

Ilia Rodushkin

List of Publications by Year in descending order

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107
papers

5,189
citations

61857

43
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95083

68
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108
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108
docs citations

108
times ranked

4963
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of double focusing sector field ICP-MS for multielemental characterization of human hair and nails. Part II. A study of the inhabitants of northern Sweden†. <i>Science of the Total Environment</i> , 2000, 262, 21-36.	3.9	297
2	An inter-laboratory comparison of Si isotope reference materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 561-568.	1.6	224
3	Comparison of two digestion methods for elemental determinations in plant material by ICP techniques. <i>Analytica Chimica Acta</i> , 1999, 378, 191-200.	2.6	152
4	Application of double focusing sector field ICP-MS for multielemental characterization of human hair and nails. Part I. Analytical methodology. <i>Science of the Total Environment</i> , 2000, 250, 83-100.	3.9	144
5	Determination of 60 elements in whole blood by sector field inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 937-944.	1.6	139
6	Intercomparison of Boron Isotope and Concentration Measurements. Part II: Evaluation of Results. <i>Geostandards and Geoanalytical Research</i> , 2003, 27, 41-57.	1.7	139
7	Determination of Trace Metals in Estuarine and Sea-water Reference Materials by High Resolution Inductively Coupled Plasma Mass Spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 1181-1185.	1.6	129
8	Improved multi-elemental analyses by inductively coupled plasma-sector field mass spectrometry through methane addition to the plasma. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 1250.	1.6	115
9	Revised exponential model for mass bias correction using an internal standard for isotope abundance ratio measurements by multi-collector inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 427.	1.6	115
10	Iron isotope fractionation in river colloidal matter. <i>Earth and Planetary Science Letters</i> , 2006, 245, 792-798.	1.8	114
11	Performance of high resolution MC-ICP-MS for Fe isotope ratio measurements in sedimentary geological materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 687-695.	1.6	107
12	Multielement analysis of whole blood by high resolution inductively coupled plasma mass spectrometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 364, 338-346.	1.5	105
13	Isotopic Fractionation during Diffusion of Transition Metal Ions in Solution. <i>Analytical Chemistry</i> , 2004, 76, 2148-2151.	3.2	101
14	Sources of mass bias and isotope ratio variation in multi-collector ICP-MS: optimization of instrumental parameters based on experimental observations. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 1217-1224.	1.6	98
15	Sublethal Lead Exposure Alters Movement Behavior in Free-Ranging Golden Eagles. <i>Environmental Science & Technology</i> , 2017, 51, 5729-5736.	4.6	97
16	Blood, Urine, and Sweat (BUS) Study: Monitoring and Elimination of Bioaccumulated Toxic Elements. <i>Archives of Environmental Contamination and Toxicology</i> , 2011, 61, 344-357.	2.1	94
17	Isotopic analysis of the metabolically relevant transition metals Cu, Fe and Zn in human blood from vegetarians and omnivores using multi-collector ICP-mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1327.	1.6	93
18	Toxic Element Contamination of Natural Health Products and Pharmaceutical Preparations. <i>PLoS ONE</i> , 2012, 7, e49676.	1.1	89

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19	Cu isotopes in marine black shales record the Great Oxidation Event. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4941-4946.	3.3	88
20	Application of double focusing sector field ICP-MS for multielemental characterization of human hair and nails. Part III. Direct analysis by laser ablation. <i>Science of the Total Environment</i> , 2003, 305, 23-39.	3.9	87
21	Levels of inorganic constituents in raw nuts and seeds on the Swedish market. <i>Science of the Total Environment</i> , 2008, 392, 290-304.	3.9	84
22	Multi-elemental characterization of soft biological tissues by inductively coupled plasma sector field mass spectrometry. <i>Analytica Chimica Acta</i> , 2004, 521, 123-135.	2.6	81
23	Determination of low-abundance elements at ultra-trace levels in urine and serum by inductively coupled plasma sector field mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 380, 247-257.	1.9	75
24	Simultaneous measurements of As, Mo, Sb, V and W using a ferrihydrite diffusive gradients in thin films (DGT) device. <i>Analytica Chimica Acta</i> , 2010, 682, 59-65.	2.6	70
25	Multielement analysis of coal by ICP techniques using solution nebulization and laser ablation. <i>Talanta</i> , 2000, 51, 743-759.	2.9	67
26	Multielemental analysis of Mn-Fe nodules by ICP-MS: optimisation of analytical method. <i>Analyst</i> , 2002, 127, 76-82.	1.7	67
27	Temporal isotopic variations of dissolved silicon in a pristine boreal river. <i>Chemical Geology</i> , 2010, 271, 142-152.	1.4	67
28	Separation of plutonium from soil and sediment prior to determination by inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1426.	1.6	65
29	Analyte- and matrix-dependent elemental response variations in laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 1223-1230.	1.6	60
30	Non-spectral interferences caused by a saline water matrix in quadrupole and high resolution inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 159-166.	1.6	59
31	Chromatographic Purification for the Determination of Dissolved Silicon Isotopic Compositions in Natural Waters by High-Resolution Multicollector Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 250-257.	3.2	59
32	Isotopic Variations of Zn in Biological Materials. <i>Analytical Chemistry</i> , 2004, 76, 3971-3978.	3.2	58
33	Molybdenum isotope ratio measurements on geological samples by MC-ICPMS. <i>International Journal of Mass Spectrometry</i> , 2005, 245, 94-107.	0.7	58
34	Sources of contamination and remedial strategies in the multi-elemental trace analysis laboratory. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 365-377.	1.9	58
35	Application of inductively coupled plasma sector field mass spectrometry for elemental analysis of urine. <i>Journal of Trace Elements in Medicine and Biology</i> , 2001, 14, 241-247.	1.5	57
36	The use of Pt guard electrode in inductively coupled plasma sector field mass spectrometry: advantages and limitations. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 359-364.	1.6	53

