

MarÃ-a Milagros GÃ³mez-GÃ³mez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7135398/publications.pdf>

Version: 2024-02-01

86
papers

4,142
citations

101543

36
h-index

118850

62
g-index

86
all docs

86
docs citations

86
times ranked

3356
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental risk of particulate and soluble platinum group elements released from gasoline and diesel engine catalytic converters. <i>Science of the Total Environment</i> , 2002, 296, 199-208.	8.0	234
2	Levels and risk assessment for humans and ecosystems of platinum-group elements in the airborne particles and road dust of some European cities. <i>Science of the Total Environment</i> , 2002, 299, 1-19.	8.0	221
3	Platinum-group elements: quantification in collected exhaust fumes and studies of catalyst surfaces. <i>Science of the Total Environment</i> , 2000, 257, 1-15.	8.0	206
4	Arsenic speciation in environmental and biological samples. <i>Analytica Chimica Acta</i> , 2003, 495, 85-98.	5.4	181
5	Bioaccumulation of palladium, platinum and rhodium from urban particulates and sediments by the freshwater isopod <i>Asellus aquaticus</i> . <i>Water Research</i> , 2001, 35, 4175-4183.	11.3	169
6	Platinum and rhodium distribution in airborne particulate matter and road dust. <i>Science of the Total Environment</i> , 2001, 269, 131-144.	8.0	136
7	Elemental Bioimaging in Kidney by LA-ICP-MS As a Tool to Study Nephrotoxicity and Renal Protective Strategies in Cisplatin Therapies. <i>Analytical Chemistry</i> , 2011, 83, 7933-7940.	6.5	130
8	Determination of platinum, rhodium and palladium in exhaust fumes. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 1163-1169.	3.0	127
9	Control of interferences in the determination of Pt, Pd and Rh in airborne particulate matter by inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2000, 404, 285-294.	5.4	111
10	ICP-MS determination of Pt, Pd and Rh in airborne and road dust after tellurium coprecipitation. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 80-83.	3.0	111
11	Migration and characterisation of nanosilver from food containers by AF4-ICP-MS. <i>Food Chemistry</i> , 2015, 166, 76-85.	8.2	107
12	Analytical methodologies for metallomics studies of antitumor Pt-containing drugs. <i>Metallomics</i> , 2010, 2, 19-38.	2.4	98
13	Assessment of environmental contamination risk by Pt, Rh and Pd from automobile catalyst. <i>Microchemical Journal</i> , 2000, 67, 105-113.	4.5	91
14	On-line preconcentration of palladium on alumina microcolumns and determination in urban waters by inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2003, 478, 209-217.	5.4	83
15	Cilastatin protects against cisplatin-induced nephrotoxicity without compromising its anticancer efficiency in rats. <i>Kidney International</i> , 2012, 82, 652-663.	5.2	81
16	Accumulation, Fractionation, and Analysis of Platinum in Toxicologically Affected Tissues after Cisplatin, Oxaliplatin, and Carboplatin Administration. <i>Journal of Analytical Toxicology</i> , 2008, 32, 140-146.	2.8	73
17	Cilastatin Attenuates Cisplatin-Induced Proximal Tubular Cell Damage. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 334, 419-429.	2.5	71
18	A new certified reference material for the quality control of palladium, platinum and rhodium in road dust, BCR-723. <i>TrAC - Trends in Analytical Chemistry</i> , 2002, 21, 851-868.	11.4	65

