

Zoltan Mester

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227
papers

6,568
citations

43
h-index

65
g-index

235
ext. papers

7,137
ext. citations

4.9
avg, IF

5.99
L-index

#	Paper	IF	Citations
227	Cellular consequences of copper complexes used to catalyze bioorthogonal click reactions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17993-8001	16.4	280
226	Review of applications of high-field asymmetric waveform ion mobility spectrometry (FAIMS) and differential mobility spectrometry (DMS). <i>Analyt, The</i> , 2007 , 132, 842-64	5	255
225	UV vapor generation for determination of selenium by heated quartz tube atomic absorption spectrometry. <i>Analytical Chemistry</i> , 2003 , 75, 2092-9	7.8	156
224	Solid phase microextraction as a tool for trace element speciation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001 , 56, 233-260	3.1	147
223	Vapor generation by UV irradiation for sample introduction with atomic spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 2401-5	7.8	146
222	Comparison of two sequential extraction procedures for metal fractionation in sediment samples. <i>Analytica Chimica Acta</i> , 1998 , 359, 133-142	6.6	130
221	Headspace single-drop microextraction for the detection of organotin compounds. <i>Talanta</i> , 2004 , 63, 555-60	6.2	93
220	Speciation of organoarsenic compounds by polypyrrole-coated capillary in-tube solid phase microextraction coupled with liquid chromatography/electrospray ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2000 , 424, 211-222	6.6	89
219	Metal ion-assisted photochemical vapor generation for the determination of lead in environmental samples by multicollector-ICPMS. <i>Analytical Chemistry</i> , 2015 , 87, 4495-502	7.8	81
218	Quantitation of amphetamine, methamphetamine, and their methylenedioxy derivatives in urine by solid-phase microextraction coupled with electrospray ionization-high-field asymmetric waveform ion mobility spectrometry-mass spectrometry. <i>Analytical Chemistry</i> , 2002 , 74, 3071-5	7.8	81
217	Mechanisms of chemical generation of volatile hydrides for trace element determination (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2011 , 83, 1283-1340	2.1	80
216	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
215	Paradigms in isotope dilution mass spectrometry for elemental speciation analysis. <i>Analytica Chimica Acta</i> , 2008 , 607, 115-25	6.6	71
214	Photochemical alkylation of inorganic selenium in the presence of low molecular weight organic acids. <i>Environmental Science & Technology</i> , 2003 , 37, 5645-50	10.3	69
213	Automated in-tube solid-phase microextraction coupled with liquid chromatography-electrospray ionization mass spectrometry for the determination of selected benzodiazepines. <i>Journal of Analytical Toxicology</i> , 2000 , 24, 718-25	2.9	69
212	Transmission X-ray microscopy for full-field nano imaging of biomaterials. <i>Microscopy Research and Technique</i> , 2011 , 74, 671-81	2.8	68
211	Separation and quantitation of the stereoisomers of ephedra alkaloids in natural health products using flow injection-electrospray ionization-high field asymmetric waveform ion mobility spectrometry-mass spectrometry. <i>Analytical Chemistry</i> , 2003 , 75, 2538-42	7.8	68

