

Alfredo Sanz-Medel

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395 papers	12,014 citations	53 h-index	81 g-index
415 ext. papers	12,735 ext. citations	5.1 avg, IF	6.31 L-index

#	Paper	IF	Citations
395	The use of luminescent quantum dots for optical sensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 207-218	14.6	427
394	Isotope dilution analysis for elemental speciation: a tutorial review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005 , 60, 151-207	3.1	314
393	Photoactivated luminescent CdSe quantum dots as sensitive cyanide probes in aqueous solutions. <i>Chemical Communications</i> , 2005 , 883-5	5.8	279
392	Surface-modified CdSe quantum dots for the sensitive and selective determination of Cu(II) in aqueous solutions by luminescent measurements. <i>Analytica Chimica Acta</i> , 2005 , 549, 20-25	6.6	179
391	Surface-modified CdSe quantum dots as luminescent probes for cyanide determination. <i>Analytica Chimica Acta</i> , 2004 , 522, 1-8	6.6	155
390	Biospeciation of antidiabetic VO(IV) complexes. <i>Coordination Chemistry Reviews</i> , 2008 , 252, 1153-1162	23.2	148
389	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
388	Trace element speciation by ICP-MS in large biomolecules and its potential for proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 236-47	4.4	133
387	Organised surfactant assemblies in analytical atomic spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1999 , 54, 251-287	3.1	125
386	Trace element analytical speciation in biological systems: importance, challenges and trends. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1998 , 53, 197-211	3.1	118
385	Elemental mass spectrometry for quantitative proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 3-16	4.4	115
384	Aluminum-induced degeneration of astrocytes occurs via apoptosis and results in neuronal death. <i>Brain Research</i> , 1999 , 835, 125-36	3.7	109
383	Facile chemical deoxygenation of micellar solutions for room temperature phosphorescence. <i>Analytical Chemistry</i> , 1986 , 58, 1436-1440	7.8	109
382	The chemical speciation of aluminium in human serum. <i>Coordination Chemistry Reviews</i> , 2002 , 228, 373-383	3.2	101
381	Biospeciation of various antidiabetic V(IV)O compounds in serum. <i>Dalton Transactions</i> , 2009 , 2428-37	4.3	100
380	Bioanalytics and biolabeling with semiconductor nanoparticles (quantum dots). <i>Journal of Materials Chemistry</i> , 2007 , 17, 1343-1346		99
379	Glow-discharge spectrometry for direct analysis of thin and ultra-thin solid films. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 11-18	14.6	99

378	Laser ablation ICP-MS for quantitative biomedical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 2113-25	4.4	98
377	Nanoparticles as fluorescent labels for optical imaging and sensing in genomics and proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 29-42	4.4	95
376	Multielemental speciation analysis of organometallic compounds of mercury, lead and tin in natural water samples by headspace-solid phase microextraction followed by gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2004 , 1034, 191-7	4.5	88
375	Sample handling strategies for the determination of persistent trace organic contaminants from biota samples. <i>Analytica Chimica Acta</i> , 2007 , 590, 1-16	6.6	87
374	Strategies to study human serum transferrin isoforms using integrated liquid chromatography ICPMS, MALDI-TOF, and ESI-Q-TOF detection: application to chronic alcohol abuse. <i>Analytical Chemistry</i> , 2005 , 77, 5615-21	7.8	87
373	Fluorescent conjugated polymers for chemical and biochemical sensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1513-1525	14.6	86
372	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	3.7	85
371	The potential of double focusing-ICP-MS for studying elemental distribution patterns in whole milk, skimmed milk and milk whey of different milks. <i>Analytica Chimica Acta</i> , 2001 , 442, 191-200	6.6	84
370	Accurate determination of human serum transferrin isoforms: Exploring metal-specific isotope dilution analysis as a quantitative proteomic tool. <i>Analytical Chemistry</i> , 2006 , 78, 8218-26	7.8	80
369	ICP-MS for specific detection in capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , 2005 , 24, 28-36	14.6	80
368	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
367	Evaluation of different sample extraction strategies for selenium determination in selenium-enriched plants (<i>Allium sativum</i> and <i>Brassica juncea</i>) and Se speciation by HPLC-ICP-MS. <i>Talanta</i> , 2006 , 68, 1287-93	6.2	79
366	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
365	Mn-doped ZnS quantum dots for the determination of acetone by phosphorescence attenuation. <i>Analytica Chimica Acta</i> , 2012 , 712, 120-6	6.6	77
364	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	3.7	77
363	Standardization approaches in absolute quantitative proteomics with mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2018 , 37, 715-737	11	75
362	A molecularly imprinted polymer for carbaryl determination in water. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 798-804	8.5	69
361	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, 2583-94	4.4	69

