

Jorge Ruiz Encinar

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107
papers

3,222
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35
h-index

52
g-index

110
ext. papers

3,485
ext. citations

5.9
avg, IF

5.22
L-index

#	Paper	IF	Citations
107	The emerging role of ICP-MS in proteomic analysis. <i>Journal of Proteomics</i> , 2009 , 72, 989-1005	3.9	143
106	Triple quad ICPMS (ICPQQQ) as a new tool for absolute quantitative proteomics and phosphoproteomics. <i>Analytical Chemistry</i> , 2012 , 84, 5851-7	7.8	134
105	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
104	Elemental mass spectrometry for quantitative proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 3-16	4.4	115
103	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
102	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
101	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
100	ICP-MS for absolute quantification of proteins for heteroatom-tagged, targeted proteomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 40, 52-63	14.6	78
99	Interfacing reversed-phase nanoHPLC with ICP-MS and on-line isotope dilution analysis for the accurate quantification of selenium-containing peptides in protein tryptic digests. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 1101	3.7	77
98	Standardization approaches in absolute quantitative proteomics with mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2018 , 37, 715-737	11	75
97	Methodological advances for selenium speciation analysis in yeast. <i>Analytica Chimica Acta</i> , 2003 , 500, 171-183	6.6	72
96	Evaluation of extraction techniques for the determination of butyltin compounds in sediments using isotope dilution-GC/ICPMS with ¹¹⁸ Sn and ¹¹⁹ Sn-enriched species. <i>Analytical Chemistry</i> , 2002 , 74, 270-81	7.8	65
95	Titanium levels in the organs and blood of rats with a titanium implant, in the absence of wear, as determined by double-focusing ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 335-43	4.4	64
94	A systematic approach to selenium speciation in selenized yeast. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 114-120	3.7	62
93	Calcification rate and temperature effects on Sr partitioning in coccoliths of multiple species of coccolithophorids in culture. <i>Global and Planetary Change</i> , 2002 , 34, 153-171	4.2	62
92	A comparison between quadrupole, double focusing and multicollector ICP-MS instruments. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 315-321	3.7	61
91	Mercury speciation analysis in sea water by solid phase microextraction as gas chromatography-inductively coupled plasma mass spectrometry using ethyl and propyl derivatization. Matrix effects evaluation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004 , 59, 59-66	3.1	56

90	Selenium bioaccessibility assessment in selenized yeast after "in vitro" gastrointestinal digestion using two-dimensional chromatography and mass spectrometry. <i>Journal of Chromatography A</i> , 2006 , 1110, 108-16	4.5	54
89	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>Analyt, The</i> , 2003 , 128, 220-4	5	54
88	Simultaneous determination of mono-, di-, and tributyltin in sediments by isotope dilution analysis using gas chromatography-ICPMS. <i>Analytical Chemistry</i> , 2001 , 73, 3174-80	7.8	52
87	Absolute and site-specific quantification of protein phosphorylation using integrated elemental and molecular mass spectrometry: its potential to assess phosphopeptide enrichment procedures. <i>Analytical Chemistry</i> , 2008 , 80, 1777-87	7.8	51
86	A first look at paleotemperature prospects from Mg in coccolith carbonate: Cleaning techniques and culture measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2001 , 2, n/a-n/a	3.6	48
85	Capillary HPLC-ICPMS and tyrosine iodination for the absolute quantification of peptides using generic standards. <i>Analytical Chemistry</i> , 2009 , 81, 5390-9	7.8	47
84	Investigation of the recovery of selenomethionine from selenized yeast by two-dimensional LC-ICP MS. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 381, 844-9	4.4	47
83	Elemental and molecular detection for Quantum Dots-based immunoassays: a critical appraisal. <i>Biosensors and Bioelectronics</i> , 2012 , 33, 165-71	11.8	42
82	Development of a triple spike methodology for validation of butyltin compounds speciation analysis by isotope dilution mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 685-691	3.7	42
81	Evaluation of accelerated solvent extraction for butyltin speciation in PACS-2 CRM using double-spike isotope dilution-GC/ICPMS. <i>Analytical Chemistry</i> , 2002 , 74, 5237-42	7.8	41
80	Elemental Mass Spectrometry for Absolute Intact Protein Quantification without Protein-Specific Standards: Application to Snake Venomics. <i>Analytical Chemistry</i> , 2016 , 88, 9699-9706	7.8	41
79	Carbon Quantum Dots Codoped with Nitrogen and Lanthanides for Multimodal Imaging. <i>Advanced Functional Materials</i> , 2019 , 29, 1903884	15.6	38
78	Mass spectrometry for the characterisation of nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 5637-43	4.4	38
77	Mass spectrometry for the characterization and quantification of engineered inorganic nanoparticles. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 84, 139-148	14.6	37
76	Elemental mass spectrometry: a powerful tool for an accurate characterisation at elemental level of quantum dots. <i>Chemical Communications</i> , 2009 , 3107-9	5.8	37
75	Identification of selenium species in selenium-enriched <i>Lens esculenta</i> plants by using two-dimensional liquid chromatography-inductively coupled plasma mass spectrometry and [⁷⁷ Se]selenomethionine selenium oxide spikes. <i>Journal of Chromatography A</i> , 2007 , 1139, 247-53	4.5	37
74	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	4.4	37
73	Synthesis and application of isotopically labelled dibutyltin for isotope dilution analysis using gas chromatography-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 1233-1239	3.7	37

