

Ryszard Lobinski

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83
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ext. papers

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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
214	Guidelines for terms related to chemical speciation and fractionation of elements. Definitions, structural aspects, and methodological approaches (IUPAC Recommendations 2000). <i>Pure and Applied Chemistry</i> , 2000 , 72, 1453-1470	2.1	676
213	Metallomics: the concept and methodology. <i>Chemical Society Reviews</i> , 2009 , 38, 1119-38	58.5	265
212	Mass spectrometry in bioinorganic analytical chemistry. <i>Mass Spectrometry Reviews</i> , 2006 , 25, 255-89	11	173
211	Optimization of comprehensive speciation of organotin compounds in environmental samples by capillary gas chromatography helium microwave-induced plasma emission spectrometry. <i>Analytical Chemistry</i> , 1992 , 64, 159-165	7.8	131
210	Hyphenated techniques for elemental speciation in biological systems. <i>Applied Spectroscopy</i> , 2003 , 57, 102A-112A	3.1	128
209	Identification of water-soluble selenium-containing proteins in selenized yeast by size-exclusion-reversed-phase HPLC/ICPMS followed by MALDI-TOF and electrospray Q-TOF mass spectrometry. <i>Analytical Chemistry</i> , 2003 , 75, 3765-74	7.8	123
208	Speciation of nickel in a hyperaccumulating plant by high-performance liquid chromatography-inductively coupled plasma mass spectrometry and electrospray MS/MS assisted by cloning using yeast complementation. <i>Analytical Chemistry</i> , 2003 , 75, 2740-5	7.8	122
207	Biosynthesis of a broad-spectrum nicotianamine-like metallophore in <i>Staphylococcus aureus</i> . <i>Science</i> , 2016 , 352, 1105-9	33.3	119
206	Sample preparation and HPLC separation approaches to speciation analysis of selenium in yeast by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 645-650	3.7	118
205	Ascorbate efflux as a new strategy for iron reduction and transport in plants. <i>Journal of Biological Chemistry</i> , 2014 , 289, 2515-25	5.4	115
204	Root-to-shoot long-distance circulation of nicotianamine and nicotianamine-nickel chelates in the metal hyperaccumulator <i>Thlaspi caerulescens</i> . <i>Journal of Experimental Botany</i> , 2006 , 57, 4111-22	7	111
203	Microwave-Assisted Leaching of Organotin Compounds from Sediments for Speciation Analysis. <i>Analytical Chemistry</i> , 1995 , 67, 4250-4254	7.8	110
202	Speciation analysis of selenium in garlic by two-dimensional high-performance liquid chromatography with parallel inductively coupled plasma mass spectrometric and electrospray tandem mass spectrometric detection. <i>Analytica Chimica Acta</i> , 2000 , 421, 147-153	6.6	103
201	Determination of selenomethionine and selenocysteine in human serum using speciated isotope dilution-capillary HPLC-inductively coupled plasma collision cell mass spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 6635-42	7.8	101
200	Development of a sheathless interface between reversed-phase capillary HPLC and ICPMS via a microflow total consumption nebulizer for selenopeptide mapping. <i>Analytical Chemistry</i> , 2003 , 75, 6837-42	7.8	95
199	Rapid speciation of butyltin compounds in sediments and biomaterials by capillary gas chromatography-microwave-induced plasma atomic emission spectrometry after microwave-assisted leaching/digestion. <i>Journal of Analytical Atomic Spectrometry</i> , 1996 , 11, 193-199	3.7	94
198	An approach to the identification of selenium species in yeast extracts using pneumatically-assisted electrospray tandem mass spectrometry. <i>Analytical Communications</i> , 1999 , 36, 77-80		92

197	Determination of selenocysteine and selenomethionine in edible animal tissues by 2D size-exclusion reversed-phase HPLC-ICP MS following carbamidomethylation and proteolytic extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 1789-98	4.4	90
196	Gas chromatography with inductively coupled plasma mass spectrometric detection in speciation analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002 , 57, 805-828	3.1	89
195	Reactivity of anticancer metallodrugs with serum proteins: new insights from size exclusion chromatography-ICP-MS and ESI-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 305-313	3.7	88
194	Speciation of selenium in selenium-enriched shiitake mushroom, <i>Lentinula edodes</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 379, 861-6	4.4	87
