

# Alfredo Sanz-Medel

## List of Publications by Year in descending order

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400  
papers

14,054  
citations

24978

57  
h-index

48187

88  
g-index

415  
all docs

415  
docs citations

415  
times ranked

10007  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.9	10
2	Impact of Holder pasteurization on essential elements from human donor milk: Total contents and protein-binding profiles. <i>Journal of Food Composition and Analysis</i> , 2020, 87, 103395.	1.9	4
3	Total metal content and chemical speciation analysis of iron, copper, zinc and iodine in human breast milk using high-performance liquid chromatography separation and inductively coupled plasma mass spectrometry detection. <i>Food Chemistry</i> , 2020, 326, 126978.	4.2	39
4	Quantitative speciation analysis for the <i>in vivo</i> study of iron metabolism and bioavailability from formula milk fortified with stable isotope enriched iron oxo-hydroxide nanoparticles. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 774-781.	1.6	8
5	MMP-11 as a biomarker for metastatic breast cancer by immunohistochemical-assisted imaging mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 639-646.	1.9	39
6	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.	3.2	11
7	Universal absolute quantification of biomolecules using element mass spectrometry and generic standards. <i>Chemical Communications</i> , 2018, 54, 904-907.	2.2	14
8	Standardization approaches in absolute quantitative proteomics with mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2018, 37, 715-737.	2.8	118
9	Advances in absolute protein quantification and quantitative protein mapping using ICP-MS. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 104, 148-159.	5.8	38
10	<i>In vivo</i> study of the effect of lactoferrin on iron metabolism and bioavailability from different iron chemical species for formula milk fortification. <i>Electrophoresis</i> , 2018, 39, 1702-1713.	1.3	5
11	Quantitative study of zinc and metallothioneins in the human retina and RPE cells by mass spectrometry-based methodologies. <i>Talanta</i> , 2018, 178, 222-230.	2.9	20
12	Protective effect of selenium supplementation following oxidative stress mediated by glucose on retinal pigment epithelium. <i>Metallomics</i> , 2018, 10, 83-92.	1.0	34
13	Phosphorescence (a) Principles and Instrumentation. , 2018, , 284-284.		0
14	Searching for enhanced iron fortification of formula milk via nanoparticles and Isotope Pattern Deconvolution. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 148, 165-171.	1.5	7
15	Quantitative bioimaging of Ca, Fe, Cu and Zn in breast cancer tissues by LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 671-677.	1.6	35
16	Characterization of thin film tandem solar cells by radiofrequency pulsed glow discharge “ Time of flight mass spectrometry. <i>Talanta</i> , 2017, 165, 289-296.	2.9	11
17	Effect of vanadium on calcium homeostasis, osteopontin mRNA expression, and bone microarchitecture in diabetic rats. <i>Metallomics</i> , 2017, 9, 258-267.	1.0	12
18	Protein-species quantitative venomomics: looking through a crystal ball. <i>Journal of Venomous Animals and Toxins Including Tropical Diseases</i> , 2017, 23, 27.	0.8	26

