Eladia MarÃ-a PeÃ±a-MÃ©ndez

List of Publications by Year
in descending order

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	Laser ablation synthesis of metal-doped gold clusters from composites of gold nanoparticles with metal organic frameworks. Scientific Reports, 2021, 11, 4656.	3.3	6
2	Detection of SARS-CoV-2 Infection in Human Nasopharyngeal Samples by Combining MALDI-TOF MS and Artificial Intelligence. Frontiers in Medicine, 2021, 8, 661358.	2.6	23
3	Rapid discrimination of multiple myeloma patients by artificial neural networks coupled with mass spectrometry of peripheral blood plasma. Scientific Reports, 2019, 9, 7975.	3.3	24
4	Intact Cell Mass Spectrometry as a Quality Control Tool for Revealing Minute Phenotypic Changes of Cultured Human Embryonic Stem Cells. Stem Cells Translational Medicine, 2018, 7, 109-114.	3.3	8
5	Laser ablation synthesis of arsenicâ€“phosphide As_mP_n clusters from Asâ€“P mixtures. Laser desorption ionisation with quadrupole ion trap timeâ€ofâ€flight mass spectrometry: The mass spectrometer as a synthesizer. Rapid Communications in Mass Spectrometry, 2018, 32, 789-800.	1.5	6
6	Laser Ablation Synthesis of Gold Selenides by using a Mass Spectrometer as a Synthesizer: Laser Desorption Ionization Timeâ€ofâ€Flight Mass Spectrometry. Chemistry - A European Journal, 2016, 22, 11261-11268.	3.3	6
7	Coordination compounds in cancer: Past, present and perspectives. Journal of Applied Biomedicine, 2015, 13, 79-103.	1.7	113
8	Artificial neural networks in online semiautomated pest discriminability: an applied case with 2 Thrips species. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2014, 38, 111-124.	2.1	13
9	Laser ablation synthesis of new gold arsenides using nano-gold and arsenic as precursors. Laser desorption ionisation time-of-flight mass spectrometry and spectrophotometry. Rapid Communications in Mass Spectrometry, 2014, 28, 577-586.	1.5	11
10	Laser ablation synthesis of new gold carbides. From goldâ€diamond nanoâ€composite as a precursor to goldâ€doped diamonds. Timeâ€ofâ€flight mass spectrometric study. Rapid Communications in Mass Spectrometry, 2014, 28, 297-304.	1.5	15
11	Laser desorption timeâ€ofâ€flight mass spectrometry of atomic switch memory Ge₂Sb₂Te₅ bulk materials and its thin films. Rapid Communications in Mass Spectrometry, 2014, 28, 699-704.	1.5	11
12	Tissue profiling by nanogold-mediated mass spectrometry and artificial neural networks in the mouse model of human primary hyperoxaluria 1. Journal of Applied Biomedicine, 2014, 12, 119-125.	1.7	11
13	Artificial neural networks in medical diagnosis. Journal of Applied Biomedicine, 2013, 11, 47-58.	1.7	629
14	Laser ablation synthesis of new gold tellurides using tellurium and nanogold as precursors. Laser desorption ionisation timeâ€ofâ€flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 1600-1606.	1.5	9
15	Laser ablation synthesis of new gold phosphides using red phosphorus and nanogold as precursors. Laser desorption ionisation timeâ€ofâ€flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2012, 26, 1100-1108.	1.5	28
16	Mass spectrometry and ab initio calculation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msubsup><mml:mrow><mml:mtext>AsS</mml:mtext></mml:mrow><mml:mrow><mml:mi>n</m (n= 1â€“7) ion structures. Polyhedron, 2010, 29, 1567-1574.	2.2	14
17	Direct laser desorption ionisation time-of-flight (TOF) mass spectrometry of soil organic matter for fast soil fingerprints. Chemistry and Ecology, 2010, 26, 167-175.	1.6	3
18	Cluster Analysis and Artificial Neural Networks Multivariate Classification of Onion Varieties. Journal of Agricultural and Food Chemistry, 2010, 58, 11435-11440.	5.2	19