193	Investigation of metallodrug-protein interactions by size-exclusion chromatography coupled with inductively coupled plasma mass spectrometry (ICP-MS). <i>Analytica Chimica Acta</i> , 1999 , 387, 135-144	6.6	87
192	Precise determination of the strontium isotope ratios in wine by inductively coupled plasma sector field multicollector mass spectrometry (ICP-SF-MC-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 135-137	3.7	86
191	A common highly conserved cadmium detoxification mechanism from bacteria to humans: heavy metal tolerance conferred by the ATP-binding cassette (ABC) transporter SpHMT1 requires glutathione but not metal-chelating phytochelatin peptides. <i>Journal of Biological Chemistry</i> , 2009 , 284, 4936-43	5.4	82
190	Multidimensional approaches in biochemical speciation analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 373, 404-11	4.4	82
189	Ultratrace determination of uranium and plutonium by nano-volume flow injection double-focusing sector field inductively coupled plasma mass spectrometry (nFI-ICP-SFMS). <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 17-21	3.7	80
188	Element speciation analysis of petroleum and related materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2009 , 24, 263	3.7	79
187	Certification of a new selenized yeast reference material (SELM-1) for methionine, selenomethionine and total selenium content and its use in an intercomparison exercise for quantifying these analytes. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 168-80	4.4	79
186	Uptake and speciation of selenium in garlic cultivated in soil amended with symbiotic fungi (mycorrhiza) and selenate. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 1098-108	4.4	79
185	Multiplexed determination of protein biomarkers using metal-tagged antibodies and size exclusion chromatography-inductively coupled plasma mass spectrometry. <i>Analytical Chemistry</i> , 2009 , 81, 9440-8	7.8	78
184	Bioaccessibility of essential elements from white cheese, bread, fruit and vegetables. <i>Talanta</i> , 2011 , 86, 425-8	6.2	75
183	Speciation analysis of nickel in the latex of a hyperaccumulating tree <i>Sebertia acuminata</i> by HPLC and CZE with ICP MS and electrospray MS-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 120-127	3.7	75
182	Characterization of arsenic species in kidney of the clam <i>Tridacna derasa</i> by multidimensional liquid chromatography-ICPMS and electrospray time-of-flight tandem mass spectrometry. <i>Analytical Chemistry</i> , 2002 , 74, 2370-8	7.8	75
181	Analysis of metal-binding proteins separated by non-denaturing gel electrophoresis using matrix-assisted laser desorption/ionization mass spectrometry (MALDI-MS) and laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS). <i>Talanta</i> , 2008 , 76, 1183-8	6.2	74
180	Metallobiomolecules. The basis of life, the challenge of atomic spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 1	3.7	74

179	Speciation of seleno compounds in yeast aqueous extracts by three-dimensional liquid chromatography with inductively coupled plasma mass spectrometric and electrospray mass spectrometric detection. <i>Analyst, The</i> , 2002 , 127, 223-9	5	74
178	Determination of rare earth elements in wine by inductively coupled plasma mass spectrometry using a microconcentric nebulizer. <i>Journal of Analytical Atomic Spectrometry</i> , 1996 , 11, 713-721	3.7	74
177	Development of a nebulizer for a sheathless interfacing of NanoHPLC and ICPMS. <i>Analytical Chemistry</i> , 2006 , 78, 965-71	7.8	72
176	Metal imaging in non-denaturing 2D electrophoresis gels by laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) for the detection of metalloproteins. <i>Metallomics</i> , 2009 , 1, 312-64.5	4.5	71
175	Comprehensive speciation of selenium in selenium-rich yeast. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 41, 122-132	14.6	70
174	Metallomics: Guidelines for terminology and critical evaluation of analytical chemistry approaches (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2010 , 82, 493-504	2.1	70
173	Evaluation of the accuracy of the determination of lead isotope ratios in wine by ICP MS using quadrupole, multicollector magnetic sector and time-of-flight analyzers. <i>Talanta</i> , 2001 , 54, 307-17	6.2	67
172	Analysis for selenium speciation in selenized yeast extracts by two-dimensional liquid chromatography with ICP-MS and electrospray MS-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 68-73	3.7	66
171	Precolumn isotope dilution analysis in nanoHPLC-ICPMS for absolute quantification of sulfur-containing peptides. <i>Analytical Chemistry</i> , 2007 , 79, 2859-68	7.8	64