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19	Absolute venomomics: Absolute quantification of intact venom proteins through elemental mass spectrometry. <i>Journal of Proteomics</i> , 2017, 164, 33-42.	1.2	42
20	Quantitative distribution of Zn, Fe and Cu in the human lens and study of the Zn-metallothionein redox system in cultured lens epithelial cells by elemental MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1746-1756.	1.6	13
21	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.	1.6	32
22	Volatile organic compound analysis by pulsed glow discharge time of flight mass spectrometry as a structural elucidation tool. <i>Journal of Mass Spectrometry</i> , 2017, 52, 561-570.	0.7	4
23	Elemental and isotopic analysis of oral squamous cell carcinoma tissues using sector-field and multi-collector ICP-mass spectrometry. <i>Talanta</i> , 2017, 165, 92-97.	2.9	20
24	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.	1.8	8
25	Sensitive prostate specific antigen quantification using dihydrolipoic acid surface-functionalized phosphorescent quantum dots. <i>Analytica Chimica Acta</i> , 2017, 987, 118-126.	2.6	17
26	The fate of iron nanoparticles used for treatment of iron deficiency in blood using mass-spectrometry based strategies. <i>Mikrochimica Acta</i> , 2017, 184, 3673-3680.	2.5	11
27	Iron bioavailability from supplemented formula milk: effect of lactoferrin addition. <i>European Journal of Nutrition</i> , 2017, 56, 2611-2620.	1.8	12
28	Selenium levels and Glutathione peroxidase activity in the plasma of patients with type II diabetes mellitus. <i>Journal of Trace Elements in Medicine and Biology</i> , 2016, 37, 44-49.	1.5	43
29	Evaluation of the temporal profiles and the analytical features of a laser ablation Pulsed glow discharge coupling for optical emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 121, 47-54.	1.5	8
30	Highly sensitive nanoparticle-based immunoassays with elemental detection: Application to Prostate-Specific Antigen quantification. <i>Biosensors and Bioelectronics</i> , 2016, 85, 128-134.	5.3	36
31	Elemental Mass Spectrometry for Absolute Intact Protein Quantification without Protein-Specific Standards: Application to Snake Venomomics. <i>Analytical Chemistry</i> , 2016, 88, 9699-9706.	3.2	47
32	Plasma regime transition in a needle-FAPA desorption/ionization source. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2213-2222.	1.6	2
33	HPLC-ICP-MS for simultaneous quantification of the total and active form of the thioredoxin reductase enzyme in human serum using auranofin as an activity-based probe. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1895-1903.	1.6	4
34	Heteroatom-tagged quantification of proteins via ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 5393-5395.	1.9	16
35	In honor of Professor Klaus G. Heumann. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7885-7887.	1.9	0
36	Improving the analytical performance of a phosphorescent nanosensor by optimizing a ratiometric technique. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 574-581.	4.0	2

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37	Mass spectrometry for the characterization and quantification of engineered inorganic nanoparticles. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 84, 139-148.	5.8	46
38	A flowing atmospheric pressure afterglow as an ion source coupled to a differential mobility analyzer for volatile organic compound detection. <i>Analyst, The</i> , 2016, 141, 3437-3443.	1.7	5
39	Precise determination of the nanoparticle concentration and ligand density of engineered water-soluble HgSe fluorescent nanoparticles. <i>RSC Advances</i> , 2016, 6, 19964-19972.	1.7	19
40	Capabilities of radiofrequency pulsed glow discharge-time of flight mass spectrometry for molecular screening in polymeric materials: positive versus negative ion mode. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 212-219.	1.6	7
41	Functionalized gold nanoclusters as fluorescent labels for immunoassays: Application to human serum immunoglobulin E determination. <i>Biosensors and Bioelectronics</i> , 2016, 77, 1055-1061.	5.3	46
42	Total zinc quantification by inductively coupled plasma-mass spectrometry and its speciation by size exclusion chromatography—inductively coupled plasma-mass spectrometry in human milk and commercial formulas: Importance in infant nutrition. <i>Journal of Chromatography A</i> , 2016, 1428, 246-254.	1.8	28
43	Determination of low $B/C$ ratios in carbonates using ICP-QQQ. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2005-2014.	1.0	13
44	Analytical potential of a laser ablation—glow discharge—optical emission spectrometry system for the analysis of conducting and insulating materials. <i>Analytica Chimica Acta</i> , 2015, 877, 33-40.	2.6	11
45	Voltammetric determination of size and particle concentration of Cd-based quantum dots. <i>Electrochimica Acta</i> , 2015, 166, 100-106.	2.6	19
46	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.	1.8	21
47	Quantitative selenium speciation by HPLC-ICP-MS(IDA) and simultaneous activity measurements in human vitreous humor. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2405-2413.	1.9	9
48	Depth Profile Analysis of Amorphous Silicon Thin Film Solar Cells by Pulsed Radiofrequency Glow Discharge Time of Flight Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 305-314.	1.2	8
49	Pulsed radiofrequency glow discharge time of flight mass spectrometry for coated glass analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1108-1116.	1.6	14
50	Elemental and molecular mass spectrometry for integrated selenosugar speciation in liver and kidney tissues of maternal feeding and supplemented rats. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 267-276.	1.6	9
51	Sensitive targeted multiple protein quantification based on elemental detection of Quantum Dots. <i>Analytica Chimica Acta</i> , 2015, 879, 77-84.	2.6	25
52	Aqueous synthesis of near-infrared highly fluorescent platinum nanoclusters. <i>Nanotechnology</i> , 2015, 26, 215601.	1.3	15
53	Determination of reduced homocysteine in human serum by elemental labelling and liquid chromatography with ICP-MS and ESI-MS detection. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7899-7906.	1.9	20
54	Changes in Iron Metabolism and Oxidative Status in STZ-Induced Diabetic Rats Treated with Bis(maltolato) Oxovanadium (IV) as an Antidiabetic Agent. <i>Scientific World Journal, The</i> , 2014, 2014, 1-6.	0.8	12