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37	The Benefits and Risks of Consuming Brewed Tea: Beware of Toxic Element Contamination. <i>Journal of Toxicology</i> , 2013, 2013, 1-8.	1.4	52
38	Multi-element analysis of wild berries from northern Sweden by ICP techniques. <i>Science of the Total Environment</i> , 1999, 231, 53-65.	3.9	49
39	Determination of major and trace elements in sphalerite using laser ablation double focusing sector field ICP-MS. <i>Journal of Geochemical Exploration</i> , 2001, 72, 81-89.	1.5	47
40	Isotope abundance ratio measurements by inductively coupled plasma-sector field mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1355.	1.6	46
41	Cadmium isotope ratio measurements in environmental matrices by MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1570-1584.	1.6	46
42	Analyte- and matrix-dependent elemental response variations in laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 1231-1239.	1.6	45
43	Measurement of iron and zinc isotopes in human whole blood: Preliminary application to the study of HFE genotypes. <i>Journal of Trace Elements in Medicine and Biology</i> , 2005, 19, 55-60.	1.5	45
44	Assessment of the contamination from devices used for sampling and storage of whole blood and serum for element analysis. <i>Journal of Trace Elements in Medicine and Biology</i> , 2001, 15, 40-45.	1.5	43
45	EVIDENCE FOR THE POSSIBLE EXISTENCE OF A LONG-LIVED SUPERHEAVY NUCLEUS WITH ATOMIC MASS NUMBER A = 292 AND ATOMIC NUMBER Z = 122 IN NATURAL Th . <i>International Journal of Modern Physics E</i> , 2010, 19, 131-140.	0.4	43
46	Tellurium in the environment: current knowledge and identification of gaps. <i>Environmental Chemistry</i> , 2019, 16, 215.	0.7	43
47	Separation of Fe from whole blood matrix for precise isotopic ratio measurements by MC-ICP-MS: a comparison of different approaches. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 23-28.	1.6	42
48	Authentication of Kalix (N.E. Sweden) vendace caviar using inductively coupled plasma-based analytical techniques: Evaluation of different approaches. <i>Analytica Chimica Acta</i> , 2007, 583, 310-318.	2.6	42
49	A concise guide for the determination of less-studied technology-critical elements (Nb, Ta, Ga, In, Ge,) ^{Tj ETQq1 1 0.784314 rgBT /Ove} Part B: Atomic Spectroscopy, 2018, 141, 80-84.	1.5	42
50	Multielement Determination and Lead Isotope Ratio Measurement in Alcoholic Beverages by High-Resolution Inductively Coupled Plasma Mass Spectrometry. <i>Journal of Food Composition and Analysis</i> , 1999, 12, 243-257.	1.9	39
51	Silicon isotopic composition of boreal forest vegetation in Northern Sweden. <i>Chemical Geology</i> , 2008, 257, 247-256.	1.4	37
52	Isotopic analyses by ICP-MS in clinical samples. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2785-2797.	1.9	37
53	Methylmercury Measurement in Whole Blood by Isotope-Dilution GC-ICPMS with 2 Sample Preparation Methods. <i>Clinical Chemistry</i> , 2007, 53, 111-116.	1.5	35
54	An apple a day? Assessing gardeners' lead exposure in urban agriculture sites to improve the derivation of soil assessment criteria. <i>Environment International</i> , 2019, 122, 130-141.	4.8	34

