Beatriz Fernandez

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Gold nanoclusters as elemental label for the sequential quantification of apolipoprotein E and metallothionein 2A in individual human cells of the retinal pigment epithelium using single cell-ICP-MS. Analytica Chimica Acta, 2022, 1203, 339701.	5.4	7
2	lridium nanoclusters as high sensitive-tunable elemental labels for immunoassays: Determination of IgE and APOE in aqueous humor by inductively coupled plasma-mass spectrometry. Talanta, 2022, 244, 123424.	5.5	8
3	General purification methods of metal nanoclusters. , 2022, , 161-186.		Ο
4	Real matrix-matched standards for quantitative bioimaging of cytosolic proteins in individual cells using metal nanoclusters as immunoprobes-label: A case study using laser ablation ICP-MS detection. Analytica Chimica Acta, 2022, 1221, 340128.	5.4	5
5	Multiplex bioimaging of proteins-related to neurodegenerative diseases in eye sections by laser ablation - Inductively coupled plasma – Mass spectrometry using metal nanoclusters as labels. Talanta, 2021, 221, 121489.	5.5	19
6	Synthesis of Iridium and Palladium Nanoclusters for Biomedical Applications. Materials Proceedings, 2021, 4, 49.	0.2	0
7	Nanoparticles as labels of specific-recognition reactions for the determination of biomolecules by inductively coupled plasma-mass spectrometry. Analytica Chimica Acta, 2020, 1128, 251-268.	5.4	23
8	Pulsed radiofrequency glow discharge time-of-flight mass spectrometry: Depth profile analysis of multilayers on conductive and non-conductive substrates. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 168, 105865.	2.9	2
9	Imaging of proteins in biological tissues by fluorescence microscopy and laser ablation-ICP-MS using natural and isotopically enriched silver nanoclusters. Journal of Analytical Atomic Spectrometry, 2020, 35, 1868-1879.	3.0	10
10	Microcentrifuge tubes as disposable immunoelectrochemical cells for the on-site detection of GFAP, biomarker of hemorrhagic stroke. , 2020, 60, .		1
11	Synthesis of Size Monodisperse Water-Soluble Metal Nanoclusters for Protein Quantification by Elemental Mass Spectrometry. Materials Proceedings, 2020, 4, .	0.2	Ο
12	Bimodal determination of immunoglobulin E by fluorometry and ICP-MS by using platinum nanoclusters as a label in an immunoassay. Mikrochimica Acta, 2019, 186, 705.	5.0	10
13	Laser ablation ICP-MS for simultaneous quantitative imaging of iron and ferroportin in hippocampus of human brain tissues with Alzheimer's disease. Talanta, 2019, 197, 413-421.	5.5	64
14	Plasma profiling-time of flight mass spectrometry: considerations to exploit its analytical performance for materials characterization. Journal of Analytical Atomic Spectrometry, 2019, 34, 702-707.	3.0	1
15	Fluorescent silver nanoclusters as antibody label in a competitive immunoassay for the complement factor H. Mikrochimica Acta, 2019, 186, 429.	5.0	14
16	Isotopically Enriched Tracers and Inductively Coupled Plasma Mass Spectrometry Methodologies to Study Zinc Supplementation in Single-Cells of Retinal Pigment Epithelium in Vitro. Analytical Chemistry, 2019, 91, 4488-4495.	6.5	10
17	Elemental and molecular imaging by LA-ICP-MS. Analytical and Bioanalytical Chemistry, 2019, 411, 547-548.	3.7	5
18	Quantitative mapping of specific proteins in biological tissues by laser ablation–ICP-MS using exogenous labels: aspects to be considered. Analytical and Bioanalytical Chemistry, 2019, 411, 549-558.	3.7	27

