List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Gold nanoparticles: Distribution, bioaccumulation and toxicity. In vitro and in vivo studies. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1-12.	1.7	224
2	The emerging role of ICP-MS in proteomic analysis. Journal of Proteomics, 2009, 72, 989-1005.	1.2	149
3	Speciation of Silver Nanoparticles and Silver(I) by Reversed-Phase Liquid Chromatography Coupled to ICPMS. Analytical Chemistry, 2013, 85, 1316-1321.	3.2	133
4	Elemental mass spectrometry for quantitative proteomics. Analytical and Bioanalytical Chemistry, 2008, 390, 3-16.	1.9	124
5	Quantitative Evaluation of Cisplatin Uptake in Sensitive and Resistant Individual Cells by Single-Cell ICP-MS (SC-ICP-MS). Analytical Chemistry, 2017, 89, 11491-11497.	3.2	105
6	Size characterisation of Au nanoparticles by ICP-MS coupling techniques. Journal of Analytical Atomic Spectrometry, 2006, 21, 431.	1.6	93
7	ICP-MS for absolute quantification of proteins for heteroatom-tagged, targeted proteomics. TrAC - Trends in Analytical Chemistry, 2012, 40, 52-63.	5.8	80
8	High spatial resolution trace element analysis by LA-ICP-MS using a novel ablation cell for multiple or large samples. International Journal of Mass Spectrometry, 2011, 307, 39-45.	0.7	73
9	Evaluation of the biological effect of Ti generated debris from metal implants: ions and nanoparticles. Metallomics, 2014, 6, 1702-1708.	1.0	72
10	ElaC Encodes a Novel Binuclear Zinc Phosphodiesterase. Journal of Biological Chemistry, 2002, 277, 29078-29085.	1.6	70
11	Elemental tagging in inorganic mass spectrometric bioanalysis. Analytical and Bioanalytical Chemistry, 2006, 386, 7-11.	1.9	66
12	Validation of the determination of copper and zinc in blood plasma and urine by ICP MS with cross-flow and direct injection nebulization. Talanta, 1997, 44, 1389-1396.	2.9	57
13	Complementary mass spectrometric techniques for the quantification of the protein corona: a case study on gold nanoparticles and human serum proteins. Nanoscale, 2015, 7, 14324-14331.	2.8	57
14	Application of isotope dilution ICP–MS techniques to quantitative proteomics. Analytical and Bioanalytical Chemistry, 2010, 397, 3495-3502.	1.9	56
15	Analysis of gold nanoparticles using ICP-MS-based hyphenated and complementary ESI-MS techniques. International Journal of Mass Spectrometry, 2011, 307, 92-98.	0.7	56
16	Single cell ICP-MS using on line sample introduction systems: Current developments and remaining challenges. TrAC - Trends in Analytical Chemistry, 2020, 132, 116042.	5.8	55
17	Protein labelling with mercury tags: fundamental studies on ovalbumin derivatised with p-hydroxymercuribenzoic acid (pHMB). Journal of Analytical Atomic Spectrometry, 2008, 23, 1359.	1.6	53
18	Single particle analysis of TiO2 in candy products using triple quadrupole ICP-MS. Talanta, 2018, 180, 309-315.	2.9	53

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19	μLC coupled to ICP–SFMS with post-column isotope dilution analysis of sulfur for absolute protein quantification. Analytical and Bioanalytical Chemistry, 2008, 391, 537-543.	1.9	47
20	Absolute and Relative Protein Quantification with the Use of Isotopically Labeled <i>p</i> -Hydroxymercuribenzoic Acid and Complementary MALDI-MS and ICPMS Detection. Analytical Chemistry, 2009, 81, 9172-9177.	3.2	44
21	Separation and quantification of silver nanoparticles and silver ions using reversed phase high performance liquid chromatography coupled to inductively coupled plasma mass spectrometry in combination with isotope dilution analysis. Journal of Chromatography A, 2016, 1468, 102-108.	1.8	43
22	Addressing the presence of biogenic selenium nanoparticles in yeast cells: analytical strategies based on ICP-TQ-MS. Analyst, The, 2020, 145, 1457-1465.	1.7	43
23	Determination of the MRI contrast agent Gd-DTPA by SEC?ICP?MS. Analytical and Bioanalytical Chemistry, 2004, 379, 1050-4.	1.9	42
24	Combined single cell and single particle ICP-TQ-MS analysis to quantitatively evaluate the uptake and biotransformation of tellurium nanoparticles in bacteria. Analytica Chimica Acta, 2020, 1128, 116-128.	2.6	40
