

# Esperanza Garcia Ruiz

## List of Publications by Citations

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52  
papers

1,788  
citations

26  
h-index

41  
g-index

52  
ext. papers

1,883  
ext. citations

5.1  
avg. IF

4.6  
L-index

#	Paper	IF	Citations
52	Recent Advances in Electropolymerized Conducting Polymers in Amperometric Biosensors. <i>Mikrochimica Acta</i> , <b>2003</b> , 143, 93-111	5.8	146
51	In situ preparation of a cholesterol biosensor: entrapment of cholesterol oxidase in an overoxidized polypyrrole film electrodeposited in a flow system. <i>Analytica Chimica Acta</i> , <b>1999</b> , 385, 213-222	6.6	143
50	Amperometric cholesterol biosensors based on the electropolymerization of pyrrole and the electrocatalytic effect of Prussian-Blue layers helped with self-assembled monolayers. <i>Talanta</i> , <b>2004</b> , 64, 655-64	6.2	99
49	Comparison of biosensors based on entrapment of cholesterol oxidase and cholesterol esterase in electropolymerized films of polypyrrole and diamionaphthalene derivatives for amperometric determination of cholesterol. <i>Analytical and Bioanalytical Chemistry</i> , <b>2003</b> , 377, 273-80	4.4	84
48	Electropolymerization of pyrrole and immobilization of glucose oxidase in a flow system: influence of the operating conditions on analytical performance. <i>Biosensors and Bioelectronics</i> , <b>1998</b> , 13, 371-82	11.8	69
47	In situ preparation of overoxidized PPy/oPPD bilayer biosensors for the determination of glucose and cholesterol in serum. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 57, 219-226	8.5	64
46	Progress in the determination of metalloids and non-metals by means of high-resolution continuum source atomic or molecular absorption spectrometry. A critical review. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 2239-59	4.4	61
45	Laser ablation-inductively coupled plasma mass spectrometry in archaeometric research. <i>Mass Spectrometry Reviews</i> , <b>2010</b> , 29, 55-78	11	61
44	High-resolution continuum source atomic absorption spectrometry for the simultaneous or sequential monitoring of multiple lines. A critical review of current possibilities. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2013</b> , 88, 85-97	3.1	59
43	Characterization of cobalt pigments found in traditional Valencian ceramics by means of laser ablation-inductively coupled plasma mass spectrometry and portable X-ray fluorescence spectrometry. <i>Talanta</i> , <b>2008</b> , 74, 1271-80	6.2	53
42	High-resolution continuum source graphite furnace atomic absorption spectrometry: is it as good as it sounds? A critical review. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 399, 323-30	4.4	50
41	Rapid screening method for arsenic speciation by combining thin layer chromatography and laser ablation-inductively coupled plasma-dynamic reaction cell-mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2007</b> , 22, 1158	3.7	48
40	Development of a platinized and ferrocene-mediated cholesterol amperometric biosensor based on electropolymerization of polypyrrole in a flow system. <i>Analytical Sciences</i> , <b>2002</b> , 18, 537-42	1.7	47
39	Strategies for the improvement of an amperometric cholesterol biosensor based on electropolymerization in flow systems: use of charge-transfer mediators and platinization of the electrode. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2000</b> , 24, 51-63	3.5	41
38	Solid sampling in the determination of precious metals at ultratrace levels. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2007</b> , 26, 385-395	14.6	39
37	Solid sampling-graphite furnace atomic absorption spectrometry for the direct determination of silver at trace and ultratrace levels. <i>Analytica Chimica Acta</i> , <b>2006</b> , 571, 142-9	6.6	38
36	Laser ablation-inductively coupled plasma-dynamic reaction cell-mass spectrometry for the multi-element analysis of polymers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2005</b> , 60, 1472-1481	3.1	38