72	Determination of butyltin compounds in coastal sea-water samples using isotope dilution GC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 824-830	3.7	35
71	Absolute venomics: Absolute quantification of intact venom proteins through elemental mass spectrometry. <i>Journal of Proteomics</i> , 2017 , 164, 33-42	3.9	34
70	HPLC-ICPMS and stable isotope-labeled approaches to assess quantitatively Ti(IV) uptake by transferrin in human blood serum. <i>Analytical Chemistry</i> , 2008 , 80, 8702-11	7.8	33
69	Determination of butyltin compounds in environmental samples by isotope-dilution GC-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 373, 432-40	4.4	32
68	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
67	New integrated elemental and molecular strategies as a diagnostic tool for the quality of water soluble quantum dots and their bioconjugates. <i>Nanoscale</i> , 2011 , 3, 954-7	7.7	31
66	Functionalized phosphorescent nanoparticles in (bio)chemical sensing and imaging - A review. <i>Analytica Chimica Acta</i> , 2019 , 1046, 16-31	6.6	30
65	Determination of cadmium in environmental and biological reference materials using isotope dilution analysis with a double focusing ICP-MS: a comparison with quadrupole ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 1467-1473	3.7	30
64	Highly sensitive nanoparticle-based immunoassays with elemental detection: Application to Prostate-Specific Antigen quantification. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 128-134	11.8	30
63	Quantitative protein phosphorylation analysis: the role of ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 1223	3.7	29
62	The use of elemental mass spectrometry in phosphoproteomic applications. <i>Mass Spectrometry Reviews</i> , 2016 , 35, 350-60	11	27
61	Advances in absolute protein quantification and quantitative protein mapping using ICP-MS. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 104, 148-159	14.6	27
60	Elemental ratios for characterization of quantum-dots populations in complex mixtures by asymmetrical flow field-flow fractionation on-line coupled to fluorescence and inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2014 , 839, 8-13	6.6	26
59	Isotope pattern deconvolution for internal mass bias correction in the characterisation of isotopically enriched spikes. <i>Journal of Analytical Atomic Spectrometry</i> , 2008 , 23, 318-324	3.7	26
58	Isotope ratio measurements using gas chromatography inductively coupled plasma mass spectrometry for the assessment of organolead sources. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 475-480	3.7	26
57	Application of species-specific isotope dilution analysis to the correction for selenomethionine oxidation in Se-enriched yeast sample extracts during storage. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 1061	3.7	25
56	Capping of Mn-Doped ZnS Quantum Dots with DHLA for Their Stabilization in Aqueous Media: Determination of the Nanoparticle Number Concentration and Surface Ligand Density. <i>Langmuir</i> , 2017 , 33, 6333-6341	4	24
55	Sensitive targeted multiple protein quantification based on elemental detection of quantum dots. <i>Analytica Chimica Acta</i> , 2015 , 879, 77-84	6.6	24

