Juris Meija

List of Publications by Year in descending order

189 papers	4,648 citations	136950 32 h-index	114465 63 g-index
197 all docs	197 docs citations	197 times ranked	4537 citing authors

#	Article	IF	Citations
1	Isotopic compositions of the elements 2013 (IUPAC Technical Report). Pure and Applied Chemistry, 2016, 88, 293-306.	1.9	534
2	Atomic weights of the elements 2013 (IUPAC Technical Report). Pure and Applied Chemistry, 2016, 88, 265-291.	1.9	518
3	Atomic weights of the elements 2011 (IUPAC Technical Report). Pure and Applied Chemistry, 2013, 85, 1047-1078.	1.9	348
4	Overexpression of Selenocysteine Methyltransferase in Arabidopsis and Indian Mustard Increases Selenium Tolerance and Accumulation. Plant Physiology, 2004, 135, 377-383.	4.8	269
5	Polybrominated diphenyl ethers: Causes for concern and knowledge gaps regarding environmental distribution, fate and toxicity. Science of the Total Environment, 2008, 400, 425-436.	8.0	191
6	Simultaneous Monitoring of Volatile Selenium and Sulfur Species from Se Accumulating Plants (Wild) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Introduction. Analytical Chemistry, 2002, 74, 5837-5844.	6.5	127
7	Strategies To Study Human Serum Transferrin Isoforms Using Integrated Liquid Chromatography ICPMS, MALDI-TOF, and ESI-Q-TOF Detection:Â Application to Chronic Alcohol Abuse. Analytical Chemistry, 2005, 77, 5615-5621.	6.5	95
8	Paradigms in isotope dilution mass spectrometry for elemental speciation analysis. Analytica Chimica Acta, 2008, 607, 115-125.	5.4	85
9	Deconvolution of isobaric interferences in mass spectra. Journal of the American Society for Mass Spectrometry, 2004, 15, 654-658.	2.8	79
10	A critical review on isotopic fractionation correction methods for accurate isotope amount ratio measurements by MC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2018, 33, 1849-1861.	3.0	74
11	Localization and speciation of selenium and mercury in Brassica junceaâ€"implications for Seâ€“Hg antagonism. Journal of Analytical Atomic Spectrometry, 2006, 21, 404.	3.0	72
12	Mathematical tools in analytical mass spectrometry. Analytical and Bioanalytical Chemistry, 2006, 385, 486-499.	3.7	63
13	Reduction of measurement uncertainty by experimental design in high-order (double, triple, and) Tj ETQq1 1 0.784314 rgBT /Overlock Analytical and Bioanalytical Chemistry, 2013, 405, 2879-2887.	3.7	62
14	Standard atomic weights of the elements 2021 (IUPAC Technical Report). Pure and Applied Chemistry, 2022, 94, 573-600.	1.9	57
15	Reconciling Planck constant determinations via watt balance and enriched-silicon measurements at NRC Canada. Metrologia, 2012, 49, L8-L10.	1.2	55
16	Determination of phosphoric acid triesters in human plasma using solid-phase microextraction and gas chromatography coupled to inductively coupled plasma mass spectrometry. Journal of Chromatography A, 2006, 1103, 329-336.	3.7	54
17	Selenium in plants by mass spectrometric techniques: developments in bio-analytical methods : Plenary Lecture. Journal of Analytical Atomic Spectrometry, 2002, 17, 1015-1023.	3.0	53
18	Mechanism of Generation of Volatile Hydrides of Trace Elements by Aqueous Tetrahydroborate(III). Mass Spectrometric Studies on Reaction Products and Intermediates. Analytical Chemistry, 2007, 79, 3008-3015.	6.5	50

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19	Calculations of double spike isotope dilution results revisited. Journal of Analytical Atomic Spectrometry, 2006, 21, 1294.	3.0	46
