NÃºria Serrano

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/455114/publications.pdf

Version: 2024-02-01

85	1,949	236925	289244
papers	citations	25 h-index	40 g-index

86	86	86	1646
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced voltammetric performance of sensors based on oxidized 2D layered black phosphorus. Talanta, 2022, 238, 123036.	5.5	3
2	A hybrid sensing system combining simultaneous optical and electrochemical measurements: Application to beer discrimination. Talanta, 2022, 241, 123273.	5.5	4
3	Voltammetric Determination of Active Pharmaceutical Ingredients Using Screen-Printed Electrodes. Chemosensors, 2022, 10, 95.	3.6	6
4	Simultaneous determination of iron and copper using screen-printed carbon electrodes by adsorptive stripping voltammetry with o-phenanthroline. Microchemical Journal, 2022, 179, 107597.	4.5	8
5	Antimony nanomaterials modified screen-printed electrodes for the voltammetric determination of metal ions. Electrochimica Acta, 2022, 425, 140690.	5.2	9
6	Considerations on the use of spectroelectrochemistry in reflection mode for quantitative analysis: Study of the Fe(III)/Fe(II) â€“ orthophenanthroline system. Microchemical Journal, 2022, 181, 107678.	4.5	3
7	Discrimination of Beers by Cyclic Voltammetry Using a Single Carbon Screenâ€printed Electrode. Electroanalysis, 2021, 33, 864-872.	2.9	11
8	Determination of Trace Levels of Nickel(II) by Adsorptive Stripping Voltammetry Using a Disposable and Low-Cost Carbon Screen-Printed Electrode. Chemosensors, 2021, 9, 94.	3.6	17
9	Carbon-stabilized porous silicon as novel voltammetric sensor platforms. Electrochimica Acta, 2021, 377, 138077.	5.2	9
10	Phosphorene and other layered pnictogens as a new source of 2D materials for electrochemical sensors. TrAC - Trends in Analytical Chemistry, 2021, 139, 116249.	11.4	25
11	Authentication of Spices and Herbs by Chromatographic Techniques. , 2021, , 157-185.		1
12	Vibrating boron-doped diamond electrode: A new, durable and highly sensitive tool for the detection of cadmium. Analytica Chimica Acta, 2021, 1188, 339166.	5.4	5
13	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
14	Enhanced voltammetric determination of metal ions by using a bismuthene-modified screen-printed electrode. Electrochimica Acta, 2020, 362, 137144.	5.2	25
15	Direct As(V) Determination Using Screen-Printed Electrodes Modified with Silver Nanoparticles. Nanomaterials, 2020, 10, 1280.	4.1	13
16	A Chemometric Survey about the Ability of Voltammetry to Discriminate Pharmaceutical Products from the Evolution of Signals as a Function of pH. Chemosensors, 2020, 8, 46.	3.6	3
17	MCR-ALS of voltammetric data for the study of environmentally relevant substances. Microchemical Journal, 2020, 158, 105177.	4.5	7
18	Electroanalysis from the past to the twenty-first century: challenges and perspectives. Journal of Solid State Electrochemistry, 2020, 24, 2653-2661.	2.5	17