#	ARTICLE	IF	CITATIONS
19	On-line preconcentration and determination of trace platinum by flow-injection atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1994, 296, 205-211.	5.4	61
20	Stability studies of arsenate, monomethylarsonate, dimethylarsinate, arsenobetaine and arsenocholine in deionized water, urine and clean-up dry residue from urine samples and determination by liquid chromatography with microwave-assisted oxidation-hydride generation atomic absorption spectrometric detection. <i>Analytica Chimica Acta</i> , 1997, 340, 209-220.	5.4	61
21	Evaluation of stability of arsenic species in rice. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 102-109.	3.7	61
22	Silver speciation and characterization of nanoparticles released from plastic food containers by single particle ICPMS. <i>Talanta</i> , 2016, 151, 83-90.	5.5	61
23	Determination of six arsenic species by high-performance liquid chromatography ? hydride generation ? atomic absorption spectrometry with on-line thermo-oxidation. <i>Fresenius' Journal of Analytical Chemistry</i> , 1993, 346, 643-647.	1.5	54
24	Determination of five selenium compounds in urine by liquid chromatography with focused microwave assisted digestion and hydride generationâ€™atomic absorption spectrometric detection. <i>Analytica Chimica Acta</i> , 1998, 374, 241-251.	5.4	53
25	On-line microwave oxidation for the determination of organoarsenic compounds by high-performance liquid chromatographyâ€™hydride generation atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1994, 9, 291-295.	3.0	49
26	Top-Down Mass Spectrometric Approach for the Full Characterization of Insulinâ€™Cisplatin Adducts. <i>Analytical Chemistry</i> , 2009, 81, 3507-3516.	6.5	49
27	Atomic (HPLC-ICP-MS) and molecular mass spectrometry (ESI-Q-TOF) to study cis-platin interactions with serum proteins. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 378-384.	3.0	46
28	Novel insights into the bottom-up mass spectrometry proteomics approach for the characterization of Pt-binding proteins: The insulin-cisplatin case study. <i>Analyst, The</i> , 2010, 135, 1288.	3.5	44
29	Characterization and quantification of silver nanoparticles in nutraceuticals and beverages by asymmetric flow field flow fractionation coupled with inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1371, 227-236.	3.7	44
30	Pharmacologic inhibitors of extracellular signal-regulated kinase (ERKs) and c-Jun NH2-terminal kinase (JNK) decrease glutathione content and sensitize human promonocytic leukemia Cells to arsenic trioxide-induced apoptosis. <i>Journal of Cellular Physiology</i> , 2006, 209, 1006-1015.	4.1	42
31	On-line preconcentration of silver on a sulfhydryl cotton microcolumn and determination by flow injection atomic absorption spectrometry. <i>Analyst, The</i> , 1995, 120, 1911-1915.	3.5	41
32	Simultaneous characterisation of silver nanoparticles and determination of dissolved silver in chicken meat subjected to in vitro human gastrointestinal digestion using single particle inductively coupled plasma mass spectrometry. <i>Food Chemistry</i> , 2017, 221, 822-828.	8.2	41
33	Collaborative evaluation of the analytical state-of-the-art of platinum, palladium and rhodium determinations in road dust. <i>Journal of Environmental Monitoring</i> , 2000, 2, 443-446.	2.1	40
34	Assessment of airborne platinum contamination via ICP-mass spectrometric analysis of tree bark. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 1070-1075.	3.0	38
35	MALDI-LTQ-Orbitrap mass spectrometry imaging for lipidomic analysis in kidney under cisplatin chemotherapy. <i>Talanta</i> , 2017, 164, 16-26.	5.5	38
36	2-Deoxy-d-glucose cooperates with arsenic trioxide to induce apoptosis in leukemia cells: Involvement of IGF-1R-regulated Akt/mTOR, MEK/ERK and LKB-1/AMPK signaling pathways. <i>Biochemical Pharmacology</i> , 2012, 84, 1604-1616.	4.4	37