210	Cryo-EM reveals the structural basis of long-range electron transport in a cytochrome-based bacterial nanowire. <i>Communications Biology</i> , 2019 , 2, 219	6.7	66
209	Determination of methylmercury in fish tissues by isotope dilution SPME-GC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 431-436	3.7	66
208	Chemical vapor generation: are further advances yet possible?. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 382, 881-3	4.4	66
207	Trace element speciation using solid phase microextraction. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005 , 60, 1243-1269	3.1	62
206	Determination of methylmercury by solid-phase microextraction inductively coupled plasma mass spectrometry: a new sample introduction method for volatile metal species. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 837-842	3.7	62
205	Comparison of extraction methods for quantitation of methionine and selenomethionine in yeast by species specific isotope dilution gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2004 , 1055, 177-84	4.5	61
204	Determination of methionine and selenomethionine in selenium-enriched yeast by species-specific isotope dilution with liquid chromatography-mass spectrometry and inductively coupled plasma mass spectrometry detection. <i>Analytical Chemistry</i> , 2005 , 77, 344-9	7.8	59
203	UV/spray chamber for generation of volatile photo-induced products having enhanced sample introduction efficiency. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 263	3.7	58
202	Determination of methionine and selenomethionine in yeast by species-specific isotope dilution GC/MS. <i>Analytical Chemistry</i> , 2004 , 76, 5149-56	7.8	57
201	Arsenic speciation in marine certified reference materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 876	3.7	56
200	Determination of bismuth by dielectric barrier discharge atomic absorption spectrometry coupled with hydride generation: method optimization and evaluation of analytical performance. <i>Analytical Chemistry</i> , 2014 , 86, 9620-5	7.8	55
199	Application of isotope dilution to the determination of methylmercury in fish tissue by solid-phase microextraction gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2003 , 1011, 1354-52	4.5	52
198	A critical review on isotopic fractionation correction methods for accurate isotope amount ratio measurements by MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2018 , 33, 1849-1861	3.7	52
197	Digestion methods for analysis of fly ash samples by atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1999 , 395, 157-163	6.6	51
196	Separation of cisplatin and its hydrolysis products using electrospray ionization high-field asymmetric waveform ion mobility spectrometry coupled with ion trap mass spectrometry. <i>Analytical Chemistry</i> , 2003 , 75, 5847-53	7.8	50
195	Reduction of measurement uncertainty by experimental design in high-order (double, triple, and quadruple) isotope dilution mass spectrometry: application to GC-MS measurement of bromide. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 2879-87	4.4	49
194	UV photosynthesis of nickel carbonyl. <i>Applied Organometallic Chemistry</i> , 2004 , 18, 205-211	3.1	48
193	UV light-mediated alkylation of inorganic selenium. <i>Applied Organometallic Chemistry</i> , 2003 , 17, 575-579	3.1	47

192	Mechanism of generation of volatile hydrides of trace elements by aqueous tetrahydroborate(III). Mass spectrometric studies on reaction products and intermediates. <i>Analytical Chemistry</i> , 2007 , 79, 3008-15	7.8	46
191	Speciation of dimethylarsinic acid and monomethylarsonic acid by solid-phase microextraction-gas chromatography-ion trap mass spectrometry. <i>Journal of Chromatography A</i> , 2000 , 873, 129-35	4.5	45
190	Reconciling Planck constant determinations via watt balance and enriched-silicon measurements at NRC Canada. <i>Metrologia</i> , 2012 , 49, L8-L10	2.1	44
189	Calculations of double spike isotope dilution results revisited. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 1294	3.7	44
188	Electrospray mass spectrometry of trimethyllead and triethyllead with in-tube solid phase microextraction sample introduction. <i>Rapid Communications in Mass Spectrometry</i> , 1999 , 13, 1999-2003	2.2	44
187	Mapping of selenium metabolic pathway in yeast by liquid chromatography-Orbitrap mass spectrometry. <i>Analytical Chemistry</i> , 2010 , 82, 8121-30	7.8	43
186	Generation of volatile cobalt species by UV photoreduction and their tentative identification. <i>Journal of Analytical Atomic Spectrometry</i> , 2008 , 23, 583	3.7	43
185	Determination of total chromium in seawater by isotope dilution sector field ICPMS using GC sample introduction. <i>Analytical Chemistry</i> , 2004 , 76, 3510-6	7.8	42
184	A comparison of alkyl derivatization methods for speciation of mercury based on solid phase microextraction gas chromatography with furnace atomization plasma emission spectrometry detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 902	3.7	42
183	Direct Determination of Trace Antimony in Natural Waters by Photochemical Vapor Generation ICPMS: Method Optimization and Comparison of Quantitation Strategies. <i>Analytical Chemistry</i> , 2015 , 87, 7996-8004	7.8	41
182	Selective hydride generation- cryotrapping- ICP-MS for arsenic speciation analysis at picogram levels: analysis of river and sea water reference materials and human bladder epithelial cells. <i>Journal of Analytical Atomic Spectrometry</i> , 2013 , 28, 1456-1465	3.7	41
181	Ambient mass spectrometric detection of organometallic compounds using direct analysis in real time. <i>Analytical Chemistry</i> , 2009 , 81, 9834-9	7.8	41
180	Analysis of chemical warfare agents in food products by atmospheric pressure ionization-high field asymmetric waveform ion mobility spectrometry-mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 8257-65	7.8	41
179	Photochemical alkylation of inorganic arsenic. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 702	3.7	41
178	Improvement of measurement precision of SPME-GC/MS determination of tributyltin using isotope dilution calibration. <i>Analytical Chemistry</i> , 2002 , 74, 5606-13	7.8	41
177	Identification of selenomethionine in selenized yeast using two-dimensional liquid chromatography-mass spectrometry based proteomic analysis. <i>Analyst, The</i> , 2005 , 130, 35-7	5	39
176	Solid phase microextraction capillary gas chromatography combined with furnace atomization plasma emission spectrometry for speciation of mercury in fish tissues. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003 , 58, 427-441	3.1	39
175	Determination of strontium isotope amount ratios in biological tissues using MC-ICPMS. <i>Analytical Methods</i> , 2013 , 5, 1687	3.2	38