170	Biochemical speciation analysis by hyphenated techniques. <i>Analytica Chimica Acta</i> , 1999 , 400, 321-332	6.6	64
169	Speciation of non-covalent nickel species in plant tissue extracts by electrospray Q-TOFMS/MS after their isolation by 2D size exclusion-hydrophilic interaction LC (SEC-HILIC) monitored by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 676-683	3.7	63
168	Trapping of Metallic Porphyrins by Asphaltene Aggregates: A Size Exclusion Microchromatography With High-Resolution Inductively Coupled Plasma Mass Spectrometric Detection Study. <i>Energy & Fuels</i> , 2012 , 26, 4968-4977	4.1	60
167	Detection and identification of hydrophilic selenium compounds in selenium-rich yeast by size exclusion-microbore normal-phase HPLC with the on-line ICP-MS and electrospray Q-TOF-MS detection. <i>Analytica Chimica Acta</i> , 2010 , 657, 175-90	6.6	60
166	Speciation analysis of organolead compounds in Greenland snow at the femtogram-per-gram level by capillary gas chromatography/atomic emission spectrometry. <i>Analytical Chemistry</i> , 1993 , 65, 2510-2515	7.8	60
165	Flow-injection sample preparation for organotin speciation analysis of water by capillary gas chromatography-microwave-induced plasma atomic emission spectrometry. <i>Analytica Chimica Acta</i> , 1993 , 278, 99-113	6.6	60
164	<i>Pseudomonas aeruginosa</i> zinc uptake in chelating environment is primarily mediated by the metallophore pseudopaline. <i>Scientific Reports</i> , 2017 , 7, 17132	4.9	59
163	Speciation analysis of selenium metabolites in yeast-based food supplements by ICPMS-assisted hydrophilic interaction HPLC-hybrid linear ion trap/Orbitrap MS(n). <i>Analytical Chemistry</i> , 2008 , 80, 3975-84	7.8	59
162	Analysis for metal complexes with metallothionein in rat liver by capillary zone electrophoresis using ICP double-focussing sector-field isotope dilution MS and electrospray MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 908-912	3.7	59

161	Investigation of arsenic speciation in oyster test reference material by multidimensional HPLC-ICP-MS and electrospray tandem mass spectrometry (ES-MS-MS). <i>Analyst, The</i> , 2001 , 126, 1055-62 ⁵		59
160	Complementarity of MALDI and LA ICP mass spectrometry for platinum anticancer imaging in human tumor. <i>Metallomics</i> , 2014 , 6, 1382-6	4.5	57
159	Fractionation and speciation of nickel and vanadium in crude oils by size exclusion chromatography-ICP MS and normal phase HPLC-ICP MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 1123	3.7	57
158	Inventory of metal complexes circulating in plant fluids: a reliable method based on HPLC coupled with dual elemental and high-resolution molecular mass spectrometric detection. <i>New Phytologist</i> , 2016 , 211, 1129-41	9.8	56
157	Speciation analysis by gas chromatography with plasma source spectrometric detection. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1997 , 52, 1865-1903	3.1	56
156	Speciation analysis of organotin in water and sediments by gas chromatography with optical spectrometric detection after extraction separation. <i>Analytica Chimica Acta</i> , 1994 , 286, 309-318	6.6	56
155	Species-selective analysis by microcolumn multicapillary gas chromatography with inductively coupled plasma mass spectrometric detection. <i>Analytical Chemistry</i> , 1999 , 71, 4534-43	7.8	55
154	Sensitive speciation analysis of lead ion environmental waters by capillary gas chromatography microwave-induced plasma atomic emission spectrometry. <i>Analytica Chimica Acta</i> , 1992 , 262, 285-297	6.6	55
153	Sensitivity improvement in ICP MS analysis of fuels and light petroleum matrices using a microflow nebulizer and heated spray chamber sample introduction. <i>Talanta</i> , 2009 , 80, 1039-43	6.2	54
152	Detection of selenocompounds in a tryptic digest of yeast selenoprotein by MALDI time-of-flight MS prior to their structural analysis by electrospray ionization triple quadrupole MS. <i>Analyst, The</i> , 2003 , 128, 220-4	5	54
151	Speciation analysis for biomolecular complexes of lead in wine by size-exclusion high-performance liquid chromatography-inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998 , 13, 749-754	3.7	53
150	Investigation of metal complexes with metallothionein in rat tissues by hyphenated techniques. <i>Journal of Inorganic Biochemistry</i> , 2002 , 88, 197-206	4.2	53
149	Complementarity of multidimensional HPLC-ICP-MS and electrospray MSMS for speciation analysis of arsenic in algae. <i>Analytica Chimica Acta</i> , 2001 , 440, 3-16	6.6	52