#	Article	IF	Citations
19	Authentication of paprika using HPLC-UV fingerprints. LWT - Food Science and Technology, 2020, 124, 109153.	5.2	15
20	New Approach to Multivariate Standard Addition Based on Multivariate Curve Resolution by Alternating Least-Squares: Application to Voltammetric Data. Analytical Chemistry, 2020, 92, 3396-3402.	6.5	5
21	Screen-Printed Electrodes for the Voltammetric Sensing of Benzotriazoles in Water. Sensors, 2020, 20, 1839.	3.8	6
22	Expanding the possibilities of electrografting modification of voltammetric sensors through two complementary strategies. Electrochimica Acta, 2019, 319, 878-884.	5.2	9
23	Voltammetric Electronic Tongues in Food Analysis. Sensors, 2019, 19, 4261.	3.8	28
24	Commercial Screen-Printed Electrodes Based on Carbon Nanomaterials for a Fast and Cost-Effective Voltammetric Determination of Paracetamol, Ibuprofen and Caffeine in Water Samples. Sensors, 2019, 19, 4039.	3.8	47
25	Screen-printed electrodes modified with green-synthesized gold nanoparticles for the electrochemical determination of aminothiols. Journal of Electroanalytical Chemistry, 2019, 847, 113184.	3.8	17
26	New discrimination tools for harvest year and varieties of white wines based on hydrophilic interaction liquid chromatography with amperometric detection. Talanta, 2019, 201, 104-110.	5.5	10
27	Dimethylglyoxime modified screen-printed electrodes for nickel determination. Journal of Electroanalytical Chemistry, 2019, 839, 83-89.	3.8	17
28	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. Talanta, 2019, 192, 147-153.	5.5	8
29	First application of carbon-based screen-printed electrodes for the voltammetric determination of the organic UV filters oxybenzone and octocrylene. Talanta, 2019, 196, 381-388.	5.5	14
30	Potentiometric Stripping Analysis. , 2018, , 230-230.		1
31	Green Synthesis of Ag Nanoparticles Using Grape Stalk Waste Extract for the Modification of Screen-Printed Electrodes. Nanomaterials, 2018, 8, 946.	4.1	46
32	Determination of HPLC-UV Fingerprints of Spanish Paprika (Capsicum annuum L.) for Its Classification by Linear Discriminant Analysis. Sensors, 2018, 18, 4479.	3.8	20
33	Screenâ€printed Electrodes for the Determination of Iridium in Drugs. Electroanalysis, 2018, 30, 2925-2930.	2.9	0
34	Characterization and classification of Spanish paprika (Capsicum annuum L.) by liquid chromatography coupled to electrochemical detection with screen-printed carbon-based nanomaterials electrodes. Talanta, 2018, 189, 296-301.	5.5	30
35	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. Chemometrics and Intelligent Laboratory Systems, 2018, 178, 32-38.	3.5	10
36	Simultaneous determination of Tl(I) and In(III) using a voltammetric sensor array. Sensors and Actuators B: Chemical, 2017, 245, 18-24.	7.8	29