174	High-yield synthesis of milligram amounts of isotopically enriched methylmercury (CH ₃ ¹⁹⁸ HgCl). <i>Applied Organometallic Chemistry</i> , 2004 , 18, 57-64	3.1	38
173	Mass bias fractionation laws for multi-collector ICPMS: assumptions and their experimental verification. <i>Analytical Chemistry</i> , 2009 , 81, 6774-8	7.8	37
172	The mechanism of formation of volatile hydrides by tetrahydroborate(III) derivatization: A mass spectrometric study performed with deuterium labeled reagents. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005 , 60, 423-438	3.1	37
171	Determination of the atomic weight of ²⁸ Si-enriched silicon for a revised estimate of the Avogadro constant. <i>Analytical Chemistry</i> , 2012 , 84, 2321-7	7.8	36
170	Sampling and determination of metal hydrides by solid phase microextraction thermal desorption inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 1461-7	3.7	36
169	High-precision quadruple isotope dilution method for simultaneous determination of nitrite and nitrate in seawater by GCMS after derivatization with triethyloxonium tetrafluoroborate. <i>Analytica Chimica Acta</i> , 2014 , 824, 36-41	6.6	34
168	Quantitation of trace metals in liquid samples by dried-droplet laser ablation inductively coupled plasma mass spectrometry. <i>Analytical Chemistry</i> , 2005 , 77, 2971-7	7.8	34
167	Stability and transient dynamics of thin liquid films flowing over locally heated surfaces. <i>Physical Review E</i> , 2007 , 76, 056306	2.4	33
166	Determination of arsenic species by high-performance liquid chromatography-ultrasonic nebulization-atomic fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1995 , 10, 609-613	3.7	33
165	Comparison of dielectric barrier discharge, atmospheric pressure radiofrequency-driven glow discharge and direct analysis in real time sources for ambient mass spectrometry of acetaminophen. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011 , 66, 594-603	3.1	32
164	Certification of natural isotopic abundance inorganic mercury reference material NIMS-1 for absolute isotopic composition and atomic weight. <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 384	3.7	32
163	Improvement in measurement precision with SPME by use of isotope dilution mass spectrometry and its application to the determination of tributyltin in sediment using SPME GC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 944-949	3.7	32
162	Determination of tributyltin by automated in-tube solid-phase microextraction coupled with HPLC-ES-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 159-165	3.7	32
161	Protein quantitation using Ru-NHS ester tagging and isotope dilution high-pressure liquid chromatography-inductively coupled plasma mass spectrometry determination. <i>Analytical Chemistry</i> , 2012 , 84, 2769-75	7.8	31
160	Absolute quantification of peptides by isotope dilution liquid chromatography-inductively coupled plasma mass spectrometry and gas chromatography/mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 4087-93	7.8	31
159	Photochemical alkylation of inorganic arsenic. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 709	3.7	31
158	Arsenic speciation in marine certified reference materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 373	3.7	31
157	Solid phase microextraction for the determination of chromium in sea-water. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 1098-1103	3.7	31