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55	Effect of internal and external conditions on ionization processes in the FAPA ambient desorption/ionization source. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 7511-7521.	1.9	20
56	Mercury speciation in Cuban commercial edible fish by HPLC-ICP-MS using the double spike isotope dilution analysis strategy. <i>International Journal of Environmental Analytical Chemistry</i> , 2014, 94, 36-47.	1.8	8
57	Photoluminescent Nanoparticles for Optical Imaging in Biology and Medicine. <i>Frontiers in Nanobiomedical Research</i> , 2014, , 307-344.	0.1	0
58	A path towards a better characterisation of silicon thin-film solar cells: depth profile analysis by pulsed radiofrequency glow discharge optical emission spectrometry. <i>Progress in Photovoltaics: Research and Applications</i> , 2014, 22, 1246-1255.	4.4	11
59	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.	2.6	36
60	Improving pulsed radiofrequency glow discharge for time-of-flight mass spectrometry simultaneous elemental and molecular analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 7431-7443.	1.9	0
61	Quantitative bioimaging of trace elements in the human lens by LA-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2343-2348.	1.9	50
62	Mass Spectrometry for the Characterization of Gold Nanoparticles. <i>Comprehensive Analytical Chemistry</i> , 2014, 66, 329-356.	0.7	10
63	On-line double isotope dilution laser ablation inductively coupled plasma mass spectrometry for the quantitative analysis of solid materials. <i>Analytica Chimica Acta</i> , 2014, 851, 64-71.	2.6	20
64	A Quantum Dot-Based Immunoassay for Screening of Tetracyclines in Bovine Muscle. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 1733-1740.	2.4	46
65	Exposure to bis(maltolato)oxovanadium(IV) increases levels of hepcidin mRNA and impairs the homeostasis of iron but not that of manganese. <i>Food and Chemical Toxicology</i> , 2014, 73, 113-118.	1.8	14
66	Metallothioneins (MTs) in the human eye: a perspective article on the zinc-MT redox cycle. <i>Metallomics</i> , 2014, 6, 201.	1.0	39
67	Characterization of a new mobility separation tool: HRIMS as differential mobility analyzer. <i>Talanta</i> , 2014, 130, 400-407.	2.9	1
68	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.	2.6	29
69	Nanostructural transformations of silver nanoclusters occurring during their synthesis and after interaction with UV-light. <i>Materials Research Express</i> , 2014, 1, 015039.	0.8	10
70	Vanadium-Binding Protein in Marine Plankton from Tropical South Atlantic Ocean. <i>Journal of the Brazilian Chemical Society</i> , 2014, , .	0.6	3
71	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, 3091-3096.	1.9	53
72	The influence of surface coating on the properties of water-soluble CdSe and CdSe/ZnS quantum dots. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	16

