

# Juan M Marchante-Gay

## List of Publications by Year in descending order

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39  
papers

1,852  
citations

279798

23  
h-index

315739

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1425  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotope dilution analysis for elemental speciation: a tutorial review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 151-207.	2.9	341
2	Quantitative speciation of selenium in human serum by affinity chromatography coupled to post-column isotope dilution analysis ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1210-1216.	3.0	123
3	Total determination and quantitative speciation analysis of selenium in yeast and wheat flour by isotope dilution analysis ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1243-1247.	3.0	98
4	Speciation of essential elements in human serum using anion-exchange chromatography coupled to post-column isotope dilution analysis with double focusing ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 587-592.	3.0	92
5	Determination of selenium in biological materials by isotope dilution analysis with an octapole reaction system ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 11-16.	3.0	88
6	High-resolution ICP-MS determination of Ti, V, Cr, Co, Ni, and Mo in human blood and urine of patients implanted with a hip or knee prosthesis. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2583-2589.	3.7	86
7	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, 335-343.	3.7	78
8	Comparison of different nebulisers and chromatographic techniques for the speciation of selenium in nutritional commercial supplements by hexapole collision and reaction cell ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 1093-1102.	3.0	71
9	Selenium bioaccessibility assessment in selenized yeast after <i>in vitro</i> gastrointestinal digestion using two-dimensional chromatography and mass spectrometry. <i>Journal of Chromatography A</i> , 2006, 1110, 108-116.	3.7	62
10	Multi-elemental trace analysis of human serum by double-focusing ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 193-198.	3.0	59
11	Reference Values for Trace and Ultratrace Elements in Human Serum Determined by Double-Focusing ICP-MS. <i>Biological Trace Element Research</i> , 2001, 82, 259-272.	3.5	55
12	Accurate determination of iron, copper and zinc in human serum by isotope dilution analysis using double focusing ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 1505-1510.	3.0	54
13	Sulfur analysis by inductively coupled plasma-mass spectrometry: A review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 108, 35-52.	2.9	53
14	Biosynthesis of isotopically enriched selenomethionine: application to its accurate determination in selenium-enriched yeast by isotope dilution analysis-HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 1230-1235.	3.0	47
15	ICP-MS multielemental determination of metals potentially released from dental implants and articular prostheses in human biological fluids. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 1001-1009.	3.7	45
16	Measurement of longitudinal sulfur isotopic variations by laser ablation MC-ICP-MS in single human hair strands. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 225-233.	3.7	41
17	Multielemental trace analysis of biological materials using double focusing inductively coupled plasma mass spectrometry detection. <i>Analytica Chimica Acta</i> , 1999, 400, 307-320.	5.4	37
18	Application of Isotope Dilution Analysis for the Evaluation of Extraction Conditions in the Determination of Total Selenium and Selenomethionine in Yeast-Based Nutritional Supplements. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 1557-1563.	5.2	36

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19	Vesicle-mediated high-performance liquid chromatography coupled to atomic detection for speciation of toxic elements. <i>Journal of Chromatography A</i> , 1994, 683, 233-243.	3.7	34
20	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, 8702-8711.	6.5	34
21	Evaluation of different analytical strategies for the quantification of sulfur-containing biomolecules by HPLC-ICP-MS: Application to the characterisation of <sup>34</sup> S-labelled yeast. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 989.	3.0	32
22	Selenium speciation by coupling vesicle mediated HPLC with off-line ETAAS and on-line focused microwave digestion HG-AAS detection. <i>Analytical and Bioanalytical Chemistry</i> , 1996, 355, 615-622.	3.7	29
23	Comparison of electrothermal atomic absorption spectrometry, quadrupole inductively coupled plasma mass spectrometry and double-focusing sector field inductively coupled plasma mass spectrometry for the determination of aluminium in human serum. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 283-287.	3.0	27
24	Biosynthesis of sulfur- <sup>34</sup> labelled yeast and its characterisation by multicollector-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1105.	3.0	23
25	Determination of chromium in biological fluids by electrothermal atomic absorption spectrometry using wall, platform and probe atomization from different graphite surfaces. <i>Journal of Analytical Atomic Spectrometry</i> , 1994, 9, 117-123.	3.0	22
26	Different Quantification Approaches for the Analysis of Biological and Environmental Samples Using Inductively Coupled Plasma Mass Spectrometry. , 1997, 32, 556-564.		22
27	Determination of trihalomethanes in drinking water by GC-ICP-MS using compound independent calibration with internal standard. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1138.	3.0	21
28	Internal correction of spectral interferences and mass bias in ICP-MS using isotope pattern deconvolution: Application to the determination of selenium in biological samples by isotope dilution analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 579.	3.0	20
29	Synthesis of <sup>81</sup> Br-Labeled Polybrominated Diphenyl Ethers and Their Characterization Using GC(EI)MS and GC(ICP)MS. <i>Analytical Chemistry</i> , 2010, 82, 2879-2887.	6.5	16
30	Platform, wall and probe electrothermal atomization for the determination of aluminium in clinical fluids. <i>Journal of Analytical Atomic Spectrometry</i> , 1992, 7, 743-747.	3.0	14
31	Elemental analysis of silicon based minerals by ultrasonic slurry sampling electrothermal vaporisation ICP-MS. <i>Talanta</i> , 2006, 68, 869-875.	5.5	14
32	Determination of ultra-trace levels of priority PBDEs in water samples by isotope dilution GC(ECNI)MS using <sup>81</sup> Br-labelled standards. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 2639-2649.	3.7	12
33	Development of a Direct Procedure for the Measurement of Sulfur Isotope Variability in Beers by MC-ICP-MS. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 4043-4050.	5.2	11
34	Determination of Priority Polybrominated Diphenyl Ethers by Isotope Dilution Gas Chromatography(Electron Ionization)MS Using <sup>81</sup> Br-Labeled Standards. <i>Analytical Chemistry</i> , 2011, 83, 3024-3032.	6.5	11
35	Determination of lead in human urine using electrothermal atomic absorption spectrometry with probe atomization and deuterium background correction. <i>Journal of Analytical Atomic Spectrometry</i> , 1993, 8, 731-736.	3.0	10
36	Determination of cadmium in human urine using electrothermal atomic absorption spectrometry with probe atomization and deuterium background correction. <i>Journal of Analytical Atomic Spectrometry</i> , 1992, 7, 1079-1083.	3.0	9

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37	Double-focusing ICP-MS for the analysis of biological materials. Analytical and Bioanalytical Chemistry, 2004, 379, 335-337.	3.7	9
38	Sulphur tracer experiments in laboratory animals using <sup>34</sup> S-labelled yeast. Analytical and Bioanalytical Chemistry, 2013, 405, 2889-2899.	3.7	8
39	Evaluation of multi-collector inductively coupled plasma mass spectrometry (MC-ICP-MS) for sulfur metabolic studies using <sup>34</sup> S-labelled yeast. Journal of Analytical Atomic Spectrometry, 2015, 30, 1764-1773.	3.0	8