Esperanza Garcia Ruiz

List of Publications by Year in descending order

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52

all docs

50 2,059 27
papers citations h-index

52

docs citations

27 45
h-index g-index

52 1840
times ranked citing authors

233421

#	Article	IF	Citations
1	In situ preparation of a cholesterol biosensor: entrapment of cholesterol oxidase in an overoxidized polypyrrole film electrodeposited in a flow system. Analytica Chimica Acta, 1999, 385, 213-222.	5. 4	165
2	Recent Advances in Electropolymerized Conducting Polymers in Amperometric Biosensors. Mikrochimica Acta, 2003, 143, 93-111.	5.0	165
3	Amperometric cholesterol biosensors based on the electropolymerization of pyrrole and the electrocatalytic effect of Prussian-Blue layers helped with self-assembled monolayers. Talanta, 2004, 64, 655-664.	5.5	117
4	Comparison of biosensors based on entrapment of cholesterol oxidase and cholesterol esterase in electropolymerized films of polypyrrole and diaminonaphthalene derivatives for amperometric determination of cholesterol. Analytical and Bioanalytical Chemistry, 2003, 377, 273-280.	3.7	86
5	Electropolymerization of pyrrole and immobilization of glucose oxidase in a flow system: influence of the operating conditions on analytical performance. Biosensors and Bioelectronics, 1998, 13, 371-382.	10.1	77
6	Laser ablationâ€inductively coupled plasma mass spectrometry in archaeometric research. Mass Spectrometry Reviews, 2010, 29, 55-78.	5.4	77
7	In situ preparation of overoxidized PPy/oPPD bilayer biosensors for the determination of glucose and cholesterol in serum. Sensors and Actuators B: Chemical, 1999, 57, 219-226.	7.8	73
8	High-resolution continuum source atomic absorption spectrometry for the simultaneous or sequential monitoring of multiple lines. A critical review of current possibilities. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 88, 85-97.	2.9	65
9	Progress in the determination of metalloids and non-metals by means of high-resolution continuum source atomic or molecular absorption spectrometry. A critical review. Analytical and Bioanalytical Chemistry, 2014, 406, 2239-2259.	3.7	65
10	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. Talanta, 2008, 74, 1271-1280.	5 . 5	59
11	High-resolution continuum source graphite furnace atomic absorption spectrometry: Is it as good as it sounds? A critical review. Analytical and Bioanalytical Chemistry, 2011, 399, 323-330.	3.7	55
12	Rapid screening method for arsenic speciation by combining thin layer chromatography and laser ablation-inductively coupled plasma-dynamic reaction cell-mass spectrometry. Journal of Analytical Atomic Spectrometry, 2007, 22, 1158.	3.0	54
13	Development of a Platinized and Ferrocene-Mediated Cholesterol Amperometric Biosensor Based on Electropolymerization of Polypyrrole in a Flow System Analytical Sciences, 2002, 18, 537-542.	1.6	49
14	Dried matrix spots and clinical elemental analysis. Current status, difficulties, and opportunities. TrAC - Trends in Analytical Chemistry, 2018, 99, 75-87.	11.4	49
15	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. Journal of Pharmaceutical and Biomedical Analysis, 2000, 24, 51-63.	2.8	48
16	Laser ablation–inductively coupled plasma–dynamic reaction cell–mass spectrometry for the multi-element analysis of polymers. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1472-1481.	2.9	42
17	Solid sampling-graphite furnace atomic absorption spectrometry for the direct determination of silver at trace and ultratrace levels. Analytica Chimica Acta, 2006, 571, 142-149.	5.4	40
18	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. Journal of Analytical Atomic Spectrometry, 2006, 21, 899-909.	3.0	39