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19	Mass spectrometry of nanodiamonds. Rapid Communications in Mass Spectrometry, 2009, 23, 1125-1131.	1.5	32
20	Laser ablation of AgSbS₂ and cluster analysis by timeâ€ofâ€flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 1715-1718.	1.5	25
21	Mass spectrometry and UVâ€VIS spectrophotometry of ruthenium(II) [RuClCp(mPTA)₂](OSO₂CF₃)₂ complex in solution. Rapid Communications in Mass Spectrometry, 2009, 23, 3831-3836.	1.5	11
22	Gold and nano-gold in medicine: overview, toxicology and perspectives. Journal of Applied Biomedicine, 2009, 7, 75-91.	1.7	151
23	Characterization of various chestnut cultivars by means of chemometrics approach. Food Chemistry, 2008, 107, 537-544.	8.2	27
24	Silver or silver nanoparticles: a hazardous threat to the environment and human health?. Journal of Applied Biomedicine, 2008, 6, 117-129.	1.7	429
25	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). Talanta, 2007, 72, 780-784.	5.5	10
26	Characterization of humic substances of different origin by means of mass spectrometry and neural networks. Chemosphere, 2007, 68, 2047-2053.	8.2	13
27	Determination of Inorganic Bromide Content in Several Vegetable Foods. Bulletin of Environmental Contamination and Toxicology, 2007, 78, 417-420.	2.7	13
28	Classification of some heat-treated liver pastes according to container type, using heavy metals content and manufacturerâ€™s data, by principal components analysis and potential curves. Meat Science, 2006, 74, 296-302.	5.5	13
29	Laser desorption/ionization and laser ablation synthesis of new selenium oxide compounds from selenium(IV) dioxide. Rapid Communications in Mass Spectrometry, 2006, 20, 1019-1024.	1.5	7
30	Laser ablation generation of arsenic and arsenic sulfide clusters. Polyhedron, 2005, 24, 1417-1424.	2.2	33
31	Laser ablation synthesis of selenium superoxide anion SeO4â¯ via selenium trioxide photolysis. Time-of-flight mass spectrometry andab initio calculations. Rapid Communications in Mass Spectrometry, 2005, 19, 3405-3410.	1.5	7
32	Mass spectrometry of humic substances of different origin including those from AntarcticaA comparative study. Talanta, 2005, 67, 880-890.	5.5	23
33	Humic substances - compounds of still unknown structure: applications in agriculture, industry, environment, and biomedicine. Journal of Applied Biomedicine, 2005, 3, 13-24.	1.7	262
34	Differentiation of heat-treated pork liver pastes according to their metal content using multivariate data analysis. European Food Research and Technology, 2004, 218, 584-588.	3.3	4
35	Derivatisation of peptides with osmium tetroxide, 2,2â€²-bipyridine: capillary electrophoretic and MALDIâ€“TOF mass spectrometric study. Analytica Chimica Acta, 2004, 515, 261-269.	5.4	17
36	Supramolecular interactions of humic acids with organic and inorganic xenobiotics studied by capillary electrophoresis. Chemosphere, 2003, 51, 95-108.	8.2	51

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37	Chemical fingerprinting applied to the evaluation of marine oil pollution in the coasts of Canary Islands (Spain). Environmental Pollution, 2001, 111, 177-187.	7.5	25
38	Classification and differentiation of bottled sweet wines of Canary Islands (Spain) by their metallic content. European Food Research and Technology, 2001, 213, 145-149.	3.3	55
39	Multivariate data analysis in classification of must and wine from chemical measurements. European Food Research and Technology, 2000, 212, 100-107.	3.3	22
40	Application of principal component analysis to the study of major cations and trace metals in fish from Tenerife (Canary Islands). Chemometrics and Intelligent Laboratory Systems, 1999, 49, 173-178.	3.5	23
41	Use of artificial neural networks in capillary zone electrophoresis. Journal of Chromatography A, 1999, 848, 365-374.	3.7	42
42	Polycyclic Aromatic Hydrocarbons and n -Alkanes in the Intertidal Limpet Patella crenata from the Coast of Tenerife, Canary Islands. Bulletin of Environmental Contamination and Toxicology, 1999, 63, 665-672.	2.7	5
43	Interpretation of heavy metal data from mussel by use of mutivariate classification techniques. Chemosphere, 1999, 38, 1103-1111.	8.2	9
44	Interpretation of analytical data on n-alkanes and polynuclear aromatic hydrocarbons in Arbacia lixula from the coasts of Tenerife (Canary Islands, Spain) by multivariate data analysis. Chemosphere, 1999, 39, 2259-2270.	8.2	10
45	Neural networks for optimization of high-performance capillary zone electrophoresis methods. Journal of Chromatography A, 1998, 793, 317-329.	3.7	81
46	Capillary zone electrophoresis study of aggregation of humic substances. Journal of Chromatography A, 1998, 817, 313-323.	3.7	33
47	Humic acid capillary zone electrophoresis adsorption on capillary walls, separation in metal ion supplemented buffer and the fingerprints. Electrophoresis, 1998, 19, 2465-2473.	2.4	16
48	Hydrocarbon Contamination in the Canary Islands. II. Intertidal Limpet Patella ulyssiponensis aspera. Bulletin of Environmental Contamination and Toxicology, 1998, 61, 72-79.	2.7	2
49	Heavy metals in Mytilus chilensis from the strait of magallenes (Chile). Marine Pollution Bulletin, 1998, 36, 542-546.	5.0	12
50	Polychlorinated biphenyls in two mollusc species from the coast of Tenerife (Canary Islands, Spain). Chemosphere, 1996, 32, 2371-2380.	8.2	9
51	Evaluation of Osilinus attratus as a bioindicator organism to monitor oil pollution in the Canary Islands. Archives of Environmental Contamination and Toxicology, 1996, 31, 444-452.	4.1	14
52	Sources of Tar Balls and Oil Slicks on the Coasts of the Canary Islands. International Journal of Environmental Analytical Chemistry, 1996, 62, 77-84.	3.3	11
53	Intact Cell Mass Spectrometry for Embryonic Stem Cell Biotyping. , 0, , .		2