

Nã°ria Serrano

List of Publications by Year in descending order

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85
papers

1,949
citations

236925

25
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289244

40
g-index

86
all docs

86
docs citations

86
times ranked

1646
citing authors

#	ARTICLE	IF	CITATIONS
1	Voltammetric determination of metal ions beyond mercury electrodes. A review. <i>Analytica Chimica Acta</i> , 2017, 990, 11-53.	5.4	131
2	Coating methods, modifiers and applications of bismuth screen-printed electrodes. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 46, 15-29.	11.4	111
3	Crown ether-modified electrodes for the simultaneous stripping voltammetric determination of Cd(II), Pb(II) and Cu(II). <i>Talanta</i> , 2015, 138, 130-137.	5.5	98
4	Antimony film screen-printed carbon electrode for stripping analysis of Cd(II), Pb(II), and Cu(II) in natural samples. <i>Analytica Chimica Acta</i> , 2015, 855, 34-40.	5.4	95
5	Antimony-based electrodes for analytical determinations. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 77, 203-213.	11.4	84
6	New approaches to antimony film screen-printed electrodes using carbon-based nanomaterials substrates. <i>Analytica Chimica Acta</i> , 2016, 916, 17-23.	5.4	66
7	Glutathione modified screen-printed carbon nanofiber electrode for the voltammetric determination of metal ions in natural samples. <i>Talanta</i> , 2016, 155, 8-13.	5.5	64
8	Sputtered bismuth screen-printed electrode: A promising alternative to other bismuth modifications in the voltammetric determination of Cd(II) and Pb(II) ions in groundwater. <i>Talanta</i> , 2014, 119, 348-352.	5.5	51
9	Commercial Screen-Printed Electrodes Based on Carbon Nanomaterials for a Fast and Cost-Effective Voltammetric Determination of Paracetamol, Ibuprofen and Caffeine in Water Samples. <i>Sensors</i> , 2019, 19, 4039.	3.8	47
10	Ex situ Deposited Bismuth Film on Screen-Printed Carbon Electrode: A Disposable Device for Stripping Voltammetry of Heavy Metal Ions. <i>Electroanalysis</i> , 2010, 22, 1460-1467.	2.9	46
11	Green Synthesis of Ag Nanoparticles Using Grape Stalk Waste Extract for the Modification of Screen-Printed Electrodes. <i>Nanomaterials</i> , 2018, 8, 946.	4.1	46
12	A screen-printed voltammetric electronic tongue for the analysis of complex mixtures of metal ions. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 393-401.	7.8	45
13	Array of peptide-modified electrodes for the simultaneous determination of Pb(II), Cd(II) and Zn(II). <i>Talanta</i> , 2014, 125, 159-166.	5.5	44
14	Ag Nanoparticles Drop-Casting Modification of Screen-Printed Electrodes for the Simultaneous Voltammetric Determination of Cu(II) and Pb(II). <i>Sensors</i> , 2017, 17, 1458.	3.8	44
15	Stripping analysis of heavy metals in tap water using the bismuth film electrode. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 1365-1369.	3.7	42
16	Penicillamine-modified sensor for the voltammetric determination of Cd(II) and Pb(II) ions in natural samples. <i>Talanta</i> , 2015, 144, 569-573.	5.5	38
17	Stripping Chronopotentiometry in Environmental Analysis. <i>Electroanalysis</i> , 2007, 19, 2039-2049.	2.9	36
18	Adsorptive accumulation in constant current stripping chronopotentiometry as an alternative for the electrochemical study of metal complexation by thiol-containing peptides. <i>Journal of Electroanalytical Chemistry</i> , 2006, 591, 105-117.	3.8	35