148	Sensitive detection of selenoproteins in gel electrophoresis by high repetition rate femtosecond laser ablation-inductively coupled plasma mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 6874-80	7.8	51
147	Speciation analysis for organotin compounds in biomaterials after integrated dissolution, extraction, and derivatization in a focused microwave field. <i>Analytical Chemistry</i> , 1996 , 68, 4135-40	7.8	50
146	Characterization of metal complexes with metallothioneins by capillary zone electrophoresis (CZE) with ICP-MS and electrospray (ES)-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 635-642	3.7	49
145	Polymorphism and identification of metallothionein isoforms by reversed-phase HPLC with on-line ion-spray mass spectrometric detection. <i>Analytical Chemistry</i> , 1998 , 70, 2536-43	7.8	49
144	Identification of anionic selenium species in Se-rich yeast by electrospray QTOF MS/MS and hybrid linear ion trap/orbitrap MSn. <i>Metallomics</i> , 2009 , 1, 317-29	4.5	48

143	ICP-MS-assisted nanoHPLC-electrospray Q/time-of-flight MS/MS selenopeptide mapping in Brazil nuts. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 41-50	3.7	46
142	Selenopeptide mapping in a selenium yeast protein digest by parallel nanoHPLC-ICP-MS and nanoHPLC-electrospray-MS/MS after on-line preconcentration. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 26-32	3.7	46
141	Flow-injection ICP collision cell MS determination of molybdenum, nickel and vanadium in petroleum samples using a modified total consumption micronebulizer. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 88-92	3.7	45
140	Characterisation and determination of phytochelatin in plant extracts by electrospray tandem mass spectrometry. <i>Analyst</i> , 1999 , 124, 1425-1430	5	45
139	Elemental speciation analysis by multicapillary gas chromatography with microwave-induced plasma atomic spectrometric detection. <i>Analytical Chemistry</i> , 1997 , 69, 4799-807	7.8	44
138	Analysis of selenized yeast for selenium speciation by size-exclusion chromatography and capillary zone electrophoresis with inductively coupled plasma mass spectrometric detection (SEC-CZE-ICP-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 15-20	3.7	44
137	Trapping of Paraffin and Other Compounds by Asphaltenes Detected by Laser Desorption Ionization/Time of Flight Mass Spectrometry (LDI/TOF MS): Role of A1 and A2 Asphaltene Fractions in This Trapping. <i>Energy & Fuels</i> , 2009 , 23, 842-848	4.1	43
136	Determination of cobalamins and cobinamides by microbore reversed-phase HPLC with spectrophotometric, ion-spray ionization MS and inductively coupled plasma MS detection. <i>Analytica Chimica Acta</i> , 1998 , 359, 227-235	6.6	43
135	Determination of Tl(I) and Tl(III) by IC-ICP-MS and application to Tl speciation analysis in the Tl hyperaccumulator plant <i>Iberis intermedia</i> . <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 757-761	3.7	42
134	Monitoring of the metal displacement from the recombinant mouse liver metallothionein Zn7-complex by capillary zone electrophoresis with electrospray MS detection. <i>Talanta</i> , 2002 , 57, 1011-1017	6.2	41
133	Speciation analysis for mercury in gas condensates by capillary gas chromatography with inductively coupled plasma mass spectrometric detection. <i>Journal of Chromatography A</i> , 2002 , 976, 431-435	4.5	40
132	Investigation of metal binding by recombinant and native metallothioneins by capillary zone electrophoresis (CZE) coupled with inductively coupled plasma mass spectrometry (ICP-MS) via a self-aspirating total consumption micronebulizer. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 547-554	3.7	40
131	Recent Advances in Ultraviolet-Visible Spectrophotometry. <i>Critical Reviews in Analytical Chemistry</i> , 1992 , 23, 55-111	5.2	40
130	Characterization of multicapillary gas chromatography/microwave-induced plasma atomic emission spectrometry for the expeditious analysis for organometallic compounds. <i>Journal of Chromatography A</i> , 1998 , 795, 359-370	4.5	39
129	ICP-MS-assisted proteomics approach to the identification of selenium-containing proteins in selenium-rich yeast. <i>Journal of Analytical Atomic Spectrometry</i> , 2008 , 23, 309-317	3.7	39
128	Recent advances in speciation analysis by capillary gas chromatography/microwave induced plasma atomic emission spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 1993 , 12, 41-49	14.6	39
