

# Irina B Karadjova

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/837484/publications.pdf>

Version: 2024-02-01

75  
papers

1,980  
citations

218677

26  
h-index

254184

43  
g-index

79  
all docs

79  
docs citations

79  
times ranked

2301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Noble metal nanocomposites as tools for fast and reliable speciation analysis of mercury in water samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 1152-1170.	3.3	1
2	Pollen and Chemical Content of Beebreads from Serpentine Areas in Albania and Bulgaria. <i>Biological Trace Element Research</i> , 2022, 200, 413-425.	3.5	6
3	<sc>Fe(II)</sc> ion-imprinted copolymer gels as smart materials for <sc>Fe(II)/Fe(III)</sc> speciation in surface waters. <i>Polymer International</i> , 2022, 71, 706-714.	3.1	4
4	Determination of the Elements Composition in <i>Sempervivum tectorum</i> L. from Bulgaria. <i>Horticulturae</i> , 2021, 7, 306.	2.8	4
5	Raffinose Capped Silver Nanoparticles: A New Localized Surface Plasmon Resonance Based Sensor for Selective Quantification of Cr(VI) in Waste Waters. <i>Molecules</i> , 2021, 26, 5418.	3.8	2
6	Optical Properties and Antioxidant Activity of Water-Ethanol Extracts from <i>Sempervivum tectorum</i> L. from Bulgaria. <i>Horticulturae</i> , 2021, 7, 520.	2.8	3
7	Ecology of <i>Teucrium</i> Species: Habitat Related Metal Content Dynamics. , 2020, , 73-110.		0
8	New composite sorbent for speciation analysis of soluble chromium in textiles. <i>Open Chemistry</i> , 2019, 17, 1095-1104.	1.9	3
9	Iron(II) ion imprinted polymer for Fe(II)/Fe(III) speciation in wine. <i>Microchemical Journal</i> , 2017, 132, 238-244.	4.5	24
10	Cisplatin delivery vehicles based on stabilized polymeric aggregates comprising poly(acrylic acid) chains. <i>Polymer Journal</i> , 2017, 49, 607-615.	2.7	5
11	Quantification of Selected Trace and Mineral Elements in Royal Jelly from Bulgaria by Icp-Oes and Etaas. <i>Journal of Apicultural Science</i> , 2017, 61, 223-232.	0.4	5
12	Application of Starch-Stabilized Silver Nanoparticles as a Colorimetric Sensor for Mercury(II) in 0.005 mol/L Nitric Acid. <i>Journal of Chemistry</i> , 2017, 2017, 1-9.	1.9	33
13	Nanomaterials for elemental speciation. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1949-1973.	3.0	29
14	Self-standing chitosan film loaded with silver nanoparticles as a tool for selective determination of Cr(VI) by ICP-MS. <i>Microchemical Journal</i> , 2016, 129, 23-28.	4.5	18
15	Chitosan film loaded with silver nanoparticles as sorbent for solid phase extraction of Al(III), Cd(II), Cu(II), Co(II), Fe(III), Ni(II), Pb(II) and Zn(II). <i>Carbohydrate Polymers</i> , 2016, 147, 45-52.	10.2	44
16	Chromate surface-imprinted silica gel sorbent for speciation of Cr in surface waters. <i>Turkish Journal of Chemistry</i> , 2016, 40, 921-932.	1.2	6
17	Essential and toxic element concentrations in <i>Hypericum perforatum</i> . <i>Australian Journal of Botany</i> , 2015, 63, 152.	0.6	17
18	Polymeric ion-imprinted nanoparticles for mercury speciation in surface waters. <i>Microchemical Journal</i> , 2014, 113, 42-47.	4.5	46