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19	Determination of Sb(III) using an ex-situ bismuth screen-printed carbon electrode by adsorptive stripping voltammetry. <i>Talanta</i> , 2016, 155, 21-27.	5.5	33
20	Simultaneous Voltammetric Determination of Heavy Metals by Use of Crown Etherâ€modified Electrodes and Chemometrics. <i>Electroanalysis</i> , 2016, 28, 663-670.	2.9	32
21	Characterization and classification of Spanish paprika (<i>Capsicum annum L.</i>) by liquid chromatography coupled to electrochemical detection with screen-printed carbon-based nanomaterials electrodes. <i>Talanta</i> , 2018, 189, 296-301.	5.5	30
22	Simultaneous determination of Tl(I) and In(III) using a voltammetric sensor array. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 18-24.	7.8	29
23	Comparison of constant-current stripping chronopotentiometry and anodic stripping voltammetry in metal speciation studies using mercury drop and film electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2003, 560, 105-116.	3.8	28
24	Voltammetric Electronic Tongues in Food Analysis. <i>Sensors</i> , 2019, 19, 4261.	3.8	28
25	Bismuth film electrodes for the study of metal thiolate complexation: An alternative to mercury electrodes. <i>Talanta</i> , 2009, 78, 1017-1022.	5.5	26
26	Enhanced voltammetric determination of metal ions by using a bismuthene-modified screen-printed electrode. <i>Electrochimica Acta</i> , 2020, 362, 137144.	5.2	25
27	Phosphorene and other layered pnictogens as a new source of 2D materials for electrochemical sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 139, 116249.	11.4	25
28	Recent contributions to the study of phytochelatin with an analytical approach. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 73, 129-145.	11.4	23
29	Signal splitting in the stripping analysis of heavy metals using bismuth film electrodes: Influence of concentration range and deposition parameters. <i>Electrochimica Acta</i> , 2008, 53, 6616-6622.	5.2	22
30	Selenocystine modified screen-printed electrode as an alternative sensor for the voltammetric determination of metal ions. <i>Talanta</i> , 2017, 175, 501-506.	5.5	21
31	Determination of HPLC-UV Fingerprints of Spanish Paprika (<i>Capsicum annum L.</i>) for Its Classification by Linear Discriminant Analysis. <i>Sensors</i> , 2018, 18, 4479.	3.8	20
32	<i>Exâ€situ</i> Antimony Screenâ€printed Carbon Electrode for Voltammetric Determination of Ni(II)â€ions in Wastewater. <i>Electroanalysis</i> , 2016, 28, 640-644.	2.9	19
33	Elimination Procedure as a Novel and Promising Mathematical Approach in Voltammetric Methods. <i>Electroanalysis</i> , 2010, 22, 2071-2080.	2.9	18
34	Determination of Pd(II) using an antimony film coated on a screen-printed electrode by adsorptive stripping voltammetry. <i>Talanta</i> , 2017, 167, 1-7.	5.5	18
35	Elimination Voltammetry of Miniaturized Mercury Drop Electrodes. <i>Electroanalysis</i> , 2010, 22, 1873-1880.	2.9	17
36	Screen-printed electrodes modified with green-synthesized gold nanoparticles for the electrochemical determination of aminothiols. <i>Journal of Electroanalytical Chemistry</i> , 2019, 847, 113184.	3.8	17