360	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
359	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
358	Direct coupling of high-performance liquid chromatography to microwave-induced plasma atomic emission spectrometry via volatile-species generation and its application to mercury and arsenic speciation. <i>Journal of Analytical Atomic Spectrometry</i> , 1995 , 10, 1019-1025	3.7	64
357	Room temperature phosphorescence optosensing of benzo[a]pyrene in water using halogenated molecularly imprinted polymers. <i>Analyst, The</i> , 2007 , 132, 218-23	5	62
356	Field sampling, preconcentration and determination of mercury species in river waters. <i>Analytica Chimica Acta</i> , 2000 , 419, 137-144	6.6	62
355	Asymmetrical flow field-flow fractionation with multi-angle light scattering detection for the analysis of structured nanoparticles. <i>Journal of Chromatography A</i> , 2009 , 1216, 9106-12	4.5	61
354	Critical comparison of automated purge and trap and solid-phase microextraction for routine determination of volatile organic compounds in drinking waters by GC-MS. <i>Talanta</i> , 2008 , 74, 1455-62	6.2	61
353	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
352	Enantiomeric separation of organophosphorus pesticides by capillary electrophoresis: Application to the determination of malathion in water samples after preconcentration by off-line solid-phase extraction. <i>Analytica Chimica Acta</i> , 2005 , 543, 77-83	6.6	60
351	Influence of Mn^{2+} concentration on Mn^{2+} -doped ZnS quantum dot synthesis: evaluation of the structural and photoluminescent properties. <i>Nanoscale</i> , 2013 , 5, 9156-61	7.7	57
350	Mercury speciation analysis in sea water by solid phase microextraction-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
349	Development of a quantum dot-based fluorescent immunoassay for progesterone determination in bovine milk. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4753-9	11.8	55
348	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
347	Aluminium and silicon speciation in human serum by ion-exchange high-performance liquid chromatography-electrothermal atomic absorption spectrometry and gel electrophoresis. <i>Analyst, The</i> , 1995 , 120, 809-15	5	54
346	Protein labelling with mercury tags: fundamental studies on ovalbumin derivatised with p-hydroxymercuribenzoic acid (pHMB). <i>Journal of Analytical Atomic Spectrometry</i> , 2008 , 23, 1359	3.7	53
345	Comparison of different derivatization approaches for mercury speciation in biological tissues by gas chromatography/inductively coupled plasma mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2000 , 35, 639-46	2.2	53
344	An alternative GC-ICP-MS interface design for trace element speciation. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 1317-1322	3.7	53
343	Metal chelate fluorescence enhancement in micellar media: mechanisms of surfactant action. <i>Analyst, The</i> , 1987 , 112, 493	5	53

