

AgustÃ-n Costa-GarcÃ-a

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

2,797
citations

136950

32
h-index

182427

51
g-index

71
all docs

71
docs citations

71
times ranked

3426
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical characterization of screen-printed and conventional carbon paste electrodes. <i>Electrochimica Acta</i> , 2008, 53, 3635-3642.	5.2	204
2	Electrochemical determination of mercury: A review. <i>Talanta</i> , 2013, 116, 1091-1104.	5.5	136
3	Manufacture and evaluation of carbon nanotube modified screen-printed electrodes as electrochemical tools. <i>Talanta</i> , 2007, 74, 427-433.	5.5	118
4	Simultaneous detection of free and total prostate specific antigen on a screen-printed electrochemical dual sensor. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2678-2683.	10.1	113
5	Recent Advances in Electrochemical Enzyme Immunoassays. <i>Electroanalysis</i> , 2005, 17, 1901-1918.	2.9	101
6	Alkaline Phosphatase-Catalyzed Silver Deposition for Electrochemical Detection. <i>Analytical Chemistry</i> , 2007, 79, 5272-5277.	6.5	99
7	Electrochemical (Bio)Sensors for Pesticides Detection Using Screen-Printed Electrodes. <i>Biosensors</i> , 2020, 10, 32.	4.7	86
8	Competitive electrochemical immunosensor for amyloid-beta 1-42 detection based on gold nanostructured Screen-Printed Carbon Electrodes. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 567-571.	7.8	83
9	Voltammetric immunosensor for the simultaneous analysis of the breast cancer biomarkers CA 15-3 and HER2-ECD. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 918-925.	7.8	70
10	Paper-based maskless enzymatic sensor for glucose determination combining ink and wire electrodes. <i>Biosensors and Bioelectronics</i> , 2017, 93, 40-45.	10.1	69
11	Genosensor for SARS Virus Detection Based on Gold Nanostructured Screen-Printed Carbon Electrodes. <i>Electroanalysis</i> , 2009, 21, 379-385.	2.9	66
12	Screen-Printed Electrochemical Immunosensors for the Detection of Cancer and Cardiovascular Biomarkers. <i>Electroanalysis</i> , 2016, 28, 1700-1715.	2.9	66
13	Use of nanohybrid materials as electrochemical transducers for mercury sensors. <i>Sensors and Actuators B: Chemical</i> , 2012, 165, 143-150.	7.8	64
14	Electrochemical immunosensor for anti-tissue transglutaminase antibodies based on the in situ detection of quantum dots. <i>Talanta</i> , 2014, 130, 598-602.	5.5	64
15	Celiac disease detection using a transglutaminase electrochemical immunosensor fabricated on nanohybrid screen-printed carbon electrodes. <i>Biosensors and Bioelectronics</i> , 2012, 31, 95-100.	10.1	59
16	Mercury determination in urine samples by gold nanostructured screen-printed carbon electrodes after vortex-assisted ionic liquid dispersive liquid-liquid microextraction. <i>Analytica Chimica Acta</i> , 2016, 915, 49-55.	5.4	57
17	In situ electrochemical generation of gold nanostructured screen-printed carbon electrodes. Application to the detection of lead underpotential deposition. <i>Electrochimica Acta</i> , 2009, 54, 4801-4808.	5.2	56
18	Electrochemical characterization of different screen-printed gold electrodes. <i>Electrochimica Acta</i> , 2008, 53, 3242-3249.	5.2	53