#	ARTICLE	IF	CITATIONS
37	Bioaccessibility and arsenic speciation in carrots, beets and quinoa from a contaminated area of Chile. <i>Science of the Total Environment</i> , 2016, 565, 557-563.	8.0	37
38	Characterization of Pt-protein complexes by nHPLC-ESI-LTQ MS/MS using a gel-based bottom-up approach. <i>Talanta</i> , 2012, 88, 599-608.	5.5	36
39	LA-ICP-MS and nHPLC-ESI-LTQ-FT-MS/MS for the analysis of cisplatin-protein complexes separated by two dimensional gel electrophoresis in biological samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1474.	3.0	36
40	Printing metal-spiked inks for LA-ICP-MS bioimaging internal standardization: comparison of the different nephrotoxic behavior of cisplatin, carboplatin, and oxaliplatin. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2309-2318.	3.7	35
41	Improvement of selenium determination in water by inductively coupled plasma mass spectrometry through use of organic compounds as matrix modifiers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1997, 52, 1825-1838.	2.9	34
42	Calibration and use of the Chemcatcher® passive sampler for monitoring organotin compounds in water. <i>Analytica Chimica Acta</i> , 2008, 618, 157-167.	5.4	33
43	Arsenic Speciation in Water and Human Urine by HPLC-ICP-MS and HPLC-MO-HG-AAS. <i>Microchemical Journal</i> , 1998, 59, 89-99.	4.5	32
44	Speciation analysis of platinum antitumoral drugs in impacted tissues. <i>Talanta</i> , 2007, 72, 768-773.	5.5	32
45	SEC-ICP-MS and ESI-MS as tools to study the interaction between cisplatin and cytosolic biomolecules. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1113.	3.0	32
46	An approach for quantification of platinum distribution in tissues by LA-ICP-MS imaging using isotope dilution analysis. <i>Talanta</i> , 2018, 178, 166-171.	5.5	32
47	Generation of AsH ₃ from As(V) in the absence of KI as prereducing agent: Speciation of inorganic arsenic. <i>Talanta</i> , 1992, 39, 1343-1348.	5.5	31
48	On-line removal of mass interferences in palladium determination by ICP-MS using modified capillaries coupled to micro-flow nebulizers. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 481-486.	3.0	31
49	Trace enrichment and determination of gold by flow injection inductively coupled plasma spectrometry. Part 1. Inductively coupled plasma atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1993, 8, 461.	3.0	30
50	OFFGEL isoelectric focusing and polyacrylamide gel electrophoresis separation of platinum-binding proteins. <i>Journal of Chromatography A</i> , 2011, 1218, 1281-1290.	3.7	29
51	Pharmacological inhibitors of extracellular signal-regulated protein kinases attenuate the apoptotic action of cisplatin in human myeloid leukemia cells via glutathione-independent reduction in intracellular drug accumulation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2005, 1743, 269-279.	4.1	28
52	Evaluation of high-performance liquid chromatography for the separation and determination of arsenic species by on-line high-performance liquid chromatographic-hydride generation-atomic absorption spectrometry. <i>Biomedical Applications</i> , 1995, 666, 101-109.	1.7	27
53	Effect of the Mineralization Method on Arsenic Determination in Marine Organisms by Hydride Generation Atomic Fluorescence Spectroscopy. <i>Mikrochimica Acta</i> , 2005, 150, 9-14.	5.0	26
54	Application of Chemcatcher passive sampler for monitoring levels of mercury in contaminated river water. <i>Talanta</i> , 2009, 77, 1483-1489.	5.5	26

#	ARTICLE	IF	CITATIONS
55	Anionic cartridge preconcentrators for inorganic arsenic, monomethylarsonate and dimethylarsinate determination by on-line HPLC-HG-AAS. <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 357, 844-849.	1.5	24
56	Assessment of Chemcatcher passive sampler for the monitoring of inorganic mercury and organotin compounds in water. <i>International Journal of Environmental Analytical Chemistry</i> , 2008, 88, 75-90.	3.3	24
57	An approach to the arsenic status in cardiovascular tissues of patients with coronary heart disease. <i>Human and Experimental Toxicology</i> , 2011, 30, 1150-1164.	2.2	24
58	A study of hydride forming elements in the determination of As by hydride generation atomic absorption spectrometry and minimization of Sb and Se interference by I^{\pm} -hydroxyacids and KI. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1992, 47, 1165-1172.	2.9	22
59	Distribution and Biotransformation of Arsenic Species in Chicken Cardiac and Muscle Tissues. <i>Biological Trace Element Research</i> , 2004, 99, 129-144.	3.5	22
60	Urine clean-up method for determination of six arsenic species by LC-AAS involving microwave assisted oxidation and hydride generation. <i>Chromatographia</i> , 1996, 43, 507-512.	1.3	21
61	Lipid imaging for visualizing cilastatin amelioration of cisplatin-induced nephrotoxicity. <i>Journal of Lipid Research</i> , 2018, 59, 1561-1574.	4.2	21
62	Determination of fluoride in drinking water and sea water by aluminium monofluoride molecular absorption spectrometry using an electrothermal graphite furnace. <i>Analyst, The</i> , 1988, 113, 1109.	3.5	20
63	Determination of toxic and non-toxic arsenic species in urine by microwave assisted mineralization and hydride generation atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 1995, 120, 301-308.	5.0	19
64	Evaluation of arsenic species' protein binding in cardiovascular tissues by bidimensional chromatography with ICP-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 292-296.	3.0	19
65	Study of tungstate' protein interaction in human serum by LC'ICP-MS and MALDI-TOF. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 29-35.	3.7	18
66	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. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 507-512.	3.0	17
67	Evaluation of biological sample mineralisation methods for the determination of fluorine by graphite furnace molecular absorption spectrometry. <i>Analyst, The</i> , 1990, 115, 553-557.	3.5	16
68	Combining TBP-based rOFFGEL-IEF with FASP and nLC'ESI-LTQ-MS/MS for the analysis of cisplatin-binding proteins in rat kidney. <i>Talanta</i> , 2014, 120, 433-442.	5.5	16
69	Determination of Fluoride by Alf-MAS in N2O-C2H2 Flame: Application to Toothpaste. <i>Microchemical Journal</i> , 1993, 47, 399-403.	4.5	14
70	Modification of capillaries coupled to micro-flow nebulizers: a new strategy for on-line interference removal in inductively coupled plasma mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2000, 35, 891-896.	1.6	13
71	Mercury and organotin compounds monitoring in fresh and marine waters across Europe by Chemcatcher passive sampler. <i>International Journal of Environmental Analytical Chemistry</i> , 2011, 91, 1100-1116.	3.3	13
72	A shotgun approach for the identification of platinum' protein complexes. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2393-2403.	3.7	13