156	Detection of volatile organometal chloride species in model atmosphere above seawater and sediment. <i>Environmental Science & Technology</i> , 2002 , 36, 1198-201	10.3	31
155	Derivatization chemistries for the determination of inorganic anions and structurally related compounds by gas chromatography - A review. <i>Analytica Chimica Acta</i> , 2018 , 1025, 12-40	6.6	30
154	Novel ethyl-derivatization approach for the determination of fluoride by headspace gas chromatography/mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 877-81	7.8	30
153	Species-specific isotope dilution-based calibration for trace element speciation and its combined uncertainty evaluation: determination of tributyltin in sediment by HPLC-ICPMS. <i>Analytical Chemistry</i> , 2002 , 74, 2968-76	7.8	30
152	Multivariate optimization of photochemical vapor generation for direct determination of arsenic in seawater by inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2015 , 901, 34-40	6.6	29
151	Extraction for analytical scale sample preparation (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2016 , 88, 649-687	2.1	29
150	Negative chemical ionization GC/MS determination of nitrite and nitrate in seawater using exact matching double spike isotope dilution and derivatization with triethyloxonium tetrafluoroborate. <i>Analytical Chemistry</i> , 2012 , 84, 2592-6	7.8	29
149	Determination of thiols in yeast by HPLC coupled with LTQ-orbitrap mass spectrometry after derivatization with p-(Hydroxymercuri)benzoate. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 1462-8	5.7	29
148	Production and characterization of fully selenomethionine-labeled <i>Saccharomyces cerevisiae</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 11792-9	5.7	29
147	Speciation of trimethyllead and triethyllead by in-tube solid phase microextraction high-performance liquid chromatography electrospray ionization mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 595-600	3.7	29
146	Selenium analysis in waters. Part 2: Speciation methods. <i>Science of the Total Environment</i> , 2018 , 640-641, 1635-1651	10.2	28
145	The speciation of natural tissues by electrospray-mass spectrometry. I: Biosynthesized species, As and Se. <i>TrAC - Trends in Analytical Chemistry</i> , 2003 , 22, 210-224	14.6	28
144	Observations of large mass-independent fractionation occurring in MC-ICPMS: implications for determination of accurate isotope amount ratios. <i>Analytical Chemistry</i> , 2011 , 83, 8999-9004	7.8	27
143	Determination of selenomethionine in yeast using CNBr derivatization and species specific isotope dilution GC ICP-MS and GC-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 1448	3.7	27
142	Electrospray ionization mass spectrometry coupled to liquid chromatography for detection of cisplatin and its hydrated complexes. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 1517-27	2.2	27
141	Determination of thiocyanate in saliva by headspace gas chromatography-mass spectrometry, following a single-step aqueous derivatization with triethyloxonium tetrafluoroborate. <i>Journal of Chromatography A</i> , 2015 , 1400, 124-30	4.5	26
140	Atomization of Bismuthane in a Dielectric Barrier Discharge: A Mechanistic Study. <i>Analytical Chemistry</i> , 2016 , 88, 1804-11	7.8	26
139	Speciation and determination of thiols in biological samples using high performance liquid chromatography-inductively coupled plasma-mass spectrometry and high performance liquid chromatography-Orbitrap MS. <i>Analytica Chimica Acta</i> , 2010 , 680, 41-7	6.6	26

138	Detection of volatile arsenic chloride species during hydride generation: a new prospectus. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 470-474	3.7	26
137	Applications of Hard X-ray Full-Field Transmission X-ray Microscopy at SSRL 2011 ,		25
136	Application of double-spike isotope dilution for the accurate determination of Cr(III), Cr(VI) and total Cr in yeast. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 386, 1673-80	4.4	25
135	Selenium analysis in waters. Part 1: Regulations and standard methods. <i>Science of the Total Environment</i> , 2018 , 640-641, 1611-1634	10.2	24
134	Metrological triangle for measurements of isotope amount ratios of silver, indium, and antimony using multicollector-inductively coupled plasma mass spectrometry: the 21st century Harvard method. <i>Analytical Chemistry</i> , 2010 , 82, 8978-82	7.8	24
133	Isotope ratio precision with transient sample introduction using ICP orthogonal acceleration time-of-flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 1358	3.7	24
132	Comparison of flow injection analysis electrospray mass spectrometry and tandem mass spectrometry and electrospray high-field asymmetric waveform ion mobility mass spectrometry and tandem mass spectrometry for the determination of underivatized amino acids. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 1801-8	2.2	24
131	The speciation of natural tissues by electrospray-mass spectrometry. II: Bioinduced ligands and environmental contaminants. <i>TrAC - Trends in Analytical Chemistry</i> , 2003 , 22, 311-326	14.6	24
130	Glossary of terms used in extraction (IUPAC Recommendations 2016). <i>Pure and Applied Chemistry</i> , 2016 , 88, 517-558	2.1	23
129	High-performance liquid chromatography-hydride generation-atomic fluorescence spectroscopic determination of arsenic species in water. <i>Journal of Chromatography A</i> , 1996 , 756, 292-299	4.5	23
128	On-line UV photochemical generation of volatile copper species and its analytical application. <i>Microchemical Journal</i> , 2016 , 124, 344-349	4.8	23
127	Recent trends in analysis of nanoparticles in biological matrices. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 4277-4292	4.4	23
126	Definition of the mole (IUPAC Recommendation 2017). <i>Pure and Applied Chemistry</i> , 2018 , 90, 175-180	2.1	22
125	Diethyldithiocarbamate enhanced chemical generation of volatile palladium species, their characterization by AAS, ICP-MS, TEM and DART-MS and proposed mechanism of action. <i>Analytica Chimica Acta</i> , 2018 , 1005, 16-26	6.6	22
124	Small unilamellar vesicles: a platform technology for molecular imaging of brain tumors. <i>Nanotechnology</i> , 2011 , 22, 195102	3.4	22
123	Mass spectrometric separation and quantitation of overlapping isotopologues. H ₂ O/HOD/D ₂ O and H ₂ Se/H ₂ Se/D ₂ Se mixtures. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 1028-36	3.5	22
122	Determination of amino acids in selenium-enriched yeast by gas chromatography-mass spectrometry after microwave assisted hydrolysis. <i>Analytica Chimica Acta</i> , 2012 , 744, 54-9	6.6	21
121	Quantitation of lysergic acid diethylamide in urine using atmospheric pressure matrix-assisted laser desorption/ionization ion trap mass spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 7143-8	7.8	21