25	Stable isotope labelling and FPLC–ICP-SFMS for the accurate determination of clinical iron status parameters in human serum. Analyst, The, 2008, 133, 379.	1.7	39
26	Quantitative Analysis of Transferrin Receptor 1 (TfR1) in Individual Breast Cancer Cells by Means of Labeled Antibodies and Elemental (ICP-MS) Detection. Analytical Chemistry, 2019, 91, 15532-15538.	3.2	38
27	Microwave-induced plasma–optical emission spectrometry – fundamental aspects and applications in metal speciation analysis. TrAC - Trends in Analytical Chemistry, 2000, 19, 138-156.	5.8	36
28	On-Line Coupling of Gel Electrophoresis and Inductively Coupled Plasma-Sector Field-Mass Spectrometry for the Determination of dsDNA Fragments. Analytical Chemistry, 2005, 77, 5072-5075.	3.2	36
29	<i>In vitro</i> and <i>in situ</i> experiments to evaluate the biodistribution and cellular toxicity of ultrasmall iron oxide nanoparticles potentially used as oral iron supplements. Nanotoxicology, 2020, 14, 388-403.	1.6	36
30	Ultrasmall iron oxide nanoparticles cisplatin (IV) prodrug nanoconjugate: ICP-MS based strategies to evaluate the formation and drug delivery capabilities in single cells. Analytica Chimica Acta, 2021, 1159, 338356.	2.6	33
31	On-line removal of mass interferences in palladium determination by ICP-MS using modified capillaries coupled to micro-flow nebulizers. Journal of Analytical Atomic Spectrometry, 2001, 16, 481-486.	1.6	31
32	Determination of phytic acid and its degradation products by ion-pair chromatography (IPC) coupled to inductively coupled plasma-sector field-mass spectrometry (ICP-SF-MS). Journal of Analytical Atomic Spectrometry, 2004, 19, 1330.	1.6	30
33	Plant protein phosphorylation monitored by capillary liquid chromatography–element mass spectrometry. Biochemical and Biophysical Research Communications, 2007, 355, 89-96.	1.0	29
34	Combination of single particle ICP-QMS and isotope dilution analysis for the determination of size, particle number and number size distribution of silver nanoparticles. Journal of Analytical Atomic Spectrometry, 2016, 31, 2045-2052.	1.6	29
35	Fragmentation of Proteins in the Corona of Gold Nanoparticles As Observed in Live Cell Surface-Enhanced Raman Scattering. Analytical Chemistry, 2020, 92, 8553-8560.	3.2	29
36	Speciation of gold nanoparticles and low-molecular gold species in Wistar rat tissues by HPLC coupled to ICP-MS. Journal of Analytical Atomic Spectrometry, 2017, 32, 193-199.	1.6	28

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37	Lead speciation in rainwater samples by modified fused silica capillaries coupled to a direct injection nebulizer (DIN) for sample introduction in ICP-MS. Journal of Analytical Atomic Spectrometry, 2001, 16, 1028-1034.	1.6	27
38	Gel Electrophoresis Coupled to Inductively Coupled Plasmaâ~'Mass Spectrometry Using Species-Specific Isotope Dilution for Iodide and Iodate Determination in Aerosols. Analytical Chemistry, 2007, 79, 1714-1719.	3.2	27
39	Synthesis, purification and mass spectrometric characterisation of a fluorescent Au ₉ @BSA nanocluster and its enzymatic digestion by trypsin. Nanoscale, 2014, 6, 716-721.	2.8	27
40	A novel approach for analysis of oligonucleotide–cisplatin interactions by continuous elution gel electrophoresis coupled to isotope dilution inductively coupled plasma mass spectrometry and matrixâ€assisted laser desorption/ionization mass spectrometry. Electrophoresis, 2008, 29, 1451-1459.	1.3	26
41	Application of SEC-ICP-MS for comparative analyses of metal-containing species in cancerous and healthy human thyroid samples. Analytical and Bioanalytical Chemistry, 2004, 380, 198-203.	1.9	25
42	DNA quantification approach by GE-ICP-SFMS and complementary total phosphorus determination by ICP-SFMS. Journal of Analytical Atomic Spectrometry, 2006, 21, 1271-1276.	1.6	25
43	Metallomics investigations on potential binding partners of methylmercury in tuna fish muscle tissue using complementary mass spectrometric techniques. Metallomics, 2012, 4, 807.	1.0	24