BEATRIZ FERNANDEZ

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19	Rapid evaluation of different perovskite absorber layers through the application of depth profile analysis using glow discharge – Time of flight mass spectrometry. Talanta, 2019, 192, 317-324.	5.5	3
20	Silicon induced Fe deficiency affects Fe, Mn, Cu and Zn distribution in rice (Oryza sativa L.) growth in calcareous conditions. Plant Physiology and Biochemistry, 2018, 125, 153-163.	5.8	26
21	Bioimaging of metallothioneins in ocular tissue sections by laser ablation-ICP-MS using bioconjugated gold nanoclusters as specific tags. Mikrochimica Acta, 2018, 185, 64.	5.0	27
22	Quantitative study of zinc and metallothioneins in the human retina and RPE cells by mass spectrometry-based methodologies. Talanta, 2018, 178, 222-230.	5.5	20
23	The Zinc-Metallothionein Redox System Reduces Oxidative Stress in Retinal Pigment Epithelial Cells. Nutrients, 2018, 10, 1874.	4.1	39
24	Elemental Direct Solid Analysis (GD-OES, LIBS, GD-MS and LA-ICP-MS). , 2018, , 1-1.		0
25	Quantitative Imaging of Specific Proteins in the Human Retina by Laser Ablation ICPMS using Bioconjugated Metal Nanoclusters as Labels. Analytical Chemistry, 2018, 90, 12145-12151.	6.5	26
26	Iron and Zinc in the Embryo and Endosperm of Rice (Oryza sativa L.) Seeds in Contrasting 2′-Deoxymugineic Acid/Nicotianamine Scenarios. Frontiers in Plant Science, 2018, 9, 1190.	3.6	47
27	Atomic Absorption Spectrometry: Fundamentals, Instrumentation and Capabilities. , 2018, , 137-137.		7
28	Atomic Mass Spectrometry/LA-ICP-MS. , 2018, , 218-218.		0
29	Opportunities and challenges of isotopic analysis by laser ablation ICP-MS in biological studies. TrAC - Trends in Analytical Chemistry, 2018, 105, 380-390.	11.4	22
30	Characterization of thin film tandem solar cells by radiofrequency pulsed glow discharge – Time of flight mass spectrometry. Talanta, 2017, 165, 289-296.	5.5	11
31	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. Journal of Analytical Atomic Spectrometry, 2017, 32, 1746-1756.	3.0	13
32	Depth profile analysis with glow discharge spectrometry. Journal of Analytical Atomic Spectrometry, 2017, 32, 920-930.	3.0	33
33	Synthesis of amino-functionalized silica nanoparticles for preparation of new laboratory standards. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 138, 1-7.	2.9	9
34	Capabilities of radiofrequency pulsed glow discharge-time of flight mass spectrometry for molecular screening in polymeric materials: positive versus negative ion mode. Journal of Analytical Atomic Spectrometry, 2016, 31, 212-219.	3.0	7
35	Depth Profile Analysis of Amorphous Silicon Thin Film Solar Cells by Pulsed Radiofrequency Glow Discharge Time of Flight Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2015, 26, 305-314.	2.8	8
36	Pulsed radiofrequency glow discharge time of flight mass spectrometry for coated glass analysis. Journal of Analytical Atomic Spectrometry, 2015, 30, 1108-1116.	3.0	14