20	Use of optional gas and collision cell for enhanced sensitivity of the organophosphorus pesticides by GC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2003, 18, 1097-1102.	3.0	45
21	Selenium Volatiles as Proxy to the Metabolic Pathways of Selenium in Genetically ModifiedBrassica juncea. Environmental Science & Technology, 2007, 41, 1863-1869.	10.0	44
22	Determination of the Atomic Weight of ²⁸Si-Enriched Silicon for a Revised Estimate of the Avogadro Constant. Analytical Chemistry, 2012, 84, 2321-2327.	6.5	42
23	Studies of Selenium-Containing Volatiles in Roasted Coffee. Journal of Agricultural and Food Chemistry, 2003, 51, 5116-5122.	5.2	41
24	Mass Bias Fractionation Laws for Multi-Collector ICPMS: Assumptions and Their Experimental Verification. Analytical Chemistry, 2009, 81, 6774-6778.	6.5	41
25	Certification of natural isotopic abundance inorganic mercury reference material NIMS-1 for absolute isotopic composition and atomic weight. Journal of Analytical Atomic Spectrometry, 2010, 25, 384.	3.0	39
26	Novel Ethyl-Derivatization Approach for the Determination of Fluoride by Headspace Gas Chromatography/Mass Spectrometry. Analytical Chemistry, 2013, 85, 877-881.	6.5	39
27	How to name new chemical elements (IUPAC Recommendations 2016). Pure and Applied Chemistry, 2016, 88, 401-405.	1.9	37
28	HPLC-ICP-MS and ESI-Q-TOF analysis of biomolecules induced in Brassica juncea during arsenic accumulation. Journal of Analytical Atomic Spectrometry, 2004, 19, 153-158.	3.0	36
29	High-precision quadruple isotope dilution method for simultaneous determination of nitrite and nitrate in seawater by GCMS after derivatization with triethyloxonium tetrafluoroborate. Analytica Chimica Acta, 2014, 824, 36-41.	5.4	36
30	Resolving the Germanium Atomic Weight Disparity Using Multicollector ICPMS. Analytical Chemistry, 2010, 82, 4188-4193.	6.5	35
31	Rapid breakdown of brominated flame retardants by soil microorganisms. Journal of Analytical Atomic Spectrometry, 2006, 21, 1232.	3.0	34
32	Negative Chemical Ionization GC/MS Determination of Nitrite and Nitrate in Seawater Using Exact Matching Double Spike Isotope Dilution and Derivatization with Triethyloxonium Tetrafluoroborate. Analytical Chemistry, 2012, 84, 2592-2596.	6.5	33
33	Calibration graphs in isotope dilution mass spectrometry. Analytica Chimica Acta, 2015, 896, 63-67.	5.4	32
34	Definition of the mole (IUPAC Recommendation 2017). Pure and Applied Chemistry, 2018, 90, 175-180.	1.9	32
35	Investigation of selenium-containing root exudates of Brassica juncea using HPLC-ICP-MS and ESI-qTOF-MS. Analyst, The, 2006, 131, 33-40.	3.5	29
36	Mass spectrometric separation and quantitation of overlapping isotopologues. H2O/HOD/D2O and H2Se/HDSe/D2Se mixtures. Journal of the American Society for Mass Spectrometry, 2006, 17, 1028-1036.	2.8	29

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37	Observations of Large Mass-Independent Fractionation Occurring in MC-ICPMS: Implications for Determination of Accurate Isotope Amount Ratios. Analytical Chemistry, 2011, 83, 8999-9004.	6.5	29
38	Calibration of isotope amount ratios by analysis of isotope mixtures. Analytical and Bioanalytical Chemistry, 2012, 403, 2071-2076.	3.7	29
39	Particle Size Distributions for Cellulose Nanocrystals Measured by Transmission Electron Microscopy: An Interlaboratory Comparison. Analytical Chemistry, 2020, 92, 13434-13442.	6.5	29