120	Speciation without chromatography. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 1313	3.7	21
119	Addressing the presence of biogenic selenium nanoparticles in yeast cells: analytical strategies based on ICP-TQ-MS. <i>Analyst, The</i> , 2020 , 145, 1457-1465	5	21
118	Calibration graphs in isotope dilution mass spectrometry. <i>Analytica Chimica Acta</i> , 2015 , 896, 63-7	6.6	20
117	Copper Isotopic Analysis in Geological and Biological Reference Materials by MC-ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2020 , 44, 349-362	3.6	20
116	Chemical generation of arsane and methylarsanes with amine boranes. Potentialities for nonchromatographic speciation of arsenic. <i>Analytical Chemistry</i> , 2014 , 86, 1599-607	7.8	20
115	Coordinate swapping in standard addition graphs for analytical chemistry: a simplified path for uncertainty calculation in linear and nonlinear plots. <i>Analytical Chemistry</i> , 2014 , 86, 8563-7	7.8	20
114	A critical review of the proposed definitions of fundamental chemical quantities and their impact on chemical communities (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2017 , 89, 951-981	2.1	20
113	Determination of S-nitrosoglutathione and other nitrosothiols by p-hydroxymercurybenzoate derivatization and reverse phase chromatography coupled with chemical vapor generation atomic fluorescence detection. <i>Talanta</i> , 2008 , 77, 684-694	6.2	20
112	Compensation voltage shifting in high-field asymmetric waveform ion mobility spectrometry-mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 3319-29	2.2	20
111	Comparison of chloride- and hydride-generation for quantitation of germanium by headspace solid-phase microextraction-inductively coupled plasma-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 373, 849-55	4.4	20
110	Determination of the Isotopic Composition of Iridium Using Multicollector-ICPMS. <i>Analytical Chemistry</i> , 2017 , 89, 9375-9382	7.8	19
109	Quantification of nitrite and nitrate in seawater by triethyloxonium tetrafluoroborate derivatization-headspace SPME GC-MS. <i>Talanta</i> , 2011 , 85, 2511-6	6.2	19
108	Determination of S-nitrosoglutathione in plasma: comparison of two methods. <i>Talanta</i> , 2010 , 81, 1295-96.2		19
107	Selenium speciation with on-column preconcentration high-performance liquid chromatography \square atomic fluorescence spectrometry using ultrasonic nebulization technique. <i>Analytica Chimica Acta</i> , 1999 , 386, 89-97	6.6	19
106	Speciation of dimethylarsinic acid and monomethylarsonic acid by gas chromatography \square mass spectrometry. <i>Journal of Chromatography A</i> , 1999 , 832, 183-190	4.5	19
105	Determination of sulfur and sulfate half-ester content in cellulose nanocrystals: an interlaboratory comparison. <i>Metrologia</i> , 2018 , 55, 872-882	2.1	19
104	Gas chromatography \square mass spectrometric identification of iodine species arising from photo-chemical vapor generation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009 , 64, 714-716	3.1	18
103	General equation for multiple spiking isotope dilution mass spectrometry. <i>Analytical Chemistry</i> , 2009 , 81, 5075-9	7.8	18