127	Large-scale identification of selenium metabolites by online size-exclusion-reversed phase liquid chromatography with combined inductively coupled plasma (ICP-MS) and electrospray ionization linear trap-Orbitrap mass spectrometry (ESI-MS(n)). <i>Metallomics</i> , 2012 , 4, 422-32	4.5	38
126	A comparative study of the Se/S substitution in methionine and cysteine in Se-enriched yeast using an inductively coupled plasma mass spectrometry (ICP MS)-assisted proteomics approach. <i>Journal of Proteomics</i> , 2013 , 87, 26-39	3.9	38

125	Separation techniques in speciation analysis for organometallic species. <i>Fresenius Journal of Analytical Chemistry</i> , 1995 , 351, 351-377		38
124	Fractionation of selenium-containing proteins in serum by multiaffinity liquid chromatography before size-exclusion chromatography-ICPMS. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 1276-83 ⁴⁴		37
123	Gas and liquid chromatography with inductively coupled plasma mass spectrometry detection for environmental speciation analysis: advances and limitations. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000 , 55, 779-793	3.1	37
122	Optimization of the coupling of multicapillary GC with ICP-MS for mercury speciation analysis in biological materials. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 851-857	3.7	37
121	Present century snow core record of organolead pollution in greenland. <i>Environmental Science & Technology</i> , 1994 , 28, 1467-71	10.3	37
120	Comparative cytotoxicity of cadmium forms (CdCl ₂ , CdO, CdS micro- and nanoparticles) in renal cells. <i>Toxicology Research</i> , 2014 , 3, 32-41	2.6	36
119	Elemental speciation and coupled techniques: towards faster and reliable analyses. <i>Journal of Analytical Atomic Spectrometry</i> , 1998 , 13, 859-867	3.7	36
118	Bioavailability of cadmium and lead in cocoa: comparison of extraction procedures prior to size-exclusion fast-flow liquid chromatography with inductively coupled plasma mass spectrometric detection (SEC-ICP-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 880-886	3.7	36
117	Speciation analysis of organolead compounds by gas chromatography with atomic spectrometric detection. <i>Analytica Chimica Acta</i> , 1994 , 286, 381-390	6.6	36
116	Determination of volatile sulfur compounds in water samples, beer and coffee with purge and trap gas chromatography-microwave-induced plasma atomic emission spectrometry. <i>Analytica Chimica Acta</i> , 1995 , 316, 93-104	6.6	36
115	Signal identification in size-exclusion HPLC-ICP-MS chromatograms of plant extracts by electrospray tandem mass spectrometry (ES MS/MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 529-534	3.7	35
114	Speciation of metal-carbohydrate complexes in fruit and vegetable samples by size-exclusion HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 639-644	3.7	35
113	Hemoglobin as a major binding protein for methylmercury in white-sided dolphin liver. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 1121-9	4.4	34
112	Detection and characterization of biogenic selenium nanoparticles in selenium-rich yeast by single particle ICPMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2018 , 33, 452-460	3.7	33
111	Characterization of metallothionein isoforms by reversed-phase high-performance liquid chromatography with on-line post-column acidification and electrospray mass spectrometric detection. <i>Journal of Chromatography A</i> , 1998 , 829, 127-36	4.5	33
110	Identification of selenium-containing proteins in selenium-rich yeast aqueous extract by 2D gel electrophoresis, nanoHPLC-ICP MS and nanoHPLC-ESI MS/MS. <i>Talanta</i> , 2008 , 75, 1140-5	6.2	33
109	Characterization of the selenocysteine-containing metabolome in selenium-rich yeast. <i>Journal of Analytical Atomic Spectrometry</i> , 2008 , 23, 72-83	3.7	33
108	Is Ag(I) an adequate probe for Cu(I) in structural copper-metallothionein studies? The binding features of Ag(I) to mammalian metallothionein 1. <i>Journal of Biological Inorganic Chemistry</i> , 2003 , 8, 831-42 ³⁴²	3.7	33

107	Sensitive species-specific monitoring of a new triplatinum anti-cancer drug and its potential related compounds in spiked human plasma by cation-exchange HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 884	3.7	33
106	Characterization of the selenocysteine-containing metabolome in selenium-rich yeast. <i>Journal of Analytical Atomic Spectrometry</i> , 2008 , 23, 744	3.7	32
105	Multimode detection (LA-ICP-MS, MALDI-MS and nanoHPLC-ESI-MS2) in 1D and 2D gel electrophoresis for selenium-containing proteins. <i>TrAC - Trends in Analytical Chemistry</i> , 2007 , 26, 183-190	14.6	32