40	Purity assignment for peptide certified reference materials by combining qNMR and LC-MS/MS amino acid analysis results: application to angiotensin II. Analytical and Bioanalytical Chemistry, 2018, 410, 6719-6731.	3.7	28
41	Preliminary studies on selenium-containing proteins in Brassica juncea by size exclusion chromatography and fast protein liquid chromatography coupled to ICP-MS. Analyst, The, 2004, 129, 116.	3.5	27
42	Interpretation of butyltin mass spectra using isotope pattern reconstruction for the accurate measurement of isotope ratios from molecular clusters. Journal of Mass Spectrometry, 2005, 40, 807-814.	1.6	27
43	A critical review of the proposed definitions of fundamental chemical quantities and their impact on chemical communities (IUPAC Technical Report). Pure and Applied Chemistry, 2017, 89, 951-981.	1.9	27
44	Particle size distributions for cellulose nanocrystals measured by atomic force microscopy: an interlaboratory comparison. Cellulose, 2021, 28, 1387-1403.	4.9	27
45	Retention of Cr(III) by high-performance chelation ion chromatography interfaced to inductively-coupled plasma mass spectrometric detection with collision cell. Journal of Chromatography A, 2004, 1024, 129-137.	3.7	26
46	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. Analytical Chemistry, 2010, 82, 8978-8982.	6.5	26
47	Relative Mass Defect Filtering of High-Resolution Mass Spectra for Exploring Minor Selenium Volatiles in Selenium-Enriched Green Onions. Analytical Chemistry, 2007, 79, 846-853.	6.5	24
48	Coordinate Swapping in Standard Addition Graphs for Analytical Chemistry: A Simplified Path for Uncertainty Calculation in Linear and Nonlinear Plots. Analytical Chemistry, 2014, 86, 8563-8567.	6.5	24
49	Thermal stability of cannabinoids in dried cannabis: a kinetic study. Analytical and Bioanalytical Chemistry, 2022, 414, 377-384.	3.7	24
50	Determination of the Isotopic Composition of Iridium Using Multicollector-ICPMS. Analytical Chemistry, 2017, 89, 9375-9382.	6.5	21
51	Plasma Spectrometry for Elemental Speciation and Characterization in Beverages. Journal of AOAC INTERNATIONAL, 2004, 87, 205-224.	1.5	20
52	Gas chromatographyâ€“mass spectrometry study of hydrogenâ€“deuterium exchange reactions of volatile hydrides of As, Sb, Bi, Ge and Sn in aqueous media. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 778-787.	2.9	20
53	Uncertainty propagation of atomic weight measurement results. Metrologia, 2008, 45, 53-62.	1.2	20
54	General Equation for Multiple Spiking Isotope Dilution Mass Spectrometry. Analytical Chemistry, 2009, 81, 5075-5079.	6.5	20

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55	Inter-laboratory study for the certification of trace elements in seawater certified reference materials NASS-7 and CASS-6. Analytical and Bioanalytical Chemistry, 2018, 410, 4469-4479.	3.7	20
56	Determination of the Isotopic Composition of Osmium Using MC-ICPMS. Analytical Chemistry, 2018, 90, 9281-9288.	6.5	20
57	The role of ICP-MS in inorganic chemical metrology. Metrologia, 2019, 56, 034005.	1.2	20
58	Selenium and Sulfur Trichalcogenides from the Chalcogenide Exchange Reaction. Inorganic Chemistry, 2004, 43, 7486-7492.	4.0	19
59	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. Analytical Chemistry, 2019, 91, 4164-4171.	6.5	19