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37	Dimethylglyoxime modified screen-printed electrodes for nickel determination. <i>Journal of Electroanalytical Chemistry</i> , 2019, 839, 83-89.	3.8	17
38	Electroanalysis from the past to the twenty-first century: challenges and perspectives. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2653-2661.	2.5	17
39	Determination of Trace Levels of Nickel(II) by Adsorptive Stripping Voltammetry Using a Disposable and Low-Cost Carbon Screen-Printed Electrode. <i>Chemosensors</i> , 2021, 9, 94.	3.6	17
40	Constant Current Stripping Chronopotentiometry for the Study of Adsorbing Inert and Electrochemically Nonreversible Metal Complexes at Low Concentrations: Application to Cd and Zn Metallothioneins. <i>Electroanalysis</i> , 2006, 18, 169-176.	2.9	16
41	Bismuth Film Electrode in Metal Complexation Studies: Stripping Analysis of the Pb(II) and Cd(II) Binding with Phthalate. <i>Electroanalysis</i> , 2009, 21, 431-438.	2.9	16
42	Voltammetric Determination of Pb(II) and Cd(II) Ions in Well Water Using a Sputtered Bismuth Screen-Printed Electrode. <i>Electroanalysis</i> , 2014, 26, 2168-2172.	2.9	15
43	Authentication of paprika using HPLC-UV fingerprints. <i>LWT - Food Science and Technology</i> , 2020, 124, 109153.	5.2	15
44	Commercial Screen-Printed Gold Electrodes for the Detection and Quantification of Amino thiols in Human Plasma by Liquid Chromatography with Electrochemical Detection. <i>Electroanalysis</i> , 2014, 26, 581-587.	2.9	14
45	First application of carbon-based screen-printed electrodes for the voltammetric determination of the organic UV filters oxybenzone and octocrylene. <i>Talanta</i> , 2019, 196, 381-388.	5.5	14
46	Can bismuth film screen printed carbon electrodes be used to study complexation?. <i>Talanta</i> , 2013, 107, 356-360.	5.5	13
47	Direct As(V) Determination Using Screen-Printed Electrodes Modified with Silver Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 1280.	4.1	13
48	Substitution of Mercury Electrodes by Bismuth-Coated Screen-Printed Electrodes in the Determination of Quinine in Tonic Water. <i>Journal of Chemical Education</i> , 2013, 90, 1681-1684.	2.3	12
49	Discrimination of Beers by Cyclic Voltammetry Using a Single Carbon Screen-Printed Electrode. <i>Electroanalysis</i> , 2021, 33, 864-872.	2.9	11
50	Oxidation of 6-Benzylaminopurine-Copper(I) Complex on Pencil Graphite Electrode. <i>Electroanalysis</i> , 2012, 24, 955-960.	2.9	10
51	Multivariate standard addition for the analysis of overlapping voltammetric signals in the presence of matrix effects: Application to the simultaneous determination of hydroquinone and catechol. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 178, 32-38.	3.5	10
52	New discrimination tools for harvest year and varieties of white wines based on hydrophilic interaction liquid chromatography with amperometric detection. <i>Talanta</i> , 2019, 201, 104-110.	5.5	10
53	Electroanalysis of the binding and adsorption of Hg ²⁺ with seleno aminoacids by differential pulse and elimination voltammetry at the Au-disk electrode. <i>Electrochimica Acta</i> , 2011, 56, 5988-5992.	5.2	9
54	Parametric Signal Fitting by Gaussian Peak Adjustment: implementation of 2D transversal constraints and its application for the determination of pKa and complexation constants by differential pulse voltammetry. <i>Analyst</i> , The, 2013, 138, 2171.	3.5	9

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55	Parametric signal fitting of highly asymmetric voltammograms by using the exponentially modified Gaussian (EMG) function. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 152, 80-87.	3.5	9
56	Voltammetric Determination of Anti-Hypertensive Drug Hydrochlorothiazide Using Screen-Printed Electrodes Modified with L-Glutamic Acid. <i>Chemosensors</i> , 2017, 5, 25.	3.6	9
57	Expanding the possibilities of electrografting modification of voltammetric sensors through two complementary strategies. <i>Electrochimica Acta</i> , 2019, 319, 878-884.	5.2	9
58	Carbon-stabilized porous silicon as novel voltammetric sensor platforms. <i>Electrochimica Acta</i> , 2021, 377, 138077.	5.2	9
59	Antimony nanomaterials modified screen-printed electrodes for the voltammetric determination of metal ions. <i>Electrochimica Acta</i> , 2022, 425, 140690.	5.2	9
60	A Voltammetric Electronic Tongue Based on Commercial Screen-Printed Electrodes for the Analysis of Aminothiols by Differential Pulse Voltammetry. <i>Electroanalysis</i> , 2017, 29, 1559-1565.	2.9	8
61	A new multivariate standard addition strategy for stripping voltammetric electronic tongues: Application to the determination of Tl(I) and In(III) in samples with complex matrices. <i>Talanta</i> , 2019, 192, 147-153.	5.5	8
62	Simultaneous determination of iron and copper using screen-printed carbon electrodes by adsorptive stripping voltammetry with o-phenanthroline. <i>Microchemical Journal</i> , 2022, 179, 107597.	4.5	8
63	Acid-Base Equilibrium of 6-Benzylaminopurine and Its 4-Chloro and 4-Methoxy Derivatives in Water-Ethanol Solutions Studied by Voltammetry and Spectrophotometry. <i>Electroanalysis</i> , 2011, 23, 2217-2225.	2.9	7
64	Integration of Commercial Screen-Printed Electrodes into a Voltammetric Electronic Tongue for the Analysis of Aminothiols. <i>Electroanalysis</i> , 2016, 28, 1570-1577.	2.9	7
65	MCR-ALS of voltammetric data for the study of environmentally relevant substances. <i>Microchemical Journal</i> , 2020, 158, 105177.	4.5	7
66	A Chemically-Bound Glutathione Sensor Bioinspired by the Defense of Organisms against Heavy Metal Contamination: Optimization of the Immobilization Conditions. <i>Chemosensors</i> , 2017, 5, 12.	3.6	6
67	Screen-Printed Electrodes for the Voltammetric Sensing of Benzotriazoles in Water. <i>Sensors</i> , 2020, 20, 1839.	3.8	6
68	Voltammetric Determination of Active Pharmaceutical Ingredients Using Screen-Printed Electrodes. <i>Chemosensors</i> , 2022, 10, 95.	3.6	6
69	Free Zn ²⁺ determination in systems with Zn-Glutathione. <i>Journal of Electroanalytical Chemistry</i> , 2015, 756, 207-211.	3.8	5
70	Mercury Films on Commercial Carbon Screen-Printed Devices for the Analysis of Heavy Metal Ions: a Critical Evaluation. <i>Electroanalysis</i> , 2015, 27, 1345-1349.	2.9	5
71	New Approach to Multivariate Standard Addition Based on Multivariate Curve Resolution by Alternating Least-Squares: Application to Voltammetric Data. <i>Analytical Chemistry</i> , 2020, 92, 3396-3402.	6.5	5
72	Vibrating boron-doped diamond electrode: A new, durable and highly sensitive tool for the detection of cadmium. <i>Analytica Chimica Acta</i> , 2021, 1188, 339166.	5.4	5