#	Article	IF	Citations
37	Determination of Pd(II) using an antimony film coated on a screen-printed electrode by adsorptive stripping voltammetry. Talanta, 2017, 167, 1-7.	5.5	18
38	A screen-printed voltammetric electronic tongue for the analysis of complex mixtures of metal ions. Sensors and Actuators B: Chemical, 2017, 250, 393-401.	7.8	45
39	A Voltammetric Electronic Tongue Based on Commercial Screenâ€printed Electrodes for the Analysis of Aminothiols by Differential Pulse Voltammetry. Electroanalysis, 2017, 29, 1559-1565.	2.9	8
40	Selenocystine modified screen-printed electrode as an alternative sensor for the voltammetric determination of metal ions. Talanta, 2017, 175, 501-506.	5.5	21
41	Voltammetric determination of metal ions beyond mercury electrodes. A review. Analytica Chimica Acta, 2017, 990, 11-53.	5.4	131
42	Selenocystine Modified Screen-Printed Carbon Electrode as an Alternative Sensor for the Voltammetric Determination of Metal Ions. Proceedings (mdpi), 2017, 1, .	0.2	0
43	Ag Nanoparticles Drop-Casting Modification of Screen-Printed Electrodes for the Simultaneous Voltammetric Determination of Cu(II) and Pb(II). Sensors, 2017, 17, 1458.	3.8	44
44	A Chemically-Bound Glutathione Sensor Bioinspired by the Defense of Organisms against Heavy Metal Contamination: Optimization of the Immobilization Conditions. Chemosensors, 2017, 5, 12.	3.6	6
45	Voltammetric Determination of Anti-Hypertensive Drug Hydrochlorothiazide Using Screen-Printed Electrodes Modified with L-Glutamic Acid. Chemosensors, 2017, 5, 25.	3.6	9
46	Simultaneous Voltammetric Determination of Heavy Metals by Use of Crown Etherâ€modified Electrodes and Chemometrics. Electroanalysis, 2016, 28, 663-670.	2.9	32
47	Integration of Commercial Screenâ€printed Electrodes into a Voltammetric Electronic Tongue for the Analysis of Aminothiols. Electroanalysis, 2016, 28, 1570-1577.	2.9	7
48	Glutathione modified screen-printed carbon nanofiber electrode for the voltammetric determination of metal ions in natural samples. Talanta, 2016, 155, 8-13.	5.5	64
49	Determination of Sb(III) using an ex-situ bismuth screen-printed carbon electrode by adsorptive stripping voltammetry. Talanta, 2016, 155, 21-27.	5.5	33
50	Exâ€situ Antimony Screenâ€printed Carbon Electrode for Voltammetric Determination of Ni(II)â€ions in Wastewater. Electroanalysis, 2016, 28, 640-644.	2.9	19
51	Antimony- based electrodes for analytical determinations. TrAC - Trends in Analytical Chemistry, 2016, 77, 203-213.	11.4	84
52	Parametric signal fitting of highly asymmetric voltammograms by using the exponentially modified Gaussian (EMG) function. Chemometrics and Intelligent Laboratory Systems, 2016, 152, 80-87.	3.5	9
53	New approaches to antimony film screen-printed electrodes using carbon-based nanomaterials substrates. Analytica Chimica Acta, 2016, 916, 17-23.	5.4	66
54	Free Zn2+ determination in systems with Zn-Glutathione. Journal of Electroanalytical Chemistry, 2015, 756, 207-211.	3.8	5

#	Article	IF	Citations
55	Mercury Films on Commercial Carbon Screenâ€Printed Devices for the Analysis of Heavy Metal Ions: a Critical Evaluation. Electroanalysis, 2015, 27, 1345-1349.	2.9	5
56	Crown ether-modified electrodes for the simultaneous stripping voltammetric determination of Cd(II), Pb(II) and Cu(II). Talanta, 2015, 138, 130-137.	5.5	98
57	Penicillamine-modified sensor for the voltammetric determination of Cd(II) and Pb(II) ions in natural samples. Talanta, 2015, 144, 569-573.	5.5	38
58	Recent contributions to the study of phytochelatins with an analytical approach. TrAC - Trends in Analytical Chemistry, 2015, 73, 129-145.	11.4	23
59	Antimony film screen-printed carbon electrode for stripping analysis of Cd(II), Pb(II), and Cu(II) in natural samples. Analytica Chimica Acta, 2015, 855, 34-40.	5.4	95
60	Commercial Screenâ€Printed Gold Electrodes for the Detection and Quantification of Aminothiols in Human Plasma by Liquid Chromatography with Electrochemical Detection. Electroanalysis, 2014, 26, 581-587.	2.9	14
61	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. Talanta, 2014, 119, 348-352.	5.5	51
62	Voltammetric Determination of Pb(II) and Cd(II) Ions in Well Water Using a Sputtered Bismuth Screenâ€Printed Electrode. Electroanalysis, 2014, 26, 2168-2172.	2.9	15
63	Array of peptide-modified electrodes for the simultaneous determination of Pb(II), Cd(II) and Zn(II). Talanta, 2014, 125, 159-166.	5.5	44
64	Substitution of Mercury Electrodes by Bismuth-Coated Screen-Printed Electrodes in the Determination of Quinine in Tonic Water. Journal of Chemical Education, 2013, 90, 1681-1684.	2.3	12
65	Can bismuth film screen printed carbon electrodes be used to study complexation?. Talanta, 2013, 107, 356-360.	5.5	13
66	Coating methods, modifiers and applications of bismuth screen-printed electrodes. TrAC - Trends in Analytical Chemistry, 2013, 46, 15-29.	11.4	111
67	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. Analyst, The, 2013, 138, 2171.	3.5	9
68	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. Analyst, The, 2012, 137, 5420.	3.5	4
69	Oxidation of 6â€Benzylaminopurineâ€Copper(I) Complex on Pencil Graphite Electrode. Electroanalysis, 2012, 24, 955-960.	2.9	10
70	Acidâ€Base Equilibrium of 6â€Benzylaminopurine and Its 4â€Chloro and 4â€Methoxy Derivatives in Waterâ€Ethanol Solutions Studied by Voltammetry and Spectrophotometry. Electroanalysis, 2011, 23, 2217-2225.	2.9	7
71	Electroanalysis of the binding and adsorption of Hg2+ with seleno aminoacids by differential pulse and elimination voltammetry at the Au-disk electrode. Electrochimica Acta, 2011, 56, 5988-5992.	5.2	9
72	Template-Assisted Fabrication and Characterization of Nanostructured Copper Electrode for Adenine Detection. Current Nanoscience, 2011, 7, 984-994.	1.2	3