60	Integrated mass spectrometry in (semi-)metal speciation and its potential in phytochemistry. TrAC - Trends in Analytical Chemistry, 2006, 25, 44-51.	11.4	18
61	Nonlinear Signal Response in Electrospray Mass Spectrometry: Implications for Quantitation of Arsenobetaine Using Stable Isotope Labeling by Liquid Chromatography and Electrospray Orbitrap Mass Spectrometry. Analytical Chemistry, 2012, 84, 3958-3964.	6.5	17
62	Interpreting and propagating the uncertainty of the standard atomic weights (IUPAC Technical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	1.9	17
63	Interpretation of alkyl diselenide and selenosulfenate mass spectra. Journal of the American Society for Mass Spectrometry, 2004, 15, 1325-1332.	2.8	16
64	Signal correlation in isotope ratio measurements with mass spectrometry: Effects on uncertainty propagation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1278-1284.	2.9	16
65	Novel Microcystins from Planktothrix prolifica NIVA-CYA 544 Identified by LC-MS/MS, Functional Group Derivatization and 15N-labeling. Marine Drugs, 2019, 17, 643.	4.6	16
66	Mass spectrometric separation and quantitation of overlapping isotopologues. Deuterium containing hydrides of As, Sb, Bi, Sn, and Ge. Journal of the American Society for Mass Spectrometry, 2007, 18, 337-345.	2.8	15
67	Condensation cascades and methylgroup transfer reactions during the formation of arsane, methyl- and dimethylarsane by aqueous borohydride and (methyl) arsenates. Analytical and Bioanalytical Chemistry, 2012, 402, 921-933.	3.7	15
68	Mohrâ€™s method challenge. Analytical and Bioanalytical Chemistry, 2016, 408, 1721-1722.	3.7	15
69	Isotope scrambling and error magnification in multiple-spiking isotope dilution. Analytical and Bioanalytical Chemistry, 2009, 394, 199-205.	3.7	14
70	The need for a fresh symbol to designate copernicium. Nature, 2009, 461, 341-341.	27.8	14
71	Reducing the matrix effects in chemical analysis: fusion of isotope dilution and standard addition methods. Metrologia, 2016, 53, 829-834.	1.2	14
72	Data reduction framework for standard atomic weights and isotopic compositions of the elements. Metrologia, 2017, 54, 229-238.	1.2	14

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73	Trifluoroacetic acid NMR challenge. Analytical and Bioanalytical Chemistry, 2021, 413, 1-2.	3.7	14
74	Redox titration challenge. Analytical and Bioanalytical Chemistry, 2017, 409, 11-13.	3.7	13
75	Titration endpoint challenge. Analytical and Bioanalytical Chemistry, 2019, 411, 1-2.	3.7	13
76	Mechanism of hydrogen transfer in arsane generation by aqueous tetrahydridoborate: Interference effects of AuIII and other noble metals. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 740-747.	2.9	12
77	Species specific isotope dilution for the accurate and SI traceable determination of arsenobetaine and methylmercury in cuttlefish and prawn. Analytica Chimica Acta, 2016, 943, 41-49.	5.4	12
78	Uncertainty evaluation in normalization of isotope delta measurement results against international reference materials. Analytical and Bioanalytical Chemistry, 2018, 410, 1061-1069.	3.7	12
79	Phenyl-terminated fatty acids in seeds of various aroids. Phytochemistry, 2004, 65, 2229-2237.	2.9	11
80	Describing chemical transformations in multiple spiking isotope dilution: fundamental aspects and definitions. Analyst, The, 2009, 134, 466-471.	3.5	11
