

Eladia MarÃ±a PeÃ±a-MÃ©ndez

List of Publications by Year in descending order

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53
papers

2,449
citations

361413

20
h-index

197818

49
g-index

54
all docs

54
docs citations

54
times ranked

3554
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial neural networks in medical diagnosis. <i>Journal of Applied Biomedicine</i> , 2013, 11, 47-58.	1.7	629
2	Silver or silver nanoparticles: a hazardous threat to the environment and human health?. <i>Journal of Applied Biomedicine</i> , 2008, 6, 117-129.	1.7	429
3	Humic substances - compounds of still unknown structure: applications in agriculture, industry, environment, and biomedicine. <i>Journal of Applied Biomedicine</i> , 2005, 3, 13-24.	1.7	262
4	Gold and nano-gold in medicine: overview, toxicology and perspectives. <i>Journal of Applied Biomedicine</i> , 2009, 7, 75-91.	1.7	151
5	Coordination compounds in cancer: Past, present and perspectives. <i>Journal of Applied Biomedicine</i> , 2015, 13, 79-103.	1.7	113
6	Neural networks for optimization of high-performance capillary zone electrophoresis methods. <i>Journal of Chromatography A</i> , 1998, 793, 317-329.	3.7	81
7	Classification and differentiation of bottled sweet wines of Canary Islands (Spain) by their metallic content. <i>European Food Research and Technology</i> , 2001, 213, 145-149.	3.3	55
8	Supramolecular interactions of humic acids with organic and inorganic xenobiotics studied by capillary electrophoresis. <i>Chemosphere</i> , 2003, 51, 95-108.	8.2	51
9	Use of artificial neural networks in capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1999, 848, 365-374.	3.7	42
10	Capillary zone electrophoresis study of aggregation of humic substances. <i>Journal of Chromatography A</i> , 1998, 817, 313-323.	3.7	33
11	Laser ablation generation of arsenic and arsenic sulfide clusters. <i>Polyhedron</i> , 2005, 24, 1417-1424.	2.2	33
12	Mass spectrometry of nanodiamonds. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1125-1131.	1.5	32
13	Laser ablation synthesis of new gold phosphides using red phosphorus and nanogold as precursors. Laser desorption ionisation time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1100-1108.	1.5	28
14	Characterization of various chestnut cultivars by means of chemometrics approach. <i>Food Chemistry</i> , 2008, 107, 537-544.	8.2	27
15	Chemical fingerprinting applied to the evaluation of marine oil pollution in the coasts of Canary Islands (Spain). <i>Environmental Pollution</i> , 2001, 111, 177-187.	7.5	25
16	Laser ablation of AgSbS ₂ and cluster analysis by time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1715-1718.	1.5	25
17	Rapid discrimination of multiple myeloma patients by artificial neural networks coupled with mass spectrometry of peripheral blood plasma. <i>Scientific Reports</i> , 2019, 9, 7975.	3.3	24
18	Application of principal component analysis to the study of major cations and trace metals in fish from Tenerife (Canary Islands). <i>Chemometrics and Intelligent Laboratory Systems</i> , 1999, 49, 173-178.	3.5	23

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19	Mass spectrometry of humic substances of different origin including those from AntarcticaA comparative study. <i>Talanta</i> , 2005, 67, 880-890.	5.5	23
20	Detection of SARS-CoV-2 Infection in Human Nasopharyngeal Samples by Combining MALDI-TOF MS and Artificial Intelligence. <i>Frontiers in Medicine</i> , 2021, 8, 661358.	2.6	23
21	Multivariate data analysis in classification of must and wine from chemical measurements. <i>European Food Research and Technology</i> , 2000, 212, 100-107.	3.3	22
22	Cluster Analysis and Artificial Neural Networks Multivariate Classification of Onion Varieties. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 11435-11440.	5.2	19
23	Derivatisation of peptides with osmium tetroxide, 2,2'-bipyridine: capillary electrophoretic and MALDI-TOF mass spectrometric study. <i>Analytica Chimica Acta</i> , 2004, 515, 261-269.	5.4	17
24	Humic acid capillary zone electrophoresis adsorption on capillary walls, separation in metal ion supplemented buffer and the fingerprints. <i>Electrophoresis</i> , 1998, 19, 2465-2473.	2.4	16
25	Laser ablation synthesis of new gold carbides. From gold-diamond nano-composite as a precursor to gold-doped diamonds. Time-of-flight mass spectrometric study. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 297-304.	1.5	15
26	Evaluation of <i>Osilinus attratus</i> as a bioindicator organism to monitor oil pollution in the Canary Islands. <i>Archives of Environmental Contamination and Toxicology</i> , 1996, 31, 444-452.	4.1	14
27	Mass spectrometry and ab initio calculation of AsS_2 ion structures. <i>Polyhedron</i> , 2010, 29, 1567-1574.	2.2	14
28	Classification of some heat-treated liver pastes according to container type, using heavy metals content and manufacturer's data, by principal components analysis and potential curves. <i>Meat Science</i> , 2006, 74, 296-302.	5.5	13
29	Characterization of humic substances of different origin by means of mass spectrometry and neural networks. <i>Chemosphere</i> , 2007, 68, 2047-2053.	8.2	13
30	Determination of Inorganic Bromide Content in Several Vegetable Foods. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2007, 78, 417-420.	2.7	13
31	Artificial neural networks in online semiautomated pest discriminability: an applied case with 2 Thrips species. <i>Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry</i> , 2014, 38, 111-124.	2.1	13
32	Heavy metals in <i>Mytilus chilensis</i> from the strait of magallenes (Chile). <i>Marine Pollution Bulletin</i> , 1998, 36, 542-546.	5.0	12
33	Sources of Tar Balls and Oil Slicks on the Coasts of the Canary Islands. <i>International Journal of Environmental Analytical Chemistry</i> , 1996, 62, 77-84.	3.3	11
34	Mass spectrometry and UV-VIS spectrophotometry of ruthenium(II) $[\text{RuClCp}(\text{mPTA})_2(\text{OSO})_2\text{CF}_3]_2$ complex in solution. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 3831-3836.	1.5	11
35	Laser ablation synthesis of new gold arsenides using nano-gold and arsenic as precursors. Laser desorption ionisation time-of-flight mass spectrometry and spectrophotometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 577-586.	1.5	11
36	Laser desorption time-of-flight mass spectrometry of atomic switch memory $\text{Ge}_2\text{Sb}_2\text{Te}_5$ bulk materials and its thin films. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 699-704.	1.5	11