44	Systematic studies on the determination of Hg-labelled proteins using laser ablation-ICPMS and isotope dilution analysis. Analytical and Bioanalytical Chemistry, 2011, 401, 2691-2698.	1.9	23
45	Biosynthesis of Cd-bound phytochelatins by Phaeodactylum tricornutum and their speciation by size-exclusion chromatography and ion-pair chromatography coupled to ICP–MS. Analytical and Bioanalytical Chemistry, 2005, 383, 398-403.	1.9	21
46	Development of a new method for the separation of vanadium species and chloride interference removal using modified silica capillaries-DIN-ICP-MS. Microchemical Journal, 2004, 76, 161-171.	2.3	20
47	Ultra-Small Iron Nanoparticles Target Mitochondria Inducing Autophagy, Acting on Mitochondrial DNA and Reducing Respiration. Pharmaceutics, 2021, 13, 90.	2.0	20
48	Determination of organic ionic lead and mercury species with high-performance liquid chromatography using sulphur reagents. Journal of Chromatography A, 1993, 654, 177-182.	1.8	19
49	Initial results on the coupling of sedimentation field-flow fractionation (SdFFF) to inductively coupled plasma-tandem mass spectrometry (ICP-MS/MS) for the detection and characterization of TiO ₂ nanoparticles. Journal of Analytical Atomic Spectrometry, 2016, 31, 1549-1555.	1.6	19
50	Complementary techniques (spICP-MS, TEM, and HPLC-ICP-MS) reveal the degradation of 40 nm citrate-stabilized Au nanoparticles in rat liver after intraperitoneal injection. Journal of Trace Elements in Medicine and Biology, 2019, 55, 1-5.	1.5	19
51	Determination of phosphorylation degrees in caseins by on-line gel electrophoresis coupled to ICP-SFMS. Journal of Analytical Atomic Spectrometry, 2007, 22, 1296.	1.6	18
52	The behaviour of different organometallic compounds in the presence of inorganic mercury(II): transalkylation of mercury species and their analysis by the GC-MIP-PED system. Applied Organometallic Chemistry, 1997, 11, 721-725.	1.7	17
53	Feasibility studies on the suppression of HfO+ mass interferences on platinum determination by inductively coupled plasma mass spectrometry (ICP-MS) by modification of the sample introduction system. Journal of Analytical Atomic Spectrometry, 2000, 15, 507-512.	1.6	17
54	Metalloproteomics: a challenge for analytical chemists. Analytical and Bioanalytical Chemistry, 2005, 383, 370-371.	1.9	17

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55	Quantitative assessment of the metabolic products of iron oxide nanoparticles to be used as iron supplements in cell cultures. Analytica Chimica Acta, 2018, 1039, 24-30.	2.6	17
56	Relating the composition and interface interactions in the hard corona of gold nanoparticles to the induced response mechanisms in living cells. Nanoscale, 2020, 12, 17450-17461.	2.8	17
57	Direct μ-flow injection isotope dilution ICP-MS for the determination of heavy metals in oil samples. Analytical and Bioanalytical Chemistry, 2012, 402, 269-275.	1.9	16
58	Simultaneous determination of organic ionic lead and mercury species using HPLC. Fresenius' Journal of Analytical Chemistry, 1994, 350, 30-33.	1.5	15
59	Rapid separation of elemental species by multicapillary GC. Analytical and Bioanalytical Chemistry, 2002, 373, 461-465.	1.9	15
60	Sensitive detection of ionic organolead compounds by coupling hydride generation (HG) with transversely heated graphite atomizer-atomic absorption spectrometry (THGA-AAS). Fresenius' Journal of Analytical Chemistry, 1994, 349, 738-742.	1.5	13
61	Modification of capillaries coupled to micro-flow nebulizers: a new strategy for on-line interference removal in inductively coupled plasma mass spectrometry. Journal of Mass Spectrometry, 2000, 35, 891-896.	0.7	13
62	Analysis of hepcidin, a key peptide for Fe homeostasis, viasulfur detection by capillary liquid chromatography-inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2011, 26, 334-340.	1.6	13
63	Enhanced Detection of DNA Sequences Using End-Point PCR Amplification and Online Gel Electrophoresis (GE)-ICP-MS: Determination of Gene Copy Number Variations. Analytical Chemistry, 2014, 86, 11028-11032.	3.2	13