81	Three certified sugar reference materials for carbon isotope delta measurements. Rapid Communications in Mass Spectrometry, 2019, 33, 272-280.	1.5	11
82	Interpretation and use of standard atomic weights (IUPAC Technical Report). Pure and Applied Chemistry, 2021, 93, 629-646.	1.9	11
83	A tool to evaluate nonlinearity in calibration curves involving isotopic internal standards in mass spectrometry. International Journal of Mass Spectrometry, 2021, 464, 116557.	1.5	11
84	Atomic weight uncertainty calculation from isotopic composition of the elements. Metrologia, 2008, 45, 459-463.	1.2	10
85	Certification of nitrate in spinach powder reference material SPIN-1 by high-precision isotope dilution GCâ€“MS. Analytical and Bioanalytical Chemistry, 2019, 411, 3435-3445.	3.7	10
86	Isotopic abundance challenge. Analytical and Bioanalytical Chemistry, 2008, 391, 1-2.	3.7	9
87	The Binomial Distribution of Hydrogen and Deuterium in Arsanes, Diarsanes, and Triarsanes Generated from As(<scp>Iii</scp>)/[BH_nD_{4-n}]^{â˜’} and the Effect of Trace Amounts of Rh(<scp>Iii</scp>) Ions. Journal of the American Society for Mass Spectrometry, 2012, 23, 2178-2186.	2.8	9
88	Solution to redox titration challenge. Analytical and Bioanalytical Chemistry, 2017, 409, 4113-4115.	3.7	9
89	Uncertainty of relative sensitivity factors in glow discharge mass spectrometry. Metrologia, 2017, 54, 796-804.	1.2	9
90	Determination of the isotopic composition of hafnium using MC-ICPMS. Metrologia, 2019, 56, 044008.	1.2	9

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91	Determination of the isotopic composition of tungsten using MC-ICP-MS. Analytica Chimica Acta, 2019, 1089, 19-24.	5.4	9
92	Understanding Isotopic Distributions in Mass Spectrometry. Journal of Chemical Education, 2006, 83, 1761.	2.3	8
93	Determination of chemical purity and isotopic composition of natural and carbon-13-labeled arsenobetaine bromide standards by quantitative1H-NMR. Analytical and Bioanalytical Chemistry, 2016, 408, 7413-7421.	3.7	8
94	Discontinuity in the Realization of the Vienna Peedee Belemnite Carbon Isotope Ratio Scale. Analytical Chemistry, 2021, 93, 10740-10743.	6.5	8
95	Mathematical Charm in Chemistry Problems. Journal of Chemical Education, 2004, 81, 995.	2.3	7
96	Blank Correction in Isotope Dilution. Analytical Chemistry, 2015, 87, 10724-10727.	6.5	7
97	Solution to Mohrâ€™s method challenge. Analytical and Bioanalytical Chemistry, 2016, 408, 4469-4471.	3.7	7
98	The comparability of the determination of the molar mass of silicon highly enriched in ²⁸Si: results of the CCQM-P160 interlaboratory comparison and additional external measurements. Metrologia, 2020, 57, 065028.	1.2	7
99	Certification of Uranium Isotope Amount Ratios in a Suite of Uranium Ore Concentrate Certified Reference Materials. Geostandards and Geoanalytical Research, 2022, 46, 43-56.	3.1	7
100	Solution to nascent hydrogen challenge. Analytical and Bioanalytical Chemistry, 2008, 392, 771-772.	3.7	6
101	Diophantine analysis complements electrosprayâ€Qâ€TOF data for structure elucidation of transferrin glycoforms used for clinical diagnosis in human serum and cerebrospinal fluid. Proteomics, 2009, 9, 1109-1113.	2.2	6
102	Comment on the uncertainties in isotope patterns of molecules. Analytica Chimica Acta, 2011, 694, 174-176.	5.4	6
103	An ode to the atomic weights. Nature Chemistry, 2014, 6, 749-750.	13.6	6