342	Inorganic mass spectrometry as a tool for characterisation at the nanoscale. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 15-29	4.4	52
341	Direct comparison of capillary electrophoresis and capillary liquid chromatography hyphenated to collision-cell inductively coupled plasma mass spectrometry for the investigation of Cd-, Cu- and Zn-containing metalloproteins. <i>Journal of Chromatography A</i> , 2006 , 1114, 138-44	4.5	52
340	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
339	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
338	Multi-elemental trace analysis of human serum by double-focusing ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 193-198	3.7	51
337	Solid-phase microextraction as a clean-up and preconcentration procedure for organochlorine pesticides determination in fish tissue by gas chromatography with electron capture detection. <i>Journal of Chromatography A</i> , 2003 , 1017, 35-44	4.5	50
336	Gold internal standard correction for elemental imaging of soft tissue sections by LA-ICP-MS: element distribution in eye microstructures. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 3091-6	4.4	49
335	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	3.7	49
334	Reference values for trace and ultratrace elements in human serum determined by double-focusing ICP-MS. <i>Biological Trace Element Research</i> , 2001 , 82, 259-72	4.5	48
333	Micelle-stabilized room-temperature liquid phosphorimetry of metal chelates and its application to niobium determination. <i>Analytical Chemistry</i> , 1987 , 59, 774-778	7.8	48
332	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
331	Determination of lead and mercury in sea water by preconcentration in a flow injection system followed by atomic absorption spectrometry detection. <i>Talanta</i> , 2001 , 55, 1071-8	6.2	47
330	Molecularly imprinted polymers based on iodinated monomers for selective room-temperature phosphorescence optosensing of fluoranthene in water. <i>Analytical Chemistry</i> , 2005 , 77, 7005-11	7.8	46
329	Speciation studies of cis-platin adducts with DNA nucleotides via elemental specific detection (P and Pt) using liquid chromatography-inductively coupled plasma-mass spectrometry and structural characterization by electrospray mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 861-868	3.7	46
328	Indirect determination of trace amounts of fluoride in natural waters by ion chromatography: a comparison of on-line post-column fluorimetry and ICP-MS detectors. <i>Analyst, The</i> , 1999 , 124, 27-31	5	46
327	Generation of volatile cadmium species with sodium tetrahydroborate from organized media: application to cadmium determination by inductively coupled plasma atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1993 , 8, 847	3.7	46
326	On-line preconcentration of inorganic mercury and methylmercury in sea-water by sorbent-extraction and total mercury determination by cold vapour atomic absorption spectrometry. <i>Talanta</i> , 1994 , 41, 1833-9	6.2	46
325	Metal chelate fluorescence enhancement in micellar media and its applications to niobium and tantalum ultratrace determinations. <i>Analytical Chemistry</i> , 1985 , 57, 1681-1687	7.8	46

324	Conjugated polymer microspheres for "turn-off"/"turn-on" fluorescence optosensing of inorganic ions in aqueous media. <i>Analytical Chemistry</i> , 2011 , 83, 2712-8	7.8	44
323	In vivo detection of DNA adducts induced by cisplatin using capillary HPLC-ICP-MS and their correlation with genotoxic damage in <i>Drosophila melanogaster</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 37-44	4.4	44
322	Simple detector for oral malodour based on spectrofluorimetric measurements of hydrogen sulphide in mouth air. <i>Analytica Chimica Acta</i> , 1999 , 398, 23-31	6.6	44
321	Speciation of inorganic mercury(II) and methylmercury by vesicle-mediated high-performance liquid chromatography coupled to cold vapour atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1994 , 9, 1279-1284	3.7	43
320	Elemental and molecular detection for Quantum Dots-based immunoassays: a critical appraisal. <i>Biosensors and Bioelectronics</i> , 2012 , 33, 165-71	11.8	42
319	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
318	Single and multiple spike procedures for the determination of butyltin compounds in sediments using isotope dilution GC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 1076	3.7	41
317	Investigations of the effect of hydrogen, nitrogen or oxygen on the in-depth profile analysis by radiofrequency argon glow discharge-optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 151-156	3.7	41
316	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
315	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
314	Functionalized gold nanoclusters as fluorescent labels for immunoassays: Application to human serum immunoglobulin E determination. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 1055-61	11.8	40
313	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, 1001-9	4.4	40
312	Quantitative bioimaging of trace elements in the human lens by LA-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 2343-8	4.4	39
311	Quantitative selenium speciation in cod muscle by isotope dilution ICP-MS with a reaction cell: comparison of different reported extraction procedures. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 644-648	3.7	39
310	Mass spectrometry for the characterisation of nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 5637-43	4.4	38
309	Stable isotope labelling and FPLC-ICP-SFMS for the accurate determination of clinical iron status parameters in human serum. <i>Analyst, The</i> , 2008 , 133, 379-84	5	38
308	Solid surface photoluminescence and flow analysis: a happy marriage. <i>Analytica Chimica Acta</i> , 1993 , 283, 367-378	6.6	38
307	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