104	Analysis of the selenium species distribution in cow blood by size exclusion liquid chromatography-inductively coupled plasma collision cell mass spectrometry (SEC-ICPccMS). <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 383, 516-22	4.4	32
103	Direct multi-element analysis of crude oils and gas condensates by double-focusing sector field inductively coupled plasma mass spectrometry (ICP MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 704	3.7	31
102	Specific determination of selenoaminoacids in whole milk by 2D size-exclusion-ion-pairing reversed phase high-performance liquid chromatography-inductively coupled plasma mass spectrometry (HPLC-ICP MS). <i>Analytica Chimica Acta</i> , 2008 , 624, 195-202	6.6	31
101	Investigation of the stability of selenoproteins during storage of human serum by size-exclusion LC-ICP-MS. <i>Talanta</i> , 2007 , 71, 1813-6	6.2	31
100	Biosynthesis, purification and analysis of selenomethionyl calmodulin by gel electrophoresis-laser ablation-ICP-MS and capillary HPLC-ICP-MS peptide mapping following in-gel tryptic digestion. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 493	3.7	31
99	Probing of bismuth antiulcer drug targets in <i>H. pylori</i> by laser ablation-inductively coupled plasma mass spectrometry. <i>Metallomics</i> , 2012 , 4, 277-83	4.5	30
98	Molecular Fingerprints and Speciation of Crude Oils and Heavy Fractions Revealed by Molecular and Elemental Mass Spectrometry: Keystone between Petroleomics, Metallopetroleomics, and Petrointeractomics. <i>Energy & Fuels</i> , 2018 , 32, 4593-4605	4.1	29
97	Monitoring the behaviour and fate of nickel and vanadium complexes during vacuum residue hydrotreatment and fraction separation. <i>Fuel Processing Technology</i> , 2014 , 119, 185-189	7.2	29
96	Application of TLC and LA ICP SF MS for speciation of S, Ni and V in petroleum samples. <i>Talanta</i> , 2012 , 97, 574-8	6.2	29
95	Simultaneous derivatization of selenocysteine and selenomethionine in animal blood prior to their specific determination by 2D size-exclusion ion-pairing reversed-phase HPLC-ICP MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2008 , 23, 508	3.7	29
94	Investigation of speciation of arsenic in gas condensates by capillary gas chromatography with ICP-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 1329-1332	3.7	29
93	Ultratrace speciation analysis of organolead in water by gas chromatography-atomic emission spectrometry after in-liner preconcentration. <i>Journal of Analytical Atomic Spectrometry</i> , 1992 , 7, 987-992	2.7	29
92	Privileged incorporation of selenium as selenocysteine in <i>Lactobacillus reuteri</i> proteins demonstrated by selenium-specific imaging and proteomics. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 2196-204	7.6	28
91	Advances in electrospray mass spectrometry for the selenium speciation: Focus on Se-rich yeast. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 104, 87-94	14.6	27
90	Standardless identification of selenocystathionine and its gamma-glutamyl derivatives in monkeypot nuts by 3D liquid chromatography with ICP-MS detection followed by nanoHPLC-Q-TOF-MS/MS. <i>Analyst, The</i> , 2007 , 132, 439-49	5	27

89	Determination of iodine in human milk and infant formulas. <i>Journal of Trace Elements in Medicine and Biology</i> , 2007 , 21 Suppl 1, 10-3	4.1	27
88	Determination of mercury in organic solvents and gas condensates by flow-injection inductively coupled plasma mass spectrometry using a modified total consumption micronebulizer fitted with single pass spray chamber. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006 , 61, 1063-1068	3.1	27
87	Identification of cadmium-bioinduced ligands in rat liver using parallel HPLC-ICP-MS and HPLC-electrospray MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 1363-1368	3.7	26
86	Speciation in the environmental field Trends in Analytical Chemistry. <i>Fresenius Journal of Analytical Chemistry</i> , 1999 , 363, 550-557		26
85	Interferences in ultratrace speciation of organolead and organotin by gas chromatography with atomic spectrometric detection. <i>Mikrochimica Acta</i> , 1994 , 113, 287-298	5.8	26
84	Identification and determination of selenohomolanthionine - The major selenium compound in Torula yeast. <i>Food Chemistry</i> , 2017 , 237, 1196-1201	8.5	25
83	Speciation targets, analytical solutions and markets. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1998 , 53, 177-185	3.1	25
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