104	Determination of the Isotopic Composition of Zirconium Using MC-ICPMS and a Regression Model for Mass Bias Correction. Analytical Chemistry, 2021, 93, 5107-5113.	6.5	6
105	Production and stability of Oxygen-18 labeled Caribbean ciguatoxins and gambierones. Toxicon, 2022, 211, 11-20.	1.6	6
106	Assessing MS-based quantitation strategies for low-level impurities in peptide reference materials: application to angiotensin II. Analytical and Bioanalytical Chemistry, 2018, 410, 6963-6972.	3.7	5
107	Determination of the isotopic composition of lutetium using MC-ICPMS. Analytical and Bioanalytical Chemistry, 2020, 412, 6257-6263.	3.7	5
108	Determination of the Isotopic Composition of Gadolinium Using Multicollector Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2020, 92, 6103-6110.	6.5	5

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109	Preparation and certification of natural and 82Se-labelled selenomethionine reference materials. Journal of Analytical Atomic Spectrometry, 2021, 36, 416-428.	3.0	5
110	Solution to Isotope Pattern Geometry Challenge. Analytical and Bioanalytical Chemistry, 2005, 381, 13-13.	3.7	4
111	The ultimate â€œanalytical challengeâ€• what is analytical chemistry?. Analytical and Bioanalytical Chemistry, 2009, 394, 7-8.	3.7	4
112	Papal chemistry challenge. Analytical and Bioanalytical Chemistry, 2013, 405, 6897-6898.	3.7	4
113	Certification of Ochratoxin A Reference Materials: Calibration Solutions OTAN-1 and OTAL-1 and a Mycotoxin-Contaminated Rye Flour MYCO-1. Journal of AOAC INTERNATIONAL, 2019, 102, 1756-1766.	1.5	4
114	Application of regression methods to solve general isotope dilution measurement equations. Metrologia, 2020, 57, 025016.	1.2	4
115	Final report of the SIM.QM-S7 supplementary comparison, trace metals in drinking water. Metrologia, 2018, 55, 08002-08002.	1.2	4
116	Speciation of volatile selenium species in plants using gas chromatography/inductively coupled plasma mass spectrometry. Chinese Journal of Chromatography (Se Pu), 2004, 22, 16-9.	0.8	4
117	Final report on CCQM-K167: carbon isotope delta measurements of vanillin. Metrologia, 2022, 59, 08004.	1.2	4
118	A chemical uncertainty principle challenge. Analytical and Bioanalytical Chemistry, 2007, 387, 1583-1584.	3.7	3
119	Mendeleyev vodka challenge. Analytical and Bioanalytical Chemistry, 2009, 394, 9-10.	3.7	3
120	Avogadro constant challenge. Analytical and Bioanalytical Chemistry, 2010, 397, 1-2.	3.7	3
121	Errors-in-variables calibration with dark uncertainty. Metrologia, 2022, 59, 045002.	1.2	3
122	Isotope Pattern Geometry Challenge. Analytical and Bioanalytical Chemistry, 2004, 380, 3-4.	3.7	2
123	DNA Sequencing Challenge. Analytical and Bioanalytical Chemistry, 2006, 384, 11-13.	3.7	2
124	Solution to the chemical uncertainty principle challenge. Analytical and Bioanalytical Chemistry, 2007, 388, 995-996.	3.7	2
125	Nascent hydrogen challenge. Analytical and Bioanalytical Chemistry, 2008, 391, 1475-1476.	3.7	2
126	Random error propagation challenge. Analytical and Bioanalytical Chemistry, 2009, 395, 5-6.	3.7	2

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127	Solution to Mendeleyev vodka challenge. Analytical and Bioanalytical Chemistry, 2009, 395, 7-8.	3.7	2
128	Beryllium valence challenge. Analytical and Bioanalytical Chemistry, 2010, 396, 185-186.	3.7	2
129	Solution to random error propagation challenge. Analytical and Bioanalytical Chemistry, 2010, 396, 187-188.	3.7	2