102	Effect of additives on the chemical vapour generation of bismuthane by tetrahydroborate(III) derivatization. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 388, 783-91	4.4	18
101	Mapping of sulfur metabolic pathway by LC Orbitrap mass spectrometry. <i>Analytica Chimica Acta</i> , 2012 , 721, 129-36	6.6	17
100	Determination of arsenobetaine in fish tissue by species specific isotope dilution LC-LTQ-Orbitrap-MS and standard addition LC-ICPMS. <i>Analytical Chemistry</i> , 2011 , 83, 3371-8	7.8	17
99	Uncertainty propagation of atomic weight measurement results. <i>Metrologia</i> , 2008 , 45, 53-62	2.1	17
98	Evaluation of high-field asymmetric waveform ion mobility spectrometry mass spectrometry for the analysis of the mycotoxin zearalenone. <i>Analytica Chimica Acta</i> , 2008 , 627, 112-6	6.6	17
97	Direct determination of dissolved phosphate and silicate in seawater by ion exclusion chromatography sector field inductively coupled plasma mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 3222-6	7.8	16
96	Nonlinear signal response in electrospray mass spectrometry: implications for quantitation of arsenobetaine using stable isotope labeling by liquid chromatography and electrospray Orbitrap mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 3958-64	7.8	16
95	Gas chromatography-mass spectrometry study of hydrogen-deuterium exchange reactions of volatile hydrides of As, Sb, Bi, Ge and Sn in aqueous media. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006 , 61, 778-787	3.1	16
94	Dried-droplet laser ablation ICP-MS of HPLC fractions for the determination of selenomethionine in yeast. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 431	3.7	16
93	Comparison of sector field- and quadrupole-ICP-MS for the determination of DBT and TBT in sediment following GC separation. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 1365	3.7	16
92	High-Precision Measurements of the Isotopic Composition of Common Lead Using MC-ICPMS: Comparison of Calibration Strategies Based on Full Gravimetric Isotope Mixture and Regression Models. <i>Analytical Chemistry</i> , 2019 , 91, 4164-4171	7.8	15
91	Sub-ppt determination of butyltins, methylmercury and inorganic mercury in natural waters by dynamic headspace in-tube extraction and GC-ICPMS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2017 , 32, 2447-2454	3.7	15
90	Full-field transmission x-ray microscopy for bio-imaging. <i>Journal of Physics: Conference Series</i> , 2009 , 186, 12081	0.3	15
89	Comparison of laser ablation, electrothermal vaporization and solution nebulization for the determination of radionuclides in liquid samples by inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 1202	3.7	15
88	Validation and inter-laboratory study of selective hydride generation for fast screening of inorganic arsenic in seafood. <i>Analytica Chimica Acta</i> , 2019 , 1049, 20-28	6.6	15
87	Behavior of selenium hydride in heated quartz tube and dielectric barrier discharge atomizers. <i>Analytica Chimica Acta</i> , 2018 , 1028, 11-21	6.6	15
86	Microwave-assisted acid digestion protocol for the determination of methionine and selenomethionine in selenium-enriched yeast by species specific isotope dilution GC-MS. <i>Analytical Methods</i> , 2013 , 5, 525-529	3.2	14
85	Analytical System for Arsenobetaine and Arsenocholine Speciation. <i>Journal of Analytical Atomic Spectrometry</i> , 1997 , 12, 363-367	3.7	14

84	Signal correlation in isotope ratio measurements with mass spectrometry: Effects on uncertainty propagation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007 , 62, 1278-1284	3.1	14
83	Determination of Arsenic Species by High-Performance Liquid Chromatography-Hydride Generation (Ultrasonic Nebulizer)-Atomic Fluorescence Spectrometry. <i>Microchemical Journal</i> , 1996 , 54, 184-194	4.8	14
82	The role of selenium in mercury toxicity [Current analytical techniques and future trends in analysis of selenium and mercury interactions in biological matrices. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 104, 95-109	14.6	14
81	Derivatization of GSSG by pHMB in alkaline media. Determination of oxidized glutathione in blood. <i>Talanta</i> , 2010 , 82, 815-20	6.2	13
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