#	Article	IF	Citations
73	Stripping analysis of heavy metals in tap water using the bismuth film electrode. Analytical and Bioanalytical Chemistry, 2010, 396, 1365-1369.	3.7	42
74	Ex situ Deposited Bismuth Film on Screenâ€Printed Carbon Electrode: A Disposable Device for Stripping Voltammetry of Heavy Metal Ions. Electroanalysis, 2010, 22, 1460-1467.	2.9	46
75	Elimination Procedure as a Novel and Promising Mathematical Approach in Voltammetric Methods. Electroanalysis, 2010, 22, 2071-2080.	2.9	18
76	Elimination Voltammetry of Miniaturized Mercury Drop Electrodes. Electroanalysis, 2010, 22, 1873-1880.	2.9	17
77	Bismuth Film Electrode in Metal Complexation Studies: Stripping Analysis of the Pb(II)â€, Cd(II)â€, and Zn(II)â€Binding with Phthalate. Electroanalysis, 2009, 21, 431-438.	2.9	16
78	Bismuth film electrodes for the study of metal thiolate complexation: An alternative to mercury electrodes. Talanta, 2009, 78, 1017-1022.	5.5	26
79	Signal splitting in the stripping analysis of heavy metals using bismuth film electrodes: Influence of concentration range and deposition parameters. Electrochimica Acta, 2008, 53, 6616-6622.	5.2	22
80	Stripping Chronopotentiometry in Environmental Analysis. Electroanalysis, 2007, 19, 2039-2049.	2.9	36
81	Adsorptive accumulation in constant current stripping chronopotentiometry as an alternative for the electrochemical study of metal complexation by thiol-containing peptides. Journal of Electroanalytical Chemistry, 2006, 591, 105-117.	3.8	35
82	Constant Current Stripping Chronopotentiometry for the Study of Adsorbing Inert and Electrochemically Nonreversible Metal Complexes at Low Concentrations: Application to Cd and Zn Metallothioneins. Electroanalysis, 2006, 18, 169-176.	2.9	16
83	Stripping Chronopotentiometry and Stripping Voltammetry of Mixtures of Heavy Metal Ions Producing Close Signals: The Cd(II)-Pb(II)-Phthalate System. Electroanalysis, 2006, 18, 955-964.	2.9	4
84	Suitability of Stripping Chronopotentiometry for Heavy Metal Speciation Using Hydrogen Peroxide as Oxidant: Application to the Cd(II)-EDTA-PMA System. Electroanalysis, 2005, 17, 2201-2207.	2.9	1
85	Comparison of constant-current stripping chronopotentiometry and anodic stripping voltammetry in metal speciation studies using mercury drop and film electrodes. Journal of Electroanalytical Chemistry, 2003, 560, 105-116.	3.8	28