64	The Plasma Emission Detector—A Suitable Detector for Speciation and Sum Parameter Analysis. Journal of Analytical Atomic Spectrometry, 1997, 12, 993-996.	1.6	12
65	Initial studies on quantitative DNA induced oxidation by gel electrophoresis (GE)-ICP-MS. Journal of Analytical Atomic Spectrometry, 2011, 26, 195-200.	1.6	12
66	On-line Chloride Interference Removal for Arsenic Determination in Waste Water and Urine by ICP-MS Using a Modified Capillary. International Journal of Environmental Analytical Chemistry, 2002, 82, 795-804.	1.8	11
67	The fate of iron nanoparticles used for treatment of iron deficiency in blood using mass-spectrometry based strategies. Mikrochimica Acta, 2017, 184, 3673-3680.	2.5	11
68	Mass spectrometric approach for the analysis of the hard protein corona of nanoparticles in living cells. Journal of Proteomics, 2020, 212, 103582.	1.2	11
69	GC-MIP-PED as an element-specific system for the determination of organomercury compounds. Applied Organometallic Chemistry, 1995, 9, 541-545.	1.7	10
70	Targeting HER2 protein in individual cells using ICP-MS detection and its potential as prognostic and predictive breast cancer biomarker. Talanta, 2021, 235, 122773.	2.9	10
71	Screening-method for organotins by elimination of the inorganic tin matrix using a coupling of hydride generation (HG) and transversely heated graphite atomizer-atomic absorption spectrometry (THGA-AAS). Fresenius' Journal of Analytical Chemistry, 1997, 359, 239-243.	1.5	9
72	Removal of interfering elements in ICP-QMS for the determination of Pt, Rh, and Pd by chemically modified sample introduction capillaries. Fresenius' Journal of Analytical Chemistry, 2001, 370, 488-491.	1.5	9

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73	Elemental speciation. Analytical and Bioanalytical Chemistry, 2002, 372, 33-34.	1.9	9
74	Determination of specific DNA sequences and their hybridisation processes by elemental labelling followed by SEC-ICP-MS detection. Analyst, The, 2014, 139, 3423.	1.7	8
75	Evaluation of the uptake, storage and cell effects of nano-iron in enterocyte-like cell models. Journal of Trace Elements in Medicine and Biology, 2018, 49, 98-104.	1.5	7
76	Transversely heated graphite atomizer-atomic absorption spectrometry (thga aas) in combination with flow injection analysis system-hydride generation (fias hg) as a reliable screening method for organolead compounds. Applied Organometallic Chemistry, 1994, 8, 615-620.	1.7	6
77	The Use of Stable Isotopic Tracers in Metallomics Studies. Advances in Experimental Medicine and Biology, 2018, 1055, 111-137.	0.8	5
78	Evaluation of nanodebris produced by in vitro degradation of titanium-based dental implants in the presence of bacteria using single particle and single cell inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2021, 36, 2007-2016.	1.6	5
79	Evaluation of copper uptake in individual spores of <i>Streptomyces coelicolor</i> and endogenic nanoparticles formation to modulate the secondary metabolism. Metallomics, 2022, 14, .	1.0	3
80	Elemental and molecular mass spectrometric strategies for probing interactions between DNA and new Ru(<scp>ii</scp>) complexes containing phosphane ligands and either a tris(pyrazol-1-yl)borate or a pyridine bis(oxazoline) ligand. Journal of Analytical Atomic Spectrometry, 2015, 30, 172-179.	1.6	2
81	Determination and speciation of cadmium in microcosms with Bunodosoma caissarum and Perna perna using isotopically enriched 116 Cd. Marine Pollution Bulletin, 2017, 115, 362-368.	2.3	2
82	The use of high performance liquid chromatography—Inductively coupled plasma-mass spectrometry in the analysis of inorganic nanomaterials. Comprehensive Analytical Chemistry, 2021, , 285-301.	0.7	2
83	Labelling of biopolymers: current status and future trends. Analytical and Bioanalytical Chemistry, 2010, 397, 3431-3432.	1.9	1
84	In honor of Professor Klaus G. Heumann. Analytical and Bioanalytical Chemistry, 2016, 408, 7885-7887.	1.9	0