54	Protein-species quantitative venomics: looking through a crystal ball. <i>Journal of Venomous Animals and Toxins Including Tropical Diseases</i> , 2017 , 23, 27	2.2	23
53	A comparison between quadrupole, double focusing and multicollector ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 322-326	3.7	23
52	Identification of non-peptide species in selenized yeast by MALDI mass spectrometry using post-source decay and orthogonal Q-TOF detection. <i>Analyst, The</i> , 2004 , 129, 846-9	5	22
51	Bromine determination in polymers by inductively coupled plasma-mass spectrometry and its potential for fast first screening of brominated flame retardants in polymers and paintings. <i>Analytica Chimica Acta</i> , 2008 , 623, 140-5	6.6	21
50	Asymmetric flow field-flow fractionation coupled to inductively coupled plasma mass spectrometry for the quantification of quantum dots bioconjugation efficiency. <i>Journal of Chromatography A</i> , 2015 , 1422, 247-252	4.5	19
49	Contamination of the Coastal Waters of Gijón (North West Spain) by Butyltin Compounds. <i>Water, Air, and Soil Pollution</i> , 2006 , 174, 127-139	2.6	19
48	Isotope dilution analysis as a definitive tool for the speciation of organotin compounds. <i>Analyst, The</i> , 2003 , 128, 447-52	5	19
47	Voltammetric determination of size and particle concentration of Cd-based quantum dots. <i>Electrochimica Acta</i> , 2015 , 166, 100-106	6.7	17
46	A quantitative universal detection system for organic compounds in gas chromatography with isotopically enriched (13)CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2561-4	16.4	17
45	Precise determination of the nanoparticle concentration and ligand density of engineered water-soluble HgSe fluorescent nanoparticles. <i>RSC Advances</i> , 2016 , 6, 19964-19972	3.7	16
44	Monitoring the degradation and solubilisation of butyltin compounds during in vitro gastrointestinal digestion using "triple spike" isotope dilution GC-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 381, 380-7	4.4	15
43	Quantitative Assessment of Individual Populations Present in Nanoparticle-Antibody Conjugate Mixtures Using AF4-ICP-MS/MS. <i>Analytical Chemistry</i> , 2019 , 91, 3567-3574	7.8	13
42	Determination of low B/Ca ratios in carbonates using ICP-QQQ. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 2005-2014	3.6	12
41	Gas chromatography-combustion-mass spectrometry with postcolumn isotope dilution for compound-independent quantification: its potential to assess HS-SPME procedures. <i>Analytical Chemistry</i> , 2010 , 82, 6862-9	7.8	12
40	Universal absolute quantification of biomolecules using element mass spectrometry and generic standards. <i>Chemical Communications</i> , 2018 , 54, 904-907	5.8	11
39	Quantification of bromine in flame-retardant coatings by radiofrequency glow discharge-optical emission spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 389, 683-90	4.4	11
38	A reflection on the role of ICP-MS in proteomics: Update and future perspective. <i>Journal of Proteomics</i> , 2019 , 198, 11-17	3.9	11
37	Instrumental Setup for Simultaneous Total and Speciation Analysis of Volatile Arsenic Compounds in Gas and Liquefied Gas Samples. <i>Analytical Chemistry</i> , 2017 , 89, 5719-5724	7.8	10

36	Mass Spectrometry for the Characterization of Gold Nanoparticles. <i>Comprehensive Analytical Chemistry</i> , 2014 , 66, 329-356	1.9	10
35	Study of conformational changes and protein aggregation of bovine serum albumin in presence of Sb(III) and Sb(V). <i>PLoS ONE</i> , 2017 , 12, e0170869	3.7	10
34	Comparison of gas chromatography-combustion-mass spectrometry and gas chromatography-flame ionization detector for the determination of fatty acid methyl esters in biodiesel without specific standards. <i>Journal of Chromatography A</i> , 2016 , 1457, 134-43	4.5	9
33	Liquid chromatography, chemical oxidation, and online carbon isotope dilution mass spectrometry as a universal quantification system for nonvolatile organic compounds. <i>Analytical Chemistry</i> , 2013 , 85, 1873-9	7.8	9
32	Capabilities of asymmetrical flow field - Flow fractionation on-line coupled to different detectors for characterization of water-stabilized quantum dots bioconjugated to biomolecules. <i>Talanta</i> , 2020 , 206, 120228	6.2	9
31	Evaluation of online carbon isotope dilution mass spectrometry for the purity assessment of synthetic peptide standards. <i>Analytica Chimica Acta</i> , 2014 , 844, 48-53	6.6	8
30	Isotope dilution analysis for speciation. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 375, 41-3	4.4	8
29	Integrated analytical platforms for the comprehensive characterization of bioconjugated inorganic nanomaterials aiming at biological applications. <i>Journal of Analytical Atomic Spectrometry</i> , 2020 , 35, 1518-1529 ⁸	3.7	8
28	Determination of the ratio of fluorophore/nanoparticle for fluorescence-labelled nanoparticles. <i>Analyst, The</i> , 2016 , 141, 1266-72	5	7
27	Assessment of the removal of side nanoparticulated populations generated during one-pot synthesis by asymmetric flow field-flow fractionation coupled to elemental mass spectrometry. <i>Journal of Chromatography A</i> , 2017 , 1519, 156-161	4.5	7
26	Recent advances in GC-ICP-MS: Focus on the current and future impact of MS/MS technology. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 130, 115963	14.6	6
25	Separation Techniques 147-239		6
24	Assessment of the Potential and Limitations of Elemental Mass Spectrometry in Life Sciences for Absolute Quantification of Biomolecules Using Generic Standards. <i>Analytical Chemistry</i> , 2020 , 92, 13500-13508 ⁶	7.8	6
23	Enhanced Universal Quantification of Biomolecules Using Element MS and Generic Standards: Application to Intact Protein and Phosphoprotein Determination. <i>Analytical Chemistry</i> , 2019 , 91, 1105-1112 ⁷	7.8	6
22	Controlling Ligand Surface Density on Streptavidin-Magnetic Particles by a Simple, Rapid, and Reliable Chemiluminescent Test. <i>Bioconjugate Chemistry</i> , 2018 , 29, 2646-2653	6.3	5
21	Anion-Specific Sulfur Isotope Analysis by Liquid Chromatography Coupled to Multicollector ICPMS. <i>Analytical Chemistry</i> , 2019 , 91, 10088-10094	7.8	5
20	GC-ICP-MS/MS Instrumental Setup for Total and Speciation Sulfur Analysis in Gasolines using Generic Standards. <i>Analytical Chemistry</i> , 2019 , 91, 7019-7024	7.8	4
19	Modification of a commercial gas chromatography isotope ratio mass spectrometer for on-line carbon isotope dilution: Evaluation of its analytical characteristics for the quantification of organic compounds. <i>Journal of Chromatography A</i> , 2015 , 1419, 99-108	4.5	4