130	Solution to measurement uncertainty challenge. Analytical and Bioanalytical Chemistry, 2017, 409, 5799-5801.	3.7	2
131	Guides in Metrology. Chemistry International, 2017, 39, .	0.3	2
132	Solution to titration endpoint challenge. Analytical and Bioanalytical Chemistry, 2019, 411, 3705-3706.	3.7	2
133	Elemental pub quiz challenge. Analytical and Bioanalytical Chemistry, 2019, 411, 6531-6532.	3.7	2
134	Certification of Ochratoxin A Reference Materials: Calibration Solutions OTAN-1 and OTAL-1 and a Mycotoxin-Contaminated Rye Flour MYCO-1. Journal of AOAC INTERNATIONAL, 2019, 102, 1756-1766.	1.5	2
135	Development of low and elevated level multivitamin and mineral supplement certified reference materials: VITA-1 and VITB-1. Accreditation and Quality Assurance, 2020, 25, 201-220.	0.8	2
136	Politics at the periodic table. Nature Chemistry, 2021, 13, 814-816.	13.6	2
137	Final report of the SIM.QM-S8 supplementary comparison, trace metals in drinking water. Metrologia, 2018, 55, 08003-08003.	1.2	2
138	Mass fraction assignment of Amino Acids in acidic aqueous solution (CCQM-K78.a). Metrologia, 2019, 56, 08010.	1.2	2
139	High polarity analytes in food - enrofloxacin and sulfadiazine in bovine tissue (CCQM-K141). Metrologia, 2019, 56, 08005.	1.2	2
140	Plasma spectrometry for elemental speciation and characterization in beverages. Journal of AOAC INTERNATIONAL, 2004, 87, 205-24.	1.5	2
141	Interlaboratory comparisons of chemical measurements: Quo Vadis?. Accreditation and Quality Assurance, 2023, 28, 89-93.	0.8	2
142	Informatics and Mass Spectrometry Challenge. Analytical and Bioanalytical Chemistry, 2005, 381, 11-12.	3.7	1
143	Solution to the Mass Spectrometry Challenge. Analytical and Bioanalytical Chemistry, 2005, 383, 728-728.	3.7	1
144	Solution to Informatics and Mass Spectrometry Challenge. Analytical and Bioanalytical Chemistry, 2005, 382, 4-5.	3.7	1

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145	Mass spectrometry challenge. Analytical and Bioanalytical Chemistry, 2005, 382, 1206-1206.	3.7	1
146	A Geometric Chemistry Challenge. Analytical and Bioanalytical Chemistry, 2006, 385, 790-791.	3.7	1
147	Solution to Goldberg variations challenge. Analytical and Bioanalytical Chemistry, 2006, 386, 4-4.	3.7	1
148	Half-titration challenge. Analytical and Bioanalytical Chemistry, 2007, 388, 993-994.	3.7	1
149	Solution to half-titration challenge. Analytical and Bioanalytical Chemistry, 2007, 389, 1301-1302.	3.7	1
150	Birthday chromatography challenge. Analytical and Bioanalytical Chemistry, 2008, 390, 77-78.	3.7	1
151	Solution to the birthday chromatography challenge. Analytical and Bioanalytical Chemistry, 2008, 391, 3-5.	3.7	1
152	Solution to isotopic abundance challenge. Analytical and Bioanalytical Chemistry, 2008, 392, 17-18.	3.7	1
153	Precision weighing challenge. Analytical and Bioanalytical Chemistry, 2009, 393, 405-406.	3.7	1
154	Solution to radioactive Jeopardy challenge. Analytical and Bioanalytical Chemistry, 2011, 401, 1095-1096.	3.7	1
155	Peptide sequencing challenge. Analytical and Bioanalytical Chemistry, 2012, 404, 931-932.	3.7	1
156	Platoâ€™s elements challenge. Analytical and Bioanalytical Chemistry, 2012, 402, 35-37.	3.7	1
157	Symbols of the Elements, Part III (concluded)*. Chemistry International, 2014, 36, 25-26.	0.3	1
158	Left-handed DNA challenge. Analytical and Bioanalytical Chemistry, 2015, 407, 645-646.	3.7	1