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55	Performance characteristics of a tandem spray chamber arrangement in double focusing sector field ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 727-729.	1.6	33
56	Copper and iron isotope fractionation in mine tailings at the Laver and Kristineberg mines, northern Sweden. <i>Applied Geochemistry</i> , 2013, 32, 204-215.	1.4	33
57	Simplified method for the Re ¹⁸⁷ /Os dating of molybdenite using acid digestion and isotope dilution ICP-MS. <i>Analytica Chimica Acta</i> , 2002, 463, 111-124.	2.6	32
58	Osmium in environmental samples from Northeast Sweden. Part II. Identification of anthropogenic sources. <i>Science of the Total Environment</i> , 2007, 386, 159-168.	3.9	32
59	Method for fractional solid-waste sampling and chemical analysis. <i>International Journal of Environmental Analytical Chemistry</i> , 2007, 87, 321-335.	1.8	31
60	Sub ¹⁰ B Interlaboratory Consistency for Solution ¹¹ B Based Boron Isotope Analyses on Marine Carbonates. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 59-75.	1.7	31
61	Size distribution of colloidal trace metals and organic carbon during a coastal bloom in the Baltic Sea. <i>Marine Chemistry</i> , 2004, 91, 117-130.	0.9	30
62	EXISTENCE OF LONG-LIVED ISOTOPES OF A SUPERHEAVY ELEMENT IN NATURAL Au. <i>International Journal of Modern Physics E</i> , 2009, 18, 621-629.	0.4	28
63	Determination of total chlorine and bromine in solid wastes by sintering and inductively coupled plasma-sector field mass spectrometry. <i>Waste Management</i> , 2009, 29, 1258-1264.	3.7	26
64	Assessment of the natural variability of B, Cd, Cu, Fe, Pb, Sr, Tl and Zn concentrations and isotopic compositions in leaves, needles and mushrooms using single sample digestion and two-column matrix separation. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 220-233.	1.6	26
65	Sources of Uncertainty in Isotope Ratio Measurements by Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 2911-2919.	3.2	25
66	Heavy metal contamination of prenatal vitamins. <i>Toxicology Reports</i> , 2018, 5, 390-395.	1.6	24
67	Ion-Specific Isotopic Fractionation of Molybdenum during Diffusion in Aqueous Solutions. <i>Environmental Science & Technology</i> , 2007, 41, 1596-1600.	4.6	23
68	PROVENANCING FLINT ARTEFACTS WITH ICP-MS USING REE SIGNATURES AND Pb ISOTOPES AS DISCRIMINANTS: PRELIMINARY RESULTS OF A CASE STUDY FROM NORTHERN SWEDEN. <i>Archaeometry</i> , 2011, 53, 1142-1170.	0.6	23
69	Iron isotope pathways in the boreal landscape: Role of the riparian zone. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 239, 49-60.	1.6	23
70	Aluminium migration to orange juice in laminated paperboard packages. <i>Journal of Food Composition and Analysis</i> , 2005, 18, 365-374.	1.9	22
71	Application of double-focusing sector field ICP-MS for determination of ultratrace constituents in samples characterized by complex composition of the matrix. <i>Science of the Total Environment</i> , 2018, 622-623, 203-213.	3.9	21
72	Effects of sample preparation and calibration strategy on accuracy and precision in the multi-elemental analysis of soil by sector-field ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 858-866.	1.6	20