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37	Tissue profiling by nanogold-mediated mass spectrometry and artificial neural networks in the mouse model of human primary hyperoxaluria 1. <i>Journal of Applied Biomedicine</i> , 2014, 12, 119-125.	1.7	11
38	Interpretation of analytical data on n-alkanes and polynuclear aromatic hydrocarbons in <i>Arbacia lixula</i> from the coasts of Tenerife (Canary Islands, Spain) by multivariate data analysis. <i>Chemosphere</i> , 1999, 39, 2259-2270.	8.2	10
39	Matrix-assisted laser desorption/ionization mass spectrometry (MALDI TOF MS) study of Huperzine A, a natural anti-Alzheimer's disease product, its derivatization and its detection by highly sensitive laser induced fluorescence (LIF). <i>Talanta</i> , 2007, 72, 780-784.	5.5	10
40	Polychlorinated biphenyls in two mollusc species from the coast of Tenerife (Canary Islands, Spain). <i>Chemosphere</i> , 1996, 32, 2371-2380.	8.2	9
41	Interpretation of heavy metal data from mussel by use of multivariate classification techniques. <i>Chemosphere</i> , 1999, 38, 1103-1111.	8.2	9
42	Laser ablation synthesis of new gold tellurides using tellurium and nanogold as precursors. Laser desorption ionisation time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1600-1606.	1.5	9
43	Intact Cell Mass Spectrometry as a Quality Control Tool for Revealing Minute Phenotypic Changes of Cultured Human Embryonic Stem Cells. <i>Stem Cells Translational Medicine</i> , 2018, 7, 109-114.	3.3	8
44	Laser ablation synthesis of selenium superoxide anion $\text{SeO}_4^{\cdot-}$ via selenium trioxide photolysis. Time-of-flight mass spectrometry and ab initio calculations. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3405-3410.	1.5	7
45	Laser desorption/ionization and laser ablation synthesis of new selenium oxide compounds from selenium(IV) dioxide. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1019-1024.	1.5	7
46	Laser Ablation Synthesis of Gold Selenides by using a Mass Spectrometer as a Synthesizer: Laser Desorption Ionization Time-of-Flight Mass Spectrometry. <i>Chemistry - A European Journal</i> , 2016, 22, 11261-11268.	3.3	6
47	Laser ablation synthesis of arsenic phosphide As_mP_n clusters from As_2P_3 mixtures. Laser desorption ionisation with quadrupole ion trap time-of-flight mass spectrometry: The mass spectrometer as a synthesizer. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 789-800.	1.5	6
48	Laser ablation synthesis of metal-doped gold clusters from composites of gold nanoparticles with metal organic frameworks. <i>Scientific Reports</i> , 2021, 11, 4656.	3.3	6
49	Polycyclic Aromatic Hydrocarbons and n-Alkanes in the Intertidal Limpet <i>Patella crenata</i> from the Coast of Tenerife, Canary Islands. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1999, 63, 665-672.	2.7	5
50	Differentiation of heat-treated pork liver pastes according to their metal content using multivariate data analysis. <i>European Food Research and Technology</i> , 2004, 218, 584-588.	3.3	4
51	Direct laser desorption ionisation time-of-flight (TOF) mass spectrometry of soil organic matter for fast soil fingerprints. <i>Chemistry and Ecology</i> , 2010, 26, 167-175.	1.6	3
52	Hydrocarbon Contamination in the Canary Islands. II. Intertidal Limpet <i>Patella ulyssiponensis aspera</i> . <i>Bulletin of Environmental Contamination and Toxicology</i> , 1998, 61, 72-79.	2.7	2
53	Intact Cell Mass Spectrometry for Embryonic Stem Cell Biotyping. , 0, , .		2