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19	Recent advances in the electrochemical detection of mercury. <i>Current Opinion in Electrochemistry</i> , 2017, 3, 91-96.	4.8	53
20	Multiplexed electrochemical immunosensor for detection of celiac disease serological markers. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 33-39.	7.8	49
21	Multiwalled carbon nanotube modified screen-printed electrodes for the detection of p-aminophenol: Optimisation and application in alkaline phosphatase-based assays. <i>Analytica Chimica Acta</i> , 2008, 615, 30-38.	5.4	48
22	Direct competitive immunosensor for Imidacloprid pesticide detection on gold nanoparticle-modified electrodes. <i>Talanta</i> , 2020, 209, 120465.	5.5	48
23	Electrogeneration of Gold Nanoparticles on Porous-Carbon Paper-Based Electrodes and Application to Inorganic Arsenic Analysis in White Wines by Chronoamperometric Stripping. <i>Analytical Chemistry</i> , 2017, 89, 6415-6423.	6.5	47
24	Paper-based electrochemical transducer modified with nanomaterials for mercury determination in environmental waters. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 87-92.	7.8	47
25	Genosensor for detection of four pneumoniae bacteria using gold nanostructured screen-printed carbon electrodes as transducers. <i>Sensors and Actuators B: Chemical</i> , 2010, 149, 329-335.	7.8	46
26	Copper-modified titanium phosphate nanoparticles as electrocatalyst for glucose detection. <i>Electrochimica Acta</i> , 2017, 229, 102-111.	5.2	42
27	Pin-based electrochemical glucose sensor with multiplexing possibilities. <i>Biosensors and Bioelectronics</i> , 2017, 88, 34-40.	10.1	41
28	Competitive electrochemical immunosensor for the detection of unfolded p53 protein in blood as biomarker for Alzheimer's disease. <i>Analytica Chimica Acta</i> , 2020, 1093, 28-34.	5.4	40
29	Screen-printed electrode based electrochemical detector coupled with ionic liquid dispersive liquid-liquid microextraction and microvolume back-extraction for determination of mercury in water samples. <i>Talanta</i> , 2015, 135, 34-40.	5.5	38
30	Bifunctional Au@Pt/Au core@shell Nanoparticles As Novel Electrocatalytic Tags in Immunosensing: Application for Alzheimer's Disease Biomarker Detection. <i>Analytical Chemistry</i> , 2020, 92, 7209-7217.	6.5	38
31	A monoclonal antibody-based immunosensor for the electrochemical detection of imidacloprid pesticide. <i>Analyst</i> , 2019, 144, 2936-2941.	3.5	35
32	Galvanostatic electrodeposition of copper nanoparticles on screen-printed carbon electrodes and their application for reducing sugars determination. <i>Talanta</i> , 2017, 175, 108-113.	5.5	34
33	Carbon nanotubes (CNTs)-based electroanalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 293-298.	3.7	33
34	Correlative Voltammetric Microscopy: Structure-Activity Relationships in the Microscopic Electrochemical Behavior of Screen Printed Carbon Electrodes. <i>ACS Sensors</i> , 2019, 4, 2173-2180.	7.8	33
35	Integration of gold-sputtered electrofluidic paper on wire-included analytical platforms for glucose biosensing. <i>Biosensors and Bioelectronics</i> , 2017, 91, 824-832.	10.1	32
36	Nanoparticles as Emerging Labels in Electrochemical Immunosensors. <i>Sensors</i> , 2019, 19, 5137.	3.8	32

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37	In situ gold-nanoparticle electrogeneration on gold films deposited on paper for non-enzymatic electrochemical determination of glucose. <i>Talanta</i> , 2018, 178, 160-165.	5.5	29
38	Voltammetric immunosensor for the diagnosis of celiac disease based on the quantification of anti-gliadin antibodies. <i>Sensors and Actuators B: Chemical</i> , 2012, 163, 253-259.	7.8	28
39	Biosensor array based on the in situ detection of quantum dots as electrochemical label. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 184-189.	7.8	28
40	Towards a blocking-free electrochemical immunosensing strategy for anti-transglutaminase antibodies using screen-printed electrodes. <i>Bioelectrochemistry</i> , 2015, 105, 88-94.	4.6	28
41	Electrochemical Study and Applications of Selective Electrodeposition of Silver on Quantum Dots. <i>Analytical Chemistry</i> , 2016, 88, 3739-3746.	6.5	27
42	Paper-Based Working Electrodes Coated with Mercury or Bismuth Films for Heavy Metals Determination. <i>Biosensors</i> , 2020, 10, 52.	4.7	27
43	Celiac disease diagnosis and gluten-free food analytical control. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 1743-1753.	3.7	26
44	Bioelectroanalysis in a Drop: Construction of a Glucose Biosensor. <i>Journal of Chemical Education</i> , 2017, 94, 806-812.	2.3	23
45	Lead Sensor Using Gold Nanostructured Screen-Printed Carbon Electrodes as Transducers. <i>Electroanalysis</i> , 2009, 21, 925-930.	2.9	21
46	Nafion® modified-screen printed gold electrodes and their carbon nanostructuring for electrochemical sensors applications. <i>Talanta</i> , 2013, 107, 376-381.	5.5	20
47	Enhanced detection of the potential electroactive label methylene blue by electrode nanostructuring with carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 129-136.	7.8	19
48	Voltammetric determination of size and particle concentration of Cd-based quantum dots. <i>Electrochimica Acta</i> , 2015, 166, 100-106.	5.2	19
49	Paper-based electrodes modified with cobalt phthalocyanine colloid for the determination of hydrogen peroxide and glucose. <i>Analyst</i> , 2020, 145, 2716-2724.	3.5	18
50	An electrochemical deamidated gliadin antibody immunosensor for celiac disease clinical diagnosis. <i>Analyst</i> , 2013, 138, 1956.	3.5	17
51	Comparative Study of Screen-Printed Electrodes Modified with Graphene Oxides Reduced by a Constant Current. <i>Journal of the Electrochemical Society</i> , 2015, 162, B282-B290.	2.9	17
52	Electrodeposition of nickel nanoflowers on screen-printed electrodes and their application to non-enzymatic determination of sugars. <i>RSC Advances</i> , 2016, 6, 83748-83757.	3.6	16
53	Electrocatalytic Determination of Colloidal Gold Particles Using a Carbon Paste Electrode Pretreated in Cyanide Media. <i>Electroanalysis</i> , 2000, 12, 1461-1466.	2.9	15
54	Enhanced detection of quantum dots by the magnetohydrodynamic effect for electrochemical biosensing. <i>Analyst</i> , 2017, 142, 1591-1600.	3.5	11