#	ARTICLE	IF	CITATIONS
19	Submicron silica spheres decorated with silver nanoparticles as a new effective sorbent for inorganic mercury in surface waters. <i>Analyst</i> , 2014, 139, 1532.	3.5	30
20	Characterization of polymeric system for cisplatin delivery – analytical methods for Pt determination. <i>Open Chemistry</i> , 2013, 11, 1548-1553.	1.9	0
21	Toxic Element Profiles in Selected Medicinal Plants Growing on Serpentine in Bulgaria. <i>Biological Trace Element Research</i> , 2013, 156, 288-297.	3.5	22
22	Ecotoxicological Assessment Model of Cultural Plant-Soil Complex Treated with Waste Water. <i>Biotechnology and Biotechnological Equipment</i> , 2012, 26, 2883-2893.	1.3	2
23	Non-chromatographic mercury speciation and determination in wine by new core-shell ion-imprinted sorbents. <i>Journal of Hazardous Materials</i> , 2012, 231-232, 49-56.	12.4	29
24	Synthesis and application of vinylpyridine containing ion-imprinted copolymer gel microbeads for solid-phase extraction. <i>Journal of Separation Science</i> , 2012, 35, 2805-2812.	2.5	13
25	Chemical analysis of <i>Teucrium</i> species (Lamiaceae) growing on serpentine soils in Bulgaria. <i>Journal of Plant Nutrition and Soil Science</i> , 2012, 175, 891-899.	1.9	12
26	Solid-phase extraction in the determination of gold, palladium, and platinum. <i>Journal of Separation Science</i> , 2012, 35, 1249-1265.	2.5	72
27	Column solid phase extraction and determination of ultra-trace Au, Pd and Pt in environmental and geological samples. <i>Microchemical Journal</i> , 2012, 101, 59-64.	4.5	46
28	Mercury determination and speciation analysis in surface waters. <i>Open Chemistry</i> , 2012, 10, 1175-1182.	1.9	11
29	Chitosan membranes as sorbents for trace elements determination in surface waters. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1633-1643.	5.3	21
30	Synthesis of starch-stabilized silver nanoparticles and their application as a surface plasmon resonance-based sensor of hydrogen peroxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 382, 203-210.	4.7	207
31	Solid phase extraction and diffusive gradients in thin films techniques for determination of total and labile concentrations of Cd(II), Cu(II), Ni(II) and Pb(II) in Black Sea water. <i>International Journal of Environmental Analytical Chemistry</i> , 2011, 91, 62-73.	3.3	14
32	Polycarboxylic microsphere polymer gel for solid phase extraction of trace elements. <i>Mikrochimica Acta</i> , 2009, 164, 55-61.	5.0	23
33	Trace Metal Speciation and Bioavailability in Surface Waters of the Black Sea Coastal Area Evaluated by HF-PLM and DGT. <i>Environmental Science &amp; Technology</i> , 2009, 43, 1798-1803.	10.0	49
34	Ion-imprinted polymethacrylic microbeads as new sorbent for preconcentration and speciation of mercury. <i>Talanta</i> , 2009, 78, 523-529.	5.5	101
35	Determination of inorganic and methylmercury in fish by cold vapor atomic absorption spectrometry and inductively coupled plasma atomic emission spectrometry. <i>Microchemical Journal</i> , 2008, 89, 42-47.	4.5	62
36	Determination of Trace Metals in Bulgarian Lavender Oil by Electrothermal Atomic Absorption Spectrometry. <i>Journal of Essential Oil Research</i> , 2008, 20, 549-555.	2.7	9

#	ARTICLE	IF	CITATIONS
37	The biouptake and toxicity of arsenic species on the green microalga <i>Chlorella salina</i> in seawater. <i>Aquatic Toxicology</i> , 2008, 87, 264-271.	4.0	129
38	Solid phase selective separation and preconcentration of Cu(II) by Cu(II)-imprinted polymethacrylic microbeads. <i>Analytica Chimica Acta</i> , 2007, 584, 196-203.	5.4	100
39	Determination of trace elements in the Lavender inflorescence ( <i>Lavandula angustifolia</i> Mill.) – Lavender oil system. <i>Microchemical Journal</i> , 2007, 86, 119-123.	4.5	15
40	Arsenic in marine tissues – The challenging problems to electrothermal and hydride generation atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 258-268.	2.9	28
41	On chromium direct ETAAS determination in serum and urine. <i>Open Chemistry</i> , 2007, 5, 230-238.	1.9	6
42	On the determination of lead in wine by electrothermal atomic absorption spectrometry. <i>Open Chemistry</i> , 2007, 5, 739-747.	1.9	6
43	Determination of lead in wine by hydride generation atomic fluorescence spectrometry in the presence of hexacyanoferrate(III). <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 801-807.	3.7	29
44	Liquid/liquid extraction and column solid phase extraction procedures for iron species determination in wines. <i>Food Control</i> , 2006, 17, 484-488.	5.5	29
45	Determination of total arsenic and toxicologically relevant arsenic species in fish by using electrothermal and hydride generation atomic absorption spectrometry. <i>Microchemical Journal</i> , 2006, 83, 55-60.	4.5	37
46	Organic solvents as interferences in arsenic determination by hydride generation atomic absorption spectrometry with flame atomization. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 525-531.	2.9	17
47	Continuous flow hydride generation-atomic fluorescence spectrometric determination and speciation of arsenic in wine. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 816-823.	2.9	65
48	Determination of Inorganic and Total Arsenic in Wines by Hydride Generation Atomic Absorption Spectrometry. <i>Mikrochimica Acta</i> , 2005, 149, 55-60.	5.0	34
49	Electrothermal atomic absorption spectrometric determination of arsenic in essential lavender and rose oils. <i>Talanta</i> , 2005, 65, 1015-1021.	5.5	10
50	Sensitive Method for Trace Determination of Mercury in Wines Using Electrothermal Atomic Absorption Spectrometry. <i>Mikrochimica Acta</i> , 2004, 147, 39-43.	5.0	32
51	Preconcentration procedures for trace cadmium determination in natural aqueous systems prior to zeeman etaas. <i>International Journal of Environmental Analytical Chemistry</i> , 2003, 83, 1009-1019.	3.3	6
52	Behavior of Volatile Elements in the Graphite Furnace in the Presence of Silver as Matrix Modifier. <i>Spectroscopy Letters</i> , 2003, 36, 441-447.	1.0	2
53	Determination of arsenic and mercury in sunflower oil by electrothermal atomic absorption. <i>Food Additives and Contaminants</i> , 2002, 19, 948-953.	2.0	13
54	ETAAS determination of nickel in serum and urine. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 310-313.	3.7	15