159	Solution to precision mixology challenge. Analytical and Bioanalytical Chemistry, 2016, 408, 3055-3056.	3.7	1
160	Precision mixology challenge. Analytical and Bioanalytical Chemistry, 2016, 408, 7-7.	3.7	1
161	Measurement uncertainty challenge. Analytical and Bioanalytical Chemistry, 2017, 409, 2497-2497.	3.7	1
162	Mole: The unit of chemical amount. IEEE Instrumentation and Measurement Magazine, 2019, 22, 21-24.	1.6	1

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163	CRM rapid response approach for the certification of arsenic species and toxic trace elements in baby cereal coarse rice flour certified reference material BARI-1. Analytical and Bioanalytical Chemistry, 2020, 412, 4363-4373.	3.7	1
164	Symbols of the Elements, Part II. Chemistry International, 2014, 36, .	0.3	1
165	Data averaging challenge. Analytical and Bioanalytical Chemistry, 2022, 414, 29-30.	3.7	1
166	Final report on pilot study CCQM-P211: carbon isotope delta measurements of vanillin. Metrologia, 2022, 59, 08005.	1.2	1
167	The unit that shall not be named. Nature Physics, 2022, 18, 602-602.	16.7	1
168	Chemical Logic Challenge. Analytical and Bioanalytical Chemistry, 2004, 378, 1139-1140.	3.7	0
169	Solution to chemical logic. Analytical and Bioanalytical Chemistry, 2004, 379, 746.	3.7	0
170	Solution to DNA Sequencing Challenge. Analytical and Bioanalytical Chemistry, 2006, 385, 8-9.	3.7	0
171	Goldberg Variations Challenge. Analytical and Bioanalytical Chemistry, 2006, 385, 6-7.	3.7	0
172	Solution to geometric chemistry challenge. Analytical and Bioanalytical Chemistry, 2006, 386, 1197-1197.	3.7	0
173	Solution to precision weighing challenge. Analytical and Bioanalytical Chemistry, 2009, 394, 11-12.	3.7	0
174	Solution to the beryllium valence challenge. Analytical and Bioanalytical Chemistry, 2010, 397, 3-3.	3.7	0
175	Solution to the Avogadro constant challenge. Analytical and Bioanalytical Chemistry, 2010, 398, 11-12.	3.7	0
176	Radioactive Jeopardy challenge. Analytical and Bioanalytical Chemistry, 2011, 400, 1537-1538.	3.7	0
177	On the molar mass of silicon for a new Avogadro constant. , 2012, , .		0
178	Solution to Platoâ€™s elements challenge. Analytical and Bioanalytical Chemistry, 2012, 403, 635-635.	3.7	0
179	Solution to peptide sequencing challenge. Analytical and Bioanalytical Chemistry, 2013, 405, 17-17.	3.7	0
180	Solution to papal chemistry challenge. Analytical and Bioanalytical Chemistry, 2014, 406, 7-7.	3.7	0

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181	The Last Alchemist in Paris. Chemistry International, 2014, 36, .	0.3	0
182	Solution to the left-handed DNA challenge. Analytical and Bioanalytical Chemistry, 2015, 407, 3267-3267.	3.7	0
183	Isotopic Abundances and Atomic Weights: IUPAC Commission II.1 Today. Chemistry International, 2019, 41, 24-26.	0.3	0
184	Solution to elemental pub quiz challenge. Analytical and Bioanalytical Chemistry, 2020, 412, 1961-1961.	3.7	0
185	Solution to trifluoroacetic acid NMR challenge. Analytical and Bioanalytical Chemistry, 2021, 413, 4109-4110.	3.7	0
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187	IUPAC Periodic Table Challenge. Chemistry International, 2020, 42, 18-21.	0.3	0
188	Solution to isotope delta challenge. Analytical and Bioanalytical Chemistry, 2022, 414, 2793-2793.	3.7	0
189	Solution to the data averaging challenge. Analytical and Bioanalytical Chemistry, 2022, 414, 4537-4538.	3.7	0