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55	Catalytic Effect on Silver Electrodeposition of Gold Deposited on Carbon Electrodes. <i>Electroanalysis</i> , 2004, 16, 1561-1568.	2.9	10
56	Unfolded p53 as a Marker of Oxidative Stress in Mild Cognitive Impairment, Alzheimer's and Parkinson's Disease. <i>Current Alzheimer Research</i> , 2021, 18, 695-700.	1.4	10
57	Dual screen-printed electrodes with elliptic working electrodes arranged in parallel or perpendicular to the strip. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 302-308.	7.8	9
58	Enzymatic amplification-free nucleic acid hybridisation sensing on nanostructured thick-film electrodes by using covalently attached methylene blue. <i>Talanta</i> , 2015, 142, 11-19.	5.5	9
59	Competitive electrochemical biosensing of biotin using cadmium-modified titanium phosphate nanoparticles and 8-channel screen-printed disposable electrodes. <i>Analytical Methods</i> , 2017, 9, 3983-3991.	2.7	9
60	Electrochemical quantification of Ag ₂ S quantum dots: evaluation of different surface coating ligands for bacteria determination. <i>Mikrochimica Acta</i> , 2020, 187, 169.	5.0	9
61	Determination of Silver-Modified Titanium Phosphate Nanoparticles by Voltammetric and Electrochemical Methods. <i>Electroanalysis</i> , 2014, 26, 2574-2579.	2.9	7
62	Stabilization of electrogenerated copper species on electrodes modified with quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5018-5027.	2.8	7
63	Electrochemical detection of quantum dots by stabilization of electrogenerated copper species. <i>Electrochemistry Communications</i> , 2017, 74, 53-56.	4.7	7
64	Hydrogen Evolution: Electrochemical Pretreatment for Voltammetric Analysis with Gold Electrodes. <i>Electroanalysis</i> , 2015, 27, 1073-1077.	2.9	6
65	Tuning the incorporation of electroactive metals into titanium phosphate nanoparticles and the reverse metal extraction process: Application as electrochemical labels in multiplex biosensing. <i>Electrochemistry Communications</i> , 2017, 83, 1-5.	4.7	6
66	Simple and rapid electrochemical quantification of water-stabilized HgSe nanoparticles of great concern in environmental studies. <i>Talanta</i> , 2019, 200, 72-77.	5.5	5
67	Determination of buprenorphine in biological samples by high performance liquid chromatography with electrochemical detection. <i>Chromatographia</i> , 2001, 53, 704-708.	1.3	4
68	Sequential incorporation of metallic cations (Cd ²⁺ and Hg ²⁺) and N-octylamine into titanium phosphate nanoparticles and their subsequent release in acid media. <i>Dalton Transactions</i> , 2017, 46, 7061-7073.	3.3	4
69	Nanoceria quantification based on its oxidative effect towards the ferrocyanide/ferricyanide system. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 338-342.	3.8	4