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19	Solid sampling in the determination of precious metals at ultratrace levels. TrAC - Trends in Analytical Chemistry, 2007, 26, 385-395.	11.4	39
20	Design of a Multilayer Cholesterol Amperometric Biosensorfor Preparation and Use in Flow Systems. Electroanalysis, 2001, 13, 229-235.	2.9	38
21	Laser Ablation-Inductively Coupled Plasma Mass Spectrometry for the Characterization of Pigments in Prehistoric Rock Art. Analytical Chemistry, 2007, 79, 8947-8955.	6.5	38
22	Three approaches to the development of selective bilayer amperometric biosensors for glucose by in situ electropolymerization. Analyst, The, 1999, 124, 319-324.	3.5	37
23	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. Journal of Analytical Atomic Spectrometry, 2004, 19, 958.	3.0	35
24	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. Journal of Analytical Atomic Spectrometry, 2004, 19, 632.	3.0	35
25	Living in a transient world: ICP-MS reinvented <i>via</i> time-resolved analysis for monitoring single events. Chemical Science, 2022, 13, 4436-4473.	7.4	35
26	Solid sampling-graphite furnace atomic absorption spectrometry for Hg monitoring in soils. Performance as a quantitative and as a screening method. Journal of Analytical Atomic Spectrometry, 2005, 20, 1374.	3.0	33
27	Minimally-invasive filter paper test in combination with solid sampling-graphite furnace atomic absorption spectrometry for Pb determination in whole blood. Journal of Analytical Atomic Spectrometry, 2007, 22, 1250.	3.0	31
28	<i>Quo vadis</i> high-resolution continuum source atomic/molecular absorption spectrometry?. Journal of Analytical Atomic Spectrometry, 2019, 34, 59-80.	3.0	30
29	Chlorine isotope determination via the monitoring of the AlCl molecule by high-resolution continuum source graphite furnace molecular absorption spectrometry – a case study. Journal of Analytical Atomic Spectrometry, 2015, 30, 1531-1540.	3.0	27
30	Solid sampling-graphite furnace atomic absorption spectrometry for palladium determination at trace and ultratrace levels. Journal of Analytical Atomic Spectrometry, 2003, 18, 1477.	3.0	26
31	Design of an Interference-Free Cholesterol Amperometric Biosensor Based on the Electrosynthesis of Polymeric Films of Diaminonaphthalene Isomers. Electroanalysis, 2004, 16, 497-504.	2.9	26
32	Solid sampling-electrothermal vaporization-inductively coupled plasma mass spectrometry for the direct determination of traces of iodine. Journal of Analytical Atomic Spectrometry, 2005, 20, 81.	3.0	26
33	High-resolution continuum source graphite furnace atomic absorption spectrometry for the monitoring of Au nanoparticles. Journal of Analytical Atomic Spectrometry, 2016, 31, 2233-2241.	3.0	25
34	Analysis of whole blood by ICP-MS equipped with a high temperature total sample consumption system. Journal of Analytical Atomic Spectrometry, 2017, 32, 78-87.	3.0	25
35	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. Journal of Analytical Atomic Spectrometry, 2008, 23, 1599.	3.0	24
36	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. Journal of Analytical Atomic Spectrometry, 2016, 31, 1381-1390.	3.0	24

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37	Breaking the boundaries in spectrometry. Molecular analysis with atomic spectrometric techniques. TrAC - Trends in Analytical Chemistry, 2020, 129, 115955.	11.4	23
38	Laser ablation-inductively coupled plasma mass spectrometry for the fast and direct characterization of antique glazed ceramics. Journal of Analytical Atomic Spectrometry, 2005, 20, 508.	3.0	20
39	A POLYMERIC BILAYER CONFIGURATION FOR A CHOLESTEROL AMPEROMETRIC BIOSENSOR BASED ON THE COMBINATION OF OVEROXIDIZED POLYPYRROLE AND A POLYNAPHTHALENE DERIVATIVE. Analytical Letters, 2002, 35, 837-853.	1.8	19
40	Determination of chlorine via the CaCl molecule by high-resolution continuum source graphite furnace molecular absorption spectrometry and direct solid sample analysis. Talanta, 2017, 162, 354-361.	5 . 5	18
41	A simple dilute-and-shoot approach for the determination of ultra-trace levels of arsenic in biological fluids via ICP-MS using CH ₃ F/He as a reaction gas. Journal of Analytical Atomic Spectrometry, 2016, 31, 245-251.	3.0	17
42	Solid sampling-graphite furnace atomic absorption spectrometry for the direct determination of Au in samples of various natures. Journal of Analytical Atomic Spectrometry, 2005, 20, 479-481.	3.0	14
43	Application of the ligand vapour technique to the volatilization of unstable chelate compounds (particularly iron(III) trifluoroacetylacetonate) in AAS. Fresenius' Journal of Analytical Chemistry, 1990, 338, 721-725.	1.5	11
44	Industrial process sensor based on surface plasmon resonance (SPR) 1. Distillation process monitoring. Sensors and Actuators A: Physical, 1993, 37-38, 221-225.	4.1	11
45	Determination of chromium, cobalt, and iron by flame-atomic absorption spectrophotometry using volatilization of metal trifluoroacetyl acetonates. Microchemical Journal, 1990, 42, 103-109.	4.5	10
46	Surface plasmon resonance sensor as a detector in HPLC and specific lactate determination. Sensors and Actuators A: Physical, 1993, 37-38, 582-586.	4.1	9
47	Cerebrospinal fluid elemental analysis by using a total sample consumption system operated at high temperature adapted to inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2017, 32, 1916-1924.	3.0	9
48	Energy dispersive X-ray fluorescence spectrometry for the direct multi-element analysis of dried blood spots. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 139, 13-19.	2.9	9
49	Direct analysis of silica by means of solid sampling graphite furnace atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 71-72, 24-30.	2.9	8
50	Introducing multi-energy ratios as an alternative to multi-energy calibration for Br determination <i>via</i> i> high-resolution continuum source graphite furnace molecular absorption spectrometry. A case study. Journal of Analytical Atomic Spectrometry, 2020, 35, 2606-2619.	3.0	1