18	Quantitative assessment of cellular uptake and differential toxic effects of HgSe nanoparticles in human cells. <i>Journal of Analytical Atomic Spectrometry</i> , 2020 , 35, 1979-1988	3.7	4
17	Isotopically enriched nanoparticles in combination with mass spectrometry for the assessment of nanoparticle-biomolecule stoichiometries in engineered nanoassemblies. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018 , 149, 99-106	3.1	4
16	Element mass spectrometry as a tool for high-resolution temporal dynamics investigations of peptide phosphorylation. <i>Chemical Communications</i> , 2008 , 6230-2	5.8	4
15	Isotope Dilution Mass Spectrometry for Highly Precise Determination of Dissolved Inorganic Carbon in Seawater Aiming at Climate Change Studies. <i>Analytical Chemistry</i> , 2018 , 90, 4677-4685	7.8	3
14	Towards compound-independent calibration for organic compounds using online isotope dilution mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 91-7	4.4	3
13	Catalytic Gold Deposition for Ultrasensitive Optical Immunosensing of Prostate Specific Antigen. <i>Sensors</i> , 2020 , 20,	3.8	3
12	Simple and rapid electrochemical quantification of water-stabilized HgSe nanoparticles of great concern in environmental studies. <i>Talanta</i> , 2019 , 200, 72-77	6.2	2
11	Signal amplification strategies for clinical biomarker quantification using elemental mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	2
10	Absolute quantification of proteins using element mass spectrometry and generic standards.. <i>Journal of Proteomics</i> , 2022 , 256, 104499	3.9	1
9	Formation Mechanism and Toxicological Significance of Biogenic Mercury Selenide Nanoparticles in Human Hepatoma HepG2 Cells. <i>Chemical Research in Toxicology</i> , 2021 ,	4	1
8	Combined Molecular and Elemental Mass Spectrometry Approaches for Absolute Quantification of Proteomes: Application to the Venomics Characterization of the Two Species of Desert Black Cobras, and. <i>Journal of Proteome Research</i> , 2021 , 20, 5064-5078	5.6	1
7	Distributions of mercury and selenium in rats ingesting mercury selenide nanoparticles. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 226, 112867	7	1
6	Quantitative multiplexed elemental (C, H, N and S) detection in complex mixtures using gas chromatography. <i>Chemical Communications</i> , 2020 , 56, 2905-2908	5.8	1
5	Methods for the Analysis of Key Organic Impurities in Biogas 2016 ,		1
4	Linking analytical chemistry Master's programs: the Franco (Pau)-Spanish (Oviedo) case. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 8693-8	4.4	
3	Optical Atomic Spectrometry: An Overview 2018 , 99-99		
2	Reply to comments by S. K. Aggarwal and C.-F. You on Determination of low B/Ca ratios in carbonates using ICP-QQQ <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 1232-1233	3.6	
1	Phosphorescence Principles and Instrumentation 2018 , 284-284		