BEATRIZ FERNANDEZ

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37	A path towards a better characterisation of silicon thinâ€film solar cells: depth profile analysis by pulsed radiofrequency glow discharge optical emission spectrometry. Progress in Photovoltaics: Research and Applications, 2014, 22, 1246-1255.	8.1	11
38	Design and evaluation of a new Peltier-cooled laser ablation cell with on-sample temperature control. Analytica Chimica Acta, 2014, 809, 88-96.	5.4	36
39	Improving pulsed radiofrequency glow discharge for time-of-flight mass spectrometry simultaneous elemental and molecular analysis. Analytical and Bioanalytical Chemistry, 2014, 406, 7431-7443.	3.7	Ο
40	Quantitative bioimaging of trace elements in the human lens by LA-ICP-MS. Analytical and Bioanalytical Chemistry, 2014, 406, 2343-2348.	3.7	50
41	On-line double isotope dilution laser ablation inductively coupled plasma mass spectrometry for the quantitative analysis of solid materials. Analytica Chimica Acta, 2014, 851, 64-71.	5.4	20
42	A Possible Growth Mechanism for ZnO-TiO2Composite Nanostructured Films Prepared by Electrodeposition. Journal of the Electrochemical Society, 2014, 161, D125-D133.	2.9	12
43	Gold internal standard correction for elemental imaging of soft tissue sections by LA-ICP-MS: element distribution in eye microstructures. Analytical and Bioanalytical Chemistry, 2013, 405, 3091-3096.	3.7	53
44	Detection of transgenerational barium dual-isotope marks in salmon otoliths by means of LA-ICP-MS. Analytical and Bioanalytical Chemistry, 2013, 405, 2901-2909.	3.7	20
45	Elemental analyses of soil and sediment fused with lithium borate using isotope dilution laser ablation-inductively coupled plasma-mass spectrometry. Analytica Chimica Acta, 2013, 793, 72-78.	5.4	21
46	lsotope dilution mass spectrometry for quantitative elemental analysis of powdered samples by radiofrequency pulsed glow discharge time of flight mass spectrometry. Talanta, 2013, 115, 657-664.	5.5	5
47	Challenging identifications of polymer coatings by radiofrequency pulsed glow discharge-time of flight mass spectrometry. Journal of Analytical Atomic Spectrometry, 2013, 28, 1054.	3.0	7
48	Critical evaluation of the potential of radiofrequency pulsed glow discharge–time-of-flight mass spectrometry for depth-profile analysis of innovative materials. Analytical and Bioanalytical Chemistry, 2013, 405, 5655-5662.	3.7	27
49	RF-pulsed glow discharge time-of-flight mass spectrometry for glass analysis: Investigation of the ion source design. Analytica Chimica Acta, 2012, 756, 30-36.	5.4	11
50	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. Journal of Analytical Atomic Spectrometry, 2012, 27, 71-79.	3.0	8
51	Endogenous and exogenous hydrogen influence on amorphous silicon thin films analysis by pulsed radiofrequency glow discharge optical emission spectrometry. Analytica Chimica Acta, 2012, 714, 1-7.	5.4	9
52	Plasma immersion ion implantation for reducing metal ion release. , 2012, , .		1
53	Pulsed glow discharge time of flight mass spectrometry for the screening of polymer-based coatings containing brominated flame retardants. Journal of Analytical Atomic Spectrometry, 2012, 27, 318-326.	3.0	14
54	Laser ablation ICP-MS for quantitative biomedical applications. Analytical and Bioanalytical Chemistry, 2012, 403, 2113-2125.	3.7	113

BEATRIZ FERNANDEZ

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55	P, S and Cl trace detection by laser ablation double-focusing sector field ICP-MS to identify local defects in coated glasses. Journal of Analytical Atomic Spectrometry, 2011, 26, 1526.	3.0	4
56	Quantitative depth profiling of boron and arsenic ultra low energy implants by pulsed rf-GD-ToFMS. Journal of Analytical Atomic Spectrometry, 2011, 26, 542-549.	3.0	18
57	Pulsed Radiofrequency Glow Discharge Time-of-Flight Mass Spectrometry for Nanostructured Materials Characterization. Analytical Chemistry, 2011, 83, 329-337.	6.5	25
58	Absolute Quantification of Human Serum Transferrin by Species-Specific Isotope Dilution Laser Ablation ICP-MS. Analytical Chemistry, 2011, 83, 5353-5360.	6.5	38
59	Analytical performance of pulsed radiofrequency glow discharge optical emission spectrometry for bulk and in-depth profile analysis of conductors and insulators. Journal of Analytical Atomic Spectrometry, 2011, 26, 776-783.	3.0	11
60	Depth profile characterization of Zn–TiO2 nanocomposite films by pulsed radiofrequency glow discharge-optical emission spectrometry. Talanta, 2011, 84, 572-578.	5.5	15
61	Quantitative depth profile analysis of metallic coatings by pulsed radiofrequency glow discharge optical emission spectrometry. Analytica Chimica Acta, 2011, 684, 47-53.	5.4	13
62	Studies on the Stability of Zn and Zn–TiO[sub 2] Nanocomposite Coatings Prepared by Pulse Reverse Current. Journal of the Electrochemical Society, 2011, 158, C63.	2.9	7
63	Characterization of Doped Amorphous Silicon Thin Films through the Investigation of Dopant Elements by Glow Discharge Spectrometry: A Correlation of Conductivity and Bandgap Energy Measurements. International Journal of Molecular Sciences, 2011, 12, 2200-2215.	4.1	4
64	Inorganic mass spectrometry as a tool for characterisation at the nanoscale. Analytical and Bioanalytical Chemistry, 2010, 396, 15-29.	3.7	55
65	Investigation of glow-discharge-induced morphology modifications on silicon wafers and chromium conversion coatings by AFM and rugosimetry. Analytical and Bioanalytical Chemistry, 2010, 396, 2841-2853.	3.7	6
66	Depth profile analysis: coatings and thin layers. Analytical and Bioanalytical Chemistry, 2010, 396, 2723-2724.	3.7	1
67	Glow discharge analysis of nanostructured materials and nanolayers—A review. Analytica Chimica Acta, 2010, 679, 7-16.	5.4	31
68	Pulsed radiofrequency glow discharge optical emission spectrometry for the direct characterisation of photovoltaic thin film silicon solar cells. Journal of Analytical Atomic Spectrometry, 2010, 25, 370.	3.0	21
69	Characterization of the aerosol produced by infrared femtosecond laser ablation of polyacrylamide gels for the sensitive inductively coupled plasma mass spectrometry detection of selenoproteins. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 649-658.	2.9	15
70	The effect of glow discharge sputtering on the analysis of metal oxide films. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 155-166.	2.9	22
71	Critical revision of GD-MS, LA-ICP-MS and SIMS as inorganic mass spectrometric techniques for direct solid analysis. Journal of Analytical Atomic Spectrometry, 2009, 24, 1145.	3.0	153
72	Elemental fractionation effects in high repetition rate IR femtosecond laser ablation ICP-MS analysis of glasses. Journal of Analytical Atomic Spectrometry, 2009, 24, 891.	3.0	50