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73	Aluminium in the surface waters of the Kola Peninsula, Russia. <i>Science of the Total Environment</i> , 1995, 163, 55-59.	3.9	19
74	Platinum, palladium, rhodium, molybdenum and strontium in blood of urban women in nine countries. <i>International Journal of Hygiene and Environmental Health</i> , 2018, 221, 223-230.	2.1	18
75	Material Characterization and Influence of Sliding Speed and Pressure on Friction and Wear Behavior of Self-Lubricating Bearing Materials for Hydropower Applications. <i>Lubricants</i> , 2018, 6, 39.	1.2	18
76	Osmium in environmental samples from Northeast Sweden. <i>Science of the Total Environment</i> , 2007, 386, 145-158.	3.9	17
77	Elemental and isotopic characterization of cane and beet sugars. <i>Journal of Food Composition and Analysis</i> , 2011, 24, 70-78.	1.9	17
78	Capabilities of high resolution inductively coupled plasma mass spectrometry for trace element determination in plant sample digests. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 362, 541-546.	1.5	16
79	Trace and major elements in food supplements of different origin: Implications for daily intake levels and health risks. <i>Toxicology Reports</i> , 2021, 8, 1067-1080.	1.6	16
80	Seasonal shift of diet in bank voles explains trophic fate of anthropogenic osmium?. <i>Science of the Total Environment</i> , 2018, 624, 1634-1639.	3.9	15
81	Low-level environmental metal pollution is associated with altered gut microbiota of a wild rodent, the bank vole (<i>Myodes glareolus</i>). <i>Science of the Total Environment</i> , 2021, 790, 148224.	3.9	15
82	Performance of diffusive gradients in thin films for measurement of the isotopic composition of soluble Zn. <i>Analytica Chimica Acta</i> , 2005, 537, 401-405.	2.6	14
83	Evaluation of Simultaneous Analyte Leaching/Vapour Phase Introduction for Direct Osmium Isotope Ratio Measurements in Solid Samples by Double-Focusing Sector Field ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2007, 31, 27-38.	2.0	13
84	Uptake and Accumulation of Anthropogenic Os in Free-Living Bank Voles (<i>Myodes glareolus</i>). <i>Water, Air, and Soil Pollution</i> , 2011, 218, 603-610.	1.1	13
85	On the application of ICP-MS techniques for measuring uranium and plutonium: a Nordic inter-laboratory comparison exercise. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 315, 565-580.	0.7	13
86	High concentrations of lead (Pb) in blood and milk of free-ranging brown bears (<i>Ursus arctos</i>) in Scandinavia. <i>Environmental Pollution</i> , 2021, 287, 117595.	3.7	13
87	Assessment of the LeadCare [®] Plus for Use on Scandinavian Brown Bears (<i>Ursus arctos</i>). <i>Frontiers in Veterinary Science</i> , 2019, 6, 285.	0.9	12
88	Measuring 0.01‰ to 0.1‰ isotopic variations by MC-ICPMS – testing limits for the first time with Pb δ^{208} -iCRMs. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 407.	1.6	11
89	Serum/plasma methylmercury determination by isotope dilution gas chromatography-inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2011, 701, 134-138.	2.6	11
90	Isotopic signature of Cu and Fe during bioleaching and electrochemical leaching of a chalcopyrite concentrate. <i>International Journal of Mineral Processing</i> , 2015, 134, 58-65.	2.6	11

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91	Distribution of Fe isotopes in particles and colloids in the salinity gradient along the Lena River plume, Laptev Sea. <i>Biogeosciences</i> , 2019, 16, 1305-1319.	1.3	11
92	Spatio-temporal variation of metals and organic contaminants in bank voles (<i>Myodes glareolus</i>). <i>Science of the Total Environment</i> , 2020, 713, 136353.	3.9	11
93	Evaluation of a Multi-Isotope Approach as a Complement to Concentration Data within Environmental Forensics. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 37.	0.8	11
94	The role of bacterial consortium and organic amendment in Cu and Fe isotope fractionation in plants on a polluted mine site. <i>Environmental Science and Pollution Research</i> , 2014, 21, 6836-6844.	2.7	10
95	High spatial resolution analysis of ferromanganese concretions by LA-ICP-MS. <i>Geochemical Transactions</i> , 2002, 3, 1.	1.8	9
96	Chromium isotope ratio measurements in environmental matrices by MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1464-1471.	1.6	9
97	A high-throughput method for the determination of Os concentrations and isotope ratio measurements in small-size biological samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1591.	1.6	8
98	Longitudinal isotope ratio variations in human hair and nails. <i>Science of the Total Environment</i> , 2022, 808, 152059.	3.9	8
99	Determination of rhenium and osmium concentrations in molybdenite using laser ablation double focusing sector field ICP-MS. <i>Journal of Geochemical Exploration</i> , 2004, 81, 71-79.	1.5	7
100	Ranges of B, Cd, Cr, Cu, Fe, Pb, Sr, Tl, and Zn Concentrations and Isotope Ratios in Environmental Matrices from an Urban Area. <i>Journal of Spectroscopy</i> , 2018, 2018, 1-17.	0.6	6
101	Early diagenesis of anthropogenic uranium in lakes receiving deep groundwater from the Kiruna mine, northern Sweden. <i>Science of the Total Environment</i> , 2021, 793, 148441.	3.9	6
102	Validation of a field filtration technique for characterization of suspended particulate matter from freshwater. Part II. Minor, trace and ultra trace elements. <i>Applied Geochemistry</i> , 2006, 21, 2112-2134.	1.4	5
103	Feed premix: a difficult matrix for the accurate determination of trace elements – the outcome of IMEP-114 and IMEP-36. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2014, 31, 63-72.	1.1	4
104	Elemental stable isotope assessment of groundwater contamination: Recent developments. <i>Current Opinion in Environmental Science and Health</i> , 2022, 26, 100330.	2.1	3
105	Inorganic Constituents of Nuts and Seeds. , 2011, , 65-72.		1
106	The Stability of Fe-Isotope Signatures During Low Salinity Mixing in Subarctic Estuaries. <i>Aquatic Geochemistry</i> , 2019, 25, 195-218.	1.5	1
107	Calibration approaches for trace element determination. <i>Comprehensive Analytical Chemistry</i> , 2003, 41, 47-92.	0.7	0