#	ARTICLE	IF	CITATIONS
55	Fractionation and speciation of Cu, Zn and Fe in wine samples by atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 581-590.	2.9	104
56	Determination of thallium in wine by electrothermal atomic absorption spectrometry after extraction preconcentration. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 1101-1106.	2.9	26
57	Determination of trace metals in high purity gold. <i>Fresenius' Journal of Analytical Chemistry</i> , 2000, 367, 146-150.	1.5	12
58	Electrothermal atomic absorption spectrometric determination of trace elements in high-purity silver after total and partial reductive separation of the matrix. <i>Fresenius' Journal of Analytical Chemistry</i> , 2000, 367, 207-209.	1.5	1
59	Determination of Cd, Co, Cr, Cu, Fe, Mn, Ni and Pb in natural waters, alkali and alkaline earth salts by electrothermal atomic absorption spectrometry after preconcentration by column solid phase extraction. <i>Mikrochimica Acta</i> , 1999, 130, 185-190.	5.0	22
60	ETAAS determination of Cd and Pb in plants. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 360, 246-251.	1.5	8
61	Electrothermal atomic absorption spectrometric determination of aluminium, cadmium, chromium, copper, iron, manganese, nickel and lead in olive oil. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 201-204.	3.0	87
62	ET-AAS in the Analysis of high-purity mercury. <i>Mikrochimica Acta</i> , 1997, 127, 225-228.	5.0	1
63	ET-AAS Determination of Trace Analytes in High Purity Bismuth and Tellurium Oxides. <i>Microchemical Journal</i> , 1996, 54, 144-153.	4.5	1
64	Reductive precipitation as a separation method for the determination of trace elements in tellurium oxide and bismuth oxide by flame and electrothermal AAS. <i>Fresenius' Journal of Analytical Chemistry</i> , 1995, 352, 604-605.	1.5	4
65	Determination of mercury by electrothermal atomic absorption spectrometry using different chemical modifiers or a slurry technique. <i>Journal of Analytical Atomic Spectrometry</i> , 1995, 10, 1065.	3.0	45
66	Reductive coprecipitation and extraction as separation methods for the determination of gold in copper concentrates by AAS and ICP-AES. <i>Fresenius' Journal of Analytical Chemistry</i> , 1993, 347, 480-482.	1.5	20
67	Benzoxazolylacrolein derivatives as ligands for extraction atomic absorption analysis. <i>Mikrochimica Acta</i> , 1993, 111, 215-222.	5.0	1
68	Behaviour of cadmium, cobalt and lead in chlorine-containing organic solvents in electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1993, 8, 85.	3.0	24
69	Monomeric cadmium(II), cobalt(II), copper(II), nickel(II) and zinc(II) complexes with derivatives of benzoxazolylaldehydes. <i>Polyhedron</i> , 1992, 11, 2525-2529.	2.2	3
70	Chemical modification of volatile elements in organic solvents and extracts by dithiocarbamate and complexes of noble metals in electrothermal atomic absorption spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1992, 47, 959-970.	2.9	26
71	Extraction system for flame atomic absorption spectrometric analysis of high-purity bismuth compounds. <i>Analytica Chimica Acta</i> , 1991, 244, 123-127.	5.4	9
72	Solvent extraction of cadmium, cobalt, copper, iron, manganese, nickel and zinc into isobutyl methyl ketone with 2-(2-benzoxazolyl)malonaldehyde and 2-(2-benzoxazolyl)cynoacetaldehyde. Extraction-atomic absorption spectrometric determination of trace amounts of the metals in molybdates. <i>Analyst, The</i> , 1990, 115, 1539.	3.5	5

#	ARTICLE	IF	CITATIONS
73	Electrothermal atomic absorption spectrometric determination of metallic impurities in platinum and palladium. <i>Journal of Analytical Atomic Spectrometry</i> , 1990, 5, 195.	3.0	13
74	Monohalogenobenzoylhydrazones as ligands in extraction-atomic absorption spectrometry. <i>Analyst</i> , 1988, 113, 1699.	3.5	10
75	Model for designed emission spectroscopic determination of trace metals in pure substances after coprecipitation with cadmium sulphide. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1985, 320, 330-333.	0.8	2