Beatriz Fernandez

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73	In-depth profile analysis of oxide films by radiofrequency glow discharge optical emission spectrometry (rf-GD-OES): possibilities of depth-resolved solid-state speciation. Journal of Analytical Atomic Spectrometry, 2008, 23, 1378.	3.0	13
74	Solid-spiking isotope dilution laser ablation ICP-MS for the direct and simultaneous determination of trace elements in soils and sediments. Journal of Analytical Atomic Spectrometry, 2008, 23, 367-377.	3.0	43
75	Direct Determination of Trace Elements in Powdered Samples by In-Cell Isotope Dilution Femtosecond Laser Ablation ICPMS. Analytical Chemistry, 2008, 80, 6981-6994.	6.5	47
76	Direct analysis of solid samples by fs-LA-ICP-MS. TrAC - Trends in Analytical Chemistry, 2007, 26, 951-966.	11.4	181
77	Nitrogen effects in multi-matrix calibrations by radiofrequency glow discharge – optical emission spectrometry. Analytical and Bioanalytical Chemistry, 2007, 389, 743-752.	3.7	7
78	Application of radiofrequency glow discharge-optical emission spectrometry for direct analysis of main components of glass samples. Journal of Analytical Atomic Spectrometry, 2006, 21, 1412-1418.	3.0	5
79	Glow-discharge spectrometry for direct analysis of thin and ultra-thin solid films. TrAC - Trends in Analytical Chemistry, 2006, 25, 11-18.	11.4	103
80	In-depth profile analysis of thin films deposited on non-conducting glasses by radiofrequency glow-discharge–optical emission spectrometry. Analytical and Bioanalytical Chemistry, 2006, 384, 876-886.	3.7	11
81	Determination of phosphorus and carbon in phosphorylated deoxynucleotides via particle beam/hollow cathode glow discharge optical emission spectroscopy (PB/HC-OES). Journal of Analytical Atomic Spectrometry, 2005, 20, 924.	3.0	10
82	The effect of thin conductive layers on glass on the performance of radiofrequency glow discharge optical emission spectrometry. Journal of Analytical Atomic Spectrometry, 2005, 20, 462-466.	3.0	18
83	Radio Frequency Clow Discharge-Optical Emission Spectrometry For Direct Quantitative Analysis of Class. Analytical Chemistry, 2004, 76, 1039-1044.	6.5	27
84	Investigations of the effect of hydrogen, nitrogen or oxygen on the in-depth profile analysis by radiofrequency argon glow discharge-optical emission spectrometry. Journal of Analytical Atomic Spectrometry, 2003, 18, 151-156.	3.0	42
85	The influence of hydrogen, nitrogen or oxygen additions to radiofrequency argon glow discharges for optical emission spectrometry. Journal of Analytical Atomic Spectrometry, 2002, 17, 1549-1555.	3.0	39