35	Dried matrix spots and clinical elemental analysis. Current status, difficulties, and opportunities. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2018</b> , 99, 75-87	14.6	36
34	Laser ablation-inductively coupled plasma mass spectrometry for the characterization of pigments in prehistoric rock art. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 8947-55	7.8	35
33	Comparison of the solid sampling techniques laser ablation-ICP-MS, glow discharge-MS and spark-OES for the determination of platinum group metals in Pb buttons obtained by fire assay of platiniferous ores. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2006</b> , 21, 899-909	3.7	34
32	Design of a Multilayer Cholesterol Amperometric Biosensor for Preparation and Use in Flow Systems. <i>Electroanalysis</i> , <b>2001</b> , 13, 229-235	3	34
31	Laser ablation-inductively coupled plasma-dynamic reaction cell-mass spectrometry (LA-ICP-DRC-MS) for the determination of Pt, Pd and Rh in Pb buttons obtained by fire assay of platiniferous ores. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2004</b> , 19, 632	3.7	33
30	Evaluation of solid sampling-electrothermal vaporization-inductively coupled plasma mass spectrometry and solid sampling-graphite furnace atomic absorption spectrometry for the direct determination of Cr in various materials using solution-based calibration approaches. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2001</b> , 16, 875	3.7	31
29	Solid sampling-graphite furnace atomic absorption spectrometry for Hg monitoring in soils. Performance as a quantitative and as a screening method. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2005</b> , 20, 1374	3.7	30
28	Minimally-invasive filter paper test in combination with solid sampling-graphite furnace atomic absorption spectrometry for Pb determination in whole blood. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2007</b> , 22, 1250	3.7	29
27	Three approaches to the development of selective bilayer amperometric biosensors for glucose by in situ electropolymerization. <i>Analyst, The</i> , <b>1999</b> , 124, 319-24	5	29
26	Design of an Interference-Free Cholesterol Amperometric Biosensor Based on the Electrosynthesis of Polymeric Films of Diaminonaphthalene Isomers. <i>Electroanalysis</i> , <b>2004</b> , 16, 497-504	3	26
25	Chlorine isotope determination via the monitoring of the AlCl molecule by high-resolution continuum source graphite furnace molecular absorption spectrometry: a case study. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2015</b> , 30, 1531-1540	3.7	25
24	Quo vadis high-resolution continuum source atomic/molecular absorption spectrometry?. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2019</b> , 34, 59-80	3.7	24
23	Solid sampling-graphite furnace atomic absorption spectrometry for palladium determination at trace and ultratrace levels. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2003</b> , 18, 1477	3.7	24
22	Solid sampling-electrothermal vaporization-inductively coupled plasma mass spectrometry for the direct determination of traces of iodine. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2005</b> , 20, 81	3.7	23
21	Laser ablation-inductively coupled plasma-dynamic reaction cell-mass spectrometry for the determination of platinum group metals and gold in NiS buttons obtained by fire assay of platiniferous ores. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2008</b> , 23, 1599	3.7	22
20	High-resolution continuum source graphite furnace atomic absorption spectrometry for the monitoring of Au nanoparticles. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2016</b> , 31, 2233-2241	3.7	22
19	Br isotope determination via the monitoring of CaBr transitions using high-resolution continuum source graphite furnace molecular absorption spectrometry. Potential for direct determination of Br in solid samples using isotope dilution. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2016</b> , 31, 1381-1390	3.7	20
18	Analysis of whole blood by ICP-MS equipped with a high temperature total sample consumption system. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2017</b> , 32, 78-87	3.7	19

17	Determination of chlorine via the CaCl molecule by high-resolution continuum source graphite furnace molecular absorption spectrometry and direct solid sample analysis. <i>Talanta</i> , <b>2017</b> , 162, 354-361	6.2	18
16	A simple dilute-and-shoot approach for the determination of ultra-trace levels of arsenic in biological fluids via ICP-MS using CH <sub>3</sub> F/He as a reaction gas. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2016</b> , 31, 245-251	3.7	16
15	Laser ablation-inductively coupled plasma mass spectrometry for the fast and direct characterization of antique glazed ceramics. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2005</b> , 20, 508	3.7	16
14	A POLYMERIC BILAYER CONFIGURATION FOR A CHOLESTEROL AMPEROMETRIC BIOSENSOR BASED ON THE COMBINATION OF OVEROXIDIZED POLYPYRROLE AND A POLYNAPHTHALENE DERIVATIVE. <i>Analytical Letters</i> , <b>2002</b> , 35, 837-853	2.2	16
13	Breaking the boundaries in spectrometry. Molecular analysis with atomic spectrometric techniques. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2020</b> , 129, 115955	14.6	15
12	Solid sampling-graphite furnace atomic absorption spectrometry for the direct determination of Au in samples of various natures. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2005</b> , 20, 479-481	3.7	13
11	Surface plasmon resonance sensor as a detector in HPLC and specific lactate determination. <i>Sensors and Actuators A: Physical</i> , <b>1993</b> , 37-38, 582-586	3.9	9
10	Direct analysis of silica by means of solid sampling graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2012</b> , 71-72, 24-30	3.1	8
9	Application of the ligand vapour technique to the volatilization of unstable chelate compounds (particularly iron(III) trifluoroacetylacetonate) in AAS. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1990</b> , 338, 721-725		8
8	Cerebrospinal fluid elemental analysis by using a total sample consumption system operated at high temperature adapted to inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2017</b> , 32, 1916-1924	3.7	7
7	Industrial process sensor based on surface plasmon resonance (SPR) 1. Distillation process monitoring. <i>Sensors and Actuators A: Physical</i> , <b>1993</b> , 37-38, 221-225	3.9	7
6	Determination of chromium, cobalt, and iron by flame-atomic absorption spectrophotometry using volatilization of metal trifluoroacetyl acetonates. <i>Microchemical Journal</i> , <b>1990</b> , 42, 103-109	4.8	7
5	Energy dispersive X-ray fluorescence spectrometry for the direct multi-element analysis of dried blood spots. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2018</b> , 139, 13-19	3.1	7
4	Living in a transient world: ICP-MS reinvented via time-resolved analysis for monitoring single events. <i>Chemical Science</i> ,	9.4	5
3	Introducing multi-energy ratios as an alternative to multi-energy calibration for Br determination via high-resolution continuum source graphite furnace molecular absorption spectrometry. A case study. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2020</b> , 35, 2606-2619	3.7	0
2	Laser Ablation Inductively Coupled Plasma Mass Spectrometry for the Investigation of Archaeological Samples <b>2012</b> , 859-883		
1	Green Analytical Atomic Spectrometry 199-219		