#	ARTICLE	IF	CITATIONS
73	On-line Chloride Interference Removal for Arsenic Determination in Waste Water and Urine by ICP-MS Using a Modified Capillary. <i>International Journal of Environmental Analytical Chemistry</i> , 2002, 82, 795-804.	3.3	11
74	Biospeciation of tungsten in the serum of diabetic and healthy rats treated with the antidiabetic agent sodium tungstate. <i>Talanta</i> , 2011, 84, 1011-1018.	5.5	11
75	TCEP-based rSDSâ€™PAGE AND nLCâ€™ESI-LTQ-MS/MS for oxaliplatin metalloproteomic analysis. <i>Talanta</i> , 2013, 116, 581-592.	5.5	11
76	Determination of fluoride in sea-water by molecular absorption spectrometry of aluminium monofluoride after removal cation and anion interferences. <i>Talanta</i> , 1990, 37, 719-724.	5.5	9
77	Bridging the Gap between Molecular and Elemental Mass Spectrometry: Higher Energy Collisional Dissociation (HCD) Revealing Elemental Information. <i>Analytical Chemistry</i> , 2015, 87, 1613-1621.	6.5	8
78	Determination of fluoride in complex liquid matrices by electrothermal atomic absorption spectrometry with in-furnace oxygen-assisted ashing. <i>Mikrochimica Acta</i> , 1993, 110, 103-110.	5.0	7
79	Fast on-line selenium determination in enriched yeast slurry by microwave digestionâ€™hydride generationâ€™atomic absorption spectroscopy. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1999, 34, 159-165.	0.1	7
80	Dual Internal Standards with Metals and Molecules for MALDI Imaging of Kidney Lipids. <i>Analytical Chemistry</i> , 2017, 89, 12727-12734.	6.5	6
81	Differences in binding kinetics, bond strength and adduct formation between Pt-based drugs and S- or N-donor groups: A comparative study using mass spectrometry techniques. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 132, 96-105.	4.0	5
82	Lipidomics Reveals Cisplatin-Induced Renal Lipid Alterations during Acute Kidney Injury and Their Attenuation by Cilastatin. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12521.	4.1	4
83	Evaluation of nitric-induced teflon degradation by spectrochemical fluoride analysis and scanning microscopy. <i>Fresenius' Journal of Analytical Chemistry</i> , 1993, 345, 524-526.	1.5	3
84	Thiol-free reducing agents in electrophoretic separations and FASP proteolytic digestions for the analysis of metal-binding proteins. <i>MethodsX</i> , 2014, 1, 175-180.	1.6	1
85	Release of Particulate and Acid Soluble Palladium from Catalytic Converters into the Environment. , 2006, , 25-38.		1
86	Determination of Palladium in Environmental Samples by ICP-MS after Preconcentration / Separation. , 2006, , 83-96.		0