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73	Stripping Chronopotentiometry and Stripping Voltammetry of Mixtures of Heavy Metal Ions Producing Close Signals: The Cd(II)-Pb(II)-Phthalate System. <i>Electroanalysis</i> , 2006, 18, 955-964.	2.9	4
74	Application of different chemometric strategies to voltammetric and UV-vis spectroscopic data to obtain a complexation model: study of the Cu(ii) binding with the phytohormone 6-benzylaminopurine. <i>Analyst</i> , The, 2012, 137, 5420.	3.5	4
75	A hybrid sensing system combining simultaneous optical and electrochemical measurements: Application to beer discrimination. <i>Talanta</i> , 2022, 241, 123273.	5.5	4
76	Template-Assisted Fabrication and Characterization of Nanostructured Copper Electrode for Adenine Detection. <i>Current Nanoscience</i> , 2011, 7, 984-994.	1.2	3
77	A Chemometric Survey about the Ability of Voltammetry to Discriminate Pharmaceutical Products from the Evolution of Signals as a Function of pH. <i>Chemosensors</i> , 2020, 8, 46.	3.6	3
78	Enhanced voltammetric performance of sensors based on oxidized 2D layered black phosphorus. <i>Talanta</i> , 2022, 238, 123036.	5.5	3
79	Considerations on the use of spectroelectrochemistry in reflection mode for quantitative analysis: Study of the Fe(III)/Fe(II) " orthophenanthroline system. <i>Microchemical Journal</i> , 2022, 181, 107678.	4.5	3
80	Suitability of Stripping Chronopotentiometry for Heavy Metal Speciation Using Hydrogen Peroxide as Oxidant: Application to the Cd(II)-EDTA-PMA System. <i>Electroanalysis</i> , 2005, 17, 2201-2207.	2.9	1
81	Potentiometric Stripping Analysis. , 2018, , 230-230.		1
82	Authentication of Spices and Herbs by Chromatographic Techniques. , 2021, , 157-185.		1
83	Selenocystine Modified Screen-Printed Carbon Electrode as an Alternative Sensor for the Voltammetric Determination of Metal Ions. <i>Proceedings (mdpi)</i> , 2017, 1, .	0.2	0
84	Screen-Printed Electrodes for the Determination of Iridium in Drugs. <i>Electroanalysis</i> , 2018, 30, 2925-2930.	2.9	0
85	Customized Screen-Printed Electrodes Based on Ag-Nanoseeds for Enhanced Electroanalytical Response towards Cd(II), Pb(II) and As(V) in Aqueous Samples. , 2021, 5, .		0