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73	Room temperature phosphorimetric determination of bromate in flour based on energy transfer. <i>Talanta</i> , 2013, 116, 231-236.	2.9	10
74	Mass spectrometry for the characterisation of nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5637-5643.	1.9	47
75	Influence of Mn <sup>2+</sup> concentration on Mn <sup>2+</sup> -doped ZnS quantum dot synthesis: evaluation of the structural and photoluminescent properties. <i>Nanoscale</i> , 2013, 5, 9156.	2.8	62
76	One-step aqueous synthesis of fluorescent copper nanoclusters by direct metal reduction. <i>Nanotechnology</i> , 2013, 24, 495601.	1.3	38
77	Synthesis and characterization of haptens-quantum dots bioconjugates: Application to development of a melamine fluorescent immunoassay. <i>Talanta</i> , 2013, 106, 243-248.	2.9	13
78	Comparison of copper labeling followed by liquid chromatography-inductively coupled plasma mass spectrometry and immunochemical assays for serum hepcidin-25 determination. <i>Analytica Chimica Acta</i> , 2013, 799, 1-7.	2.6	9
79	Isotope dilution mass spectrometry for quantitative elemental analysis of powdered samples by radiofrequency pulsed glow discharge time of flight mass spectrometry. <i>Talanta</i> , 2013, 115, 657-664.	2.9	5
80	Challenging identifications of polymer coatings by radiofrequency pulsed glow discharge-time of flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1054.	1.6	7
81	Critical evaluation of the potential of radiofrequency pulsed glow discharge time-of-flight mass spectrometry for depth-profile analysis of innovative materials. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5655-5662.	1.9	27
82	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, 1873-1879.	3.2	9
83	Radiofrequency pulsed glow discharge-ToFMS depth profiling of a CdTe solar cell: A comparative study versus time of flight secondary ion mass spectrometry. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013, 31, 06F106.	0.9	9
84	An Overview of Atomic Spectrometric Techniques. <i>Metal Ions in Life Sciences</i> , 2013, , 1-51.	1.0	0
85	The Stoichiometric Transition from Zn <sub>6</sub> Cu <sub>1</sub> -Metallothionein to Zn <sub>7</sub> -Metallothionein Underlies the Up-regulation of Metallothionein (MT) Expression. <i>Journal of Biological Chemistry</i> , 2012, 287, 28456-28469.	1.6	26
86	Effect of bis(maltolato)oxovanadium (IV) (BMOV) on selenium nutritional status in diabetic streptozotocin rats. <i>British Journal of Nutrition</i> , 2012, 108, 893-899.	1.2	16
87	Changes in the antioxidant defence and in selenium concentration in tissues of vanadium exposed rats. <i>Metallomics</i> , 2012, 4, 814.	1.0	22
88	RF-pulsed glow discharge time-of-flight mass spectrometry for glass analysis: Investigation of the ion source design. <i>Analytica Chimica Acta</i> , 2012, 756, 30-36.	2.6	11
89	Comparison of different methods for the absolute quantification of harbour seal transferrin glycoforms using HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 440.	1.6	10
90	Influence of the hydrogen contained in amorphous silicon thin films on a pulsed radiofrequency argon glow discharge coupled to time of flight mass spectrometry. Comparison with the addition of hydrogen as discharge gas. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 71-79.	1.6	8