306	A quantum dot-based immunoassay for screening of tetracyclines in bovine muscle. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 1733-40	5.7	37
305	Quantum dot-based array for sensitive detection of Escherichia coli. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 2755-62	4.4	37
304	Present and future of glow discharge Time of flight mass spectrometry in analytical chemistry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011 , 66, 399-412	3.1	37
303	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
302	Species-specific isotope dilution analysis and isotope pattern deconvolution for butyltin compounds metabolism investigations. <i>Analytical Chemistry</i> , 2005 , 77, 7724-34	7.8	37
301	The influence of hydrogen, nitrogen or oxygen additions to radiofrequency argon glow discharges for optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 1549-1555	3.7	37
300	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
299	A comparison of different derivatisation approaches for the determination of selenomethionine by GC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 1217-1222	3.7	37
298	On-line focused microwave digestion-hydride generation of inorganic and organic selenium: Total determination and inorganic selenium speciation by atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1996 , 51, 1849-1857	3.1	37
297	Heteroatom(isotope)-tagged proteomics via ICP-MS: screening and quantification of proteins and their post-translational modifications. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 885-94	4.4	36
296	An attempt to differentiate HPLC-ICP-MS selenium speciation in natural and selenised Agaricus mushrooms using different species extraction procedures. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 902-7	4.4	36
295	Metal speciation analysis in eel (<i>Anguilla anguilla</i>) metallothioneins by anionic exchange-FPLC-isotope dilution-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 1357-1364	3.7	35
294	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
293	Evaluation of Some Immobilized Room-Temperature Phosphorescent Metal Chelates as Sensing Materials for Oxygen. <i>Analytical Chemistry</i> , 1994 , 66, 836-840	7.8	35
292	Room temperature phosphorescence optosensor for tetracyclines. <i>Analytica Chimica Acta</i> , 1993 , 281, 637-644	6.6	35
291	Absolute venomics: Absolute quantification of intact venom proteins through elemental mass spectrometry. <i>Journal of Proteomics</i> , 2017 , 164, 33-42	3.9	34
290	Speciation of metallothionein-like proteins of the mussel <i>Mytilus edulis</i> at basal levels by chromatographic separations coupled to quadrupole and double-focusing magnetic sector ICPMS. <i>Analytical Chemistry</i> , 2000 , 72, 5874-80	7.8	34
289	One-step aqueous synthesis of fluorescent copper nanoclusters by direct metal reduction. <i>Nanotechnology</i> , 2013 , 24, 495601	3.4	33

