroid profiling valid for Athlete Biological Passport. <i>Chemical Papers</i> , 2015, 69, .	2.2	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. <i>ACS Sensors</i> , 2020, 5, 3930-3938.	7.8	3
105	Label-Free Mass Spectrometry-Based Proteomic Analysis in Lamb Tissues after Fish Oil, Carnosic Acid, and Inorganic Selenium Supplementation. <i>Animals</i> , 2022, 12, 1428.	2.3	3
106	Effects of species and sites on metal concentrations in byssal threads of two mytilids. <i>International Journal of Environmental Analytical Chemistry</i> , 2015, 95, 657-664.	3.3	2
107	Detection of ALDH3B2 in Human Placenta. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6292.	4.1	2
108	Quality Assurance and Quality Control of Analytical Results. <i>Analytical Chemistry Series</i> , 2009, , 389-397.	0.0	2

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109	Role of selenium in pathophysiology of alcohol dependence - indications for supplementation. Journal of Elementology, 2014, , .	0.2	2
110	Key issues related to the accreditation of academic laboratories. Accreditation and Quality Assurance, 2021, 26, 285-291.	0.8	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.	3.8	2
112	Testing diverse strategies for ruthenium catalyst removal after aqueous homogeneous olefin metathesis. Journal of Organometallic Chemistry, 2022, 965-966, 122320.	1.8	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.	3.0	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.	0.6	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