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91	Elemental mass spectrometry for Se-dependent glutathione peroxidase determination in red blood cells as oxidative stress biomarker. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1949.	1.6	9
92	Metallomics investigations on potential binding partners of methylmercury in tuna fish muscle tissue using complementary mass spectrometric techniques. <i>Metallomics</i> , 2012, 4, 807.	1.0	24
93	Mn-doped ZnS quantum dots for the determination of acetone by phosphorescence attenuation. <i>Analytica Chimica Acta</i> , 2012, 712, 120-126.	2.6	81
94	Endogenous and exogenous hydrogen influence on amorphous silicon thin films analysis by pulsed radiofrequency glow discharge optical emission spectrometry. <i>Analytica Chimica Acta</i> , 2012, 714, 1-7.	2.6	9
95	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, 81-88.	0.9	29
96	Nutritional iron supplementation studies based on enriched <sup>57</sup> F, added to milk in rats, and isotope pattern deconvolution-ICP-MS analysis. <i>Electrophoresis</i> , 2012, 33, 2407-2415.	1.3	16
97	ICP-MS for absolute quantification of proteins for heteroatom-tagged, targeted proteomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 40, 52-63.	5.8	80
98	Bidimensional characterization of the emission spectra in a direct current atmospheric pressure glow discharge. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 76, 166-174.	1.5	10
99	Iron content and its speciation in human milk from mothers of preterm and full-term infants at early stages of lactation: A comparison with commercial infant milk formulas. <i>Microchemical Journal</i> , 2012, 105, 108-114.	2.3	20
100	Selected ion storage versus tandem MS/MS for organochlorine pesticides determination in drinking waters with SPME and GC-MS. <i>International Journal of Environmental Analytical Chemistry</i> , 2012, 92, 856-867.	1.8	5
101	Triple Quad ICPMS (ICPQQQ) as a New Tool for Absolute Quantitative Proteomics and Phosphoproteomics. <i>Analytical Chemistry</i> , 2012, 84, 5851-5857.	3.2	153
102	Immobilization of phosphorescent quantum dots in a sol-gel matrix for acetone sensing. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 102-108.	4.0	24
103	Pulsed glow discharge time of flight mass spectrometry for the screening of polymer-based coatings containing brominated flame retardants. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 318-326.	1.6	14
104	Laser ablation ICP-MS for quantitative biomedical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2113-2125.	1.9	113
105	Progress on environmental analysis and bioanalysis in Spain. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 287-288.	1.9	0
106	Elemental and molecular detection for Quantum Dots-based immunoassays: A critical appraisal. <i>Biosensors and Bioelectronics</i> , 2012, 33, 165-171.	5.3	44
107	Reusable phosphorescent probes based on molecularly imprinted polymers for the determination of propranolol in urine. <i>Sensors and Actuators B: Chemical</i> , 2012, 168, 370-375.	4.0	14
108	Direct 1/4-flow injection isotope dilution ICP-MS for the determination of heavy metals in oil samples. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 269-275.	1.9	16