288	Absolute quantification of human serum transferrin by species-specific isotope dilution laser ablation ICP-MS. <i>Analytical Chemistry</i> , 2011 , 83, 5353-60	7.8	33
287	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
286	Dual emission probe for luminescence oxygen sensing: a critical comparison between intensity, lifetime and ratiometric measurements. <i>Talanta</i> , 2005 , 66, 611-8	6.2	33
285	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, 767-772	3.7	33
284	Metal distribution patterns in the mussel <i>Mytilus edulis</i> cytosols using size-exclusion chromatography and double focusing ICP-MS detection. <i>Analyst, The</i> , 2000 , 125, 2223-9	5	33
283	Radiofrequency glow-discharge devices for direct solid analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 379, 17-29	4.4	32
282	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
281	Qualitative and quantitative speciation analysis of water soluble selenium in three edible wild mushrooms species by liquid chromatography using post-column isotope dilution ICPMS. <i>Analytica Chimica Acta</i> , 2005 , 538, 99-105	6.6	32
280	Atomic spectrometric methods (atomic absorption and inductively coupled plasma atomic emission) for the determination of aluminium at the parts per billion level in biological fluids. <i>Journal of Analytical Atomic Spectrometry</i> , 1987 , 2, 177	3.7	32
279	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
278	Study of phytochelatins and other related thiols as complexing biomolecules of As and Cd in wild type and genetically modified <i>Brassica juncea</i> plants. <i>Journal of Mass Spectrometry</i> , 2006 , 41, 323-31	2.2	31
277	The use of enriched ¹¹¹ Cd as tracer to study de novo cadmium accumulation and quantitative speciation in <i>Anguilla anguilla</i> tissues. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 270	3.7	31
276	HPLC-ICP-MS and ESI-Q-TOF analysis of biomolecules induced in <i>Brassica juncea</i> during arsenic accumulation. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 153-158	3.7	31
275	Comparison of metal pre-concentration on immobilized Kelex-100 and quadruple inductively coupled plasma mass spectrometric detection with direct double focusing inductively coupled plasma mass spectrometric measurements for ultratrace multi-element determinations in sea water. <i>Analytica Chimica Acta</i> , 2001 , 429, 227-235	6.6	31
274	Multielemental trace analysis of biological materials using double focusing inductively coupled plasma mass spectrometry detection. <i>Analytica Chimica Acta</i> , 1999 , 400, 307-320	6.6	31
273	Metallothioneins (MTs) in the human eye: a perspective article on the zinc-MT redox cycle. <i>Metallomics</i> , 2014 , 6, 201-8	4.5	30
272	Glow discharge atomic emission spectrometry as a detector in gas chromatography for mercury speciation. <i>Journal of Analytical Atomic Spectrometry</i> , 1998 , 13, 905-909	3.7	30
271	Simultaneous determination of mono-, di- and tributyltin in environmental samples using isotope dilution gas chromatography mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2004 , 39, 485-94	2.2	30

270	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
269	Solid-surface room-temperature phosphorescence optosensing in continuous flow systems: an approach for ultratrace metal ion determination. <i>Analytical Chemistry</i> , 1991 , 63, 1759-1763	7.8	30
268	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
267	Design and evaluation of a new Peltier-cooled laser ablation cell with on-sample temperature control. <i>Analytica Chimica Acta</i> , 2014 , 809, 88-96	6.6	29
266	Quantitative protein phosphorylation analysis: the role of ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 1223	3.7	29
265	Isotope dilution analysis mass spectrometry for the routine measurement of butyltin compounds in marine environmental and biological samples. <i>Microchemical Journal</i> , 2007 , 85, 115-121	4.8	29
264	Critical comparison between quadrupole and time-of-flight inductively coupled plasma mass spectrometers for isotope ratio measurements in elemental speciation. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 950-957	3.7	29
263	Vesicle-mediated high-performance liquid chromatography coupled to hydride generation inductively coupled plasma atomic emission spectrometry for speciation of toxicologically important arsenic species. <i>Journal of Analytical Atomic Spectrometry</i> , 1993 , 8, 815-820	3.7	29
262	Sol-gels doped with polymer-coated ZnS/CdSe quantum dots for the detection of organic vapors. <i>Sensors and Actuators B: Chemical</i> , 2010 , 144, 198-202	8.5	28
261	Comparison of fluorimetric and inductively coupled plasma mass spectrometry detection systems for the determination of aluminium species in waters by high-performance liquid chromatography. <i>Analyst, The</i> , 1998 , 123, 699-703	5	28
260	Isotope dilution GC-MS routine method for the determination of butyltin compounds in water. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 908-14	4.4	28
259	Flow injection analysis with inductively coupled plasma time-of-flight mass spectrometry for the simultaneous determination of elements forming hydrides and its application to urine. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 1357-1362	3.7	28
258	Field sampling technique for the fast reactive aluminium fraction in waters using a flow injection mini-column system with inductively coupled plasma atomic emission spectrometric and inductively coupled plasma mass spectrometric detection. <i>Journal of Analytical Atomic Spectrometry</i> , 1995 , 10, 281-285	3.7	28
257	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
256	Relationships between cisplatin-induced adducts and DNA strand-breaks, mutation and recombination in vivo in somatic cells of <i>Drosophila melanogaster</i> , under different conditions of nucleotide excision repair. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2012 , 741, 81-8	3	27
255	Isotope dilution SPME GC/MS for the determination of methylmercury in tuna fish samples. <i>Journal of Mass Spectrometry</i> , 2006 , 41, 77-83	2.2	27
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