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109	Towards compound-independent calibration for organic compounds using online isotope dilution mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 91-97.	1.9	3
110	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.	2.8	31
111	Plasma-based mass spectrometry for simultaneous acquisition of elemental and molecular information. <i>Analyst</i> , The, 2011, 136, 246-256.	1.7	16
112	P, S and Cl trace detection by laser ablation double-focusing sector field ICP-MS to identify local defects in coated glasses. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1526.	1.6	4
113	Selenium speciation in rat colon tissues. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 100-108.	1.6	2
114	Quantitative depth profiling of boron and arsenic ultra low energy implants by pulsed rf-GD-ToFMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 542-549.	1.6	18
115	Pulsed Radiofrequency Glow Discharge Time-of-Flight Mass Spectrometry for Nanostructured Materials Characterization. <i>Analytical Chemistry</i> , 2011, 83, 329-337.	3.2	25
116	Conjugated Polymer Microspheres for "Turn-Off"/"Turn-On" Fluorescence Optosensing of Inorganic Ions in Aqueous Media. <i>Analytical Chemistry</i> , 2011, 83, 2712-2718.	3.2	45
117	Reduction of Cisplatin-Induced Nephrotoxicity in Vivo by Selenomethionine: The Effect on Cisplatin-DNA Adducts. <i>Chemical Research in Toxicology</i> , 2011, 24, 896-904.	1.7	27
118	Initial studies on quantitative DNA induced oxidation by gel electrophoresis (GE)-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 195-200.	1.6	12
119	Absolute Quantification of Human Serum Transferrin by Species-Specific Isotope Dilution Laser Ablation ICP-MS. <i>Analytical Chemistry</i> , 2011, 83, 5353-5360.	3.2	38
120	Analytical performance of pulsed radiofrequency glow discharge optical emission spectrometry for bulk and in-depth profile analysis of conductors and insulators. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 776-783.	1.6	11
121	Depth profile characterization of Zn-TiO <sub>2</sub> nanocomposite films by pulsed radiofrequency glow discharge-optical emission spectrometry. <i>Talanta</i> , 2011, 84, 572-578.	2.9	15
122	Bioavailability, tissue distribution and hypoglycaemic effect of vanadium in magnesium-deficient rats. <i>Magnesium Research</i> , 2011, 24, 196-208.	0.4	21
123	Fluorescent conjugated polymers for chemical and biochemical sensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1513-1525.	5.8	102
124	Development of a quantum dot-based fluorescent immunoassay for progesterone determination in bovine milk. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4753-4759.	5.3	62
125	Nanoparticles as fluorescent labels for optical imaging and sensing in genomics and proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 29-42.	1.9	114
126	Quantum dot-based array for sensitive detection of Escherichia coli. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2755-2762.	1.9	38



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127	Elemental ratio determinations and compound-independent calibration using microsecond pulsed glow discharge time-of-flight mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 2771-2777.	1.9	7
128	Quantitative depth profile analysis of metallic coatings by pulsed radiofrequency glow discharge optical emission spectrometry. <i>Analytica Chimica Acta</i> , 2011, 684, 47-53.	2.6	13
129	Evaluation of pulsed radiofrequency glow discharge time-of-flight mass spectrometry for precious metal determination in lead fire assay buttons. <i>Analytica Chimica Acta</i> , 2011, 701, 129-133.	2.6	11
130	Quantitative targeted biomarker assay for glycated haemoglobin by multidimensional LC using mass spectrometric detection. <i>Journal of Proteomics</i> , 2011, 74, 35-43.	1.2	25
131	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.	1.5	38
132	Inorganic mass spectrometry as a tool for characterisation at the nanoscale. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 15-29.	1.9	55
133	A focus on quantum dots for luminescent bioanalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 1395-1396.	1.9	2
134	ICP-MS for multiplex absolute determinations of proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1853-1859.	1.9	24
135	Quantitative methods for studying DNA interactions with chemotherapeutic cisplatin. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 1390-1398.	5.8	16
136	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.	4.0	28
137	Glow discharge analysis of nanostructured materials and nanolayers "A review. <i>Analytica Chimica Acta</i> , 2010, 679, 7-16.	2.6	31
138	Speciation and isotope pattern deconvolution for inductively coupled plasma-mass spectrometry quantitative studies of mineral metabolism and supplementation. <i>Pure and Applied Chemistry</i> , 2010, 82, 447-460.	0.9	9
139	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, 6862-6869.	3.2	13
140	Gas chromatography coupled to tunable pulsed glow discharge time-of-flight mass spectrometry for environmental analysis. <i>Analyst</i> , The, 2010, 135, 987.	1.7	11
141	Improvement of the analytical performance in RF-GD-OES for non-conductive materials by means of thin conductive layer deposition and the presence of a magnetic field. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1247.	1.6	9
142	Pulsed radiofrequency glow discharge optical emission spectrometry for the direct characterisation of photovoltaic thin film silicon solar cells. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 370.	1.6	21
143	Enantioselective determination of thyroxine enantiomers by ligand-exchange CE with UV absorbance and ICP-MS detection. <i>Electrophoresis</i> , 2009, 30, 1774-1782.	1.3	24
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