

Mamas I Prodromidis

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95
papers

2,623
citations

28
h-index

46
g-index

98
ext. papers

2,862
ext. citations

6.4
avg, IF

5.63
L-index

#	Paper	IF	Citations
95	Impedimetric immunosensors: A review. <i>Electrochimica Acta</i> , 2010 , 55, 4227-4233	6.7	264
94	Electrochemical immunosensors: Critical survey of different architectures and transduction strategies. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 79, 88-105	14.6	148
93	Synthesis, characterization and performance of vanadium hexacyanoferrate as electrocatalyst of H ₂ O ₂ . <i>Electrochemistry Communications</i> , 2005 , 7, 1398-1404	5.1	102
92	Comparative study of different types of graphenes as electrocatalysts for ascorbic acid. <i>Electrochemistry Communications</i> , 2010 , 12, 1307-1309	5.1	82
91	Flexible plastic, paper and textile lab-on-a chip platforms for electrochemical biosensing. <i>Lab on A Chip</i> , 2018 , 18, 1812-1830	7.2	82
90	Disposable screen-printed sensors modified with bismuth precursor compounds for the rapid voltammetric screening of trace Pb(II) and Cd(II). <i>Analytica Chimica Acta</i> , 2012 , 728, 1-8	6.6	73
89	Flow electrochemical determination of ascorbic acid in real samples using a glassy carbon electrode modified with a cellulose acetate film bearing 2,6-dichlorophenolindophenol. <i>Analytica Chimica Acta</i> , 2000 , 409, 113-121	6.6	70
88	Development of a faradic impedimetric immunosensor for the detection of Salmonella typhimurium in milk. <i>Analytical Chemistry</i> , 2008 , 80, 1169-75	7.8	67
87	Electrochemical study of chemically modified and screen-printed graphite electrodes with. <i>Analytical Chemistry</i> , 2000 , 72, 3995-4002	7.8	62
86	Disposable integrated bismuth citrate-modified screen-printed immunosensor for ultrasensitive quantum dot-based electrochemical assay of C-reactive protein in human serum. <i>Analytica Chimica Acta</i> , 2015 , 886, 29-36	6.6	55
85	Development and study of anodic Ti/TiO ₂ electrodes and their potential use as impedimetric immunosensors. <i>Electrochimica Acta</i> , 2006 , 51, 3537-3542	6.7	53
84	Bismuth-dispersed xerogel-based composite films for trace Pb(II) and Cd(II) voltammetric determination. <i>Analytica Chimica Acta</i> , 2013 , 769, 49-55	6.6	52
83	Novel screen-printed antimony and tin voltammetric sensors for anodic stripping detection of Pb(II) and Cd(II). <i>Electrochimica Acta</i> , 2013 , 114, 758-765	6.7	51
82	Lab-on-a-Membrane Foldable Devices for Duplex Drop-Volume Electrochemical Biosensing Using Quantum Dot Tags. <i>Analytical Chemistry</i> , 2016 , 88, 6897-904	7.8	49
81	Green and facile electrode modification by spark discharge: Bismuth oxide-screen printed electrodes for the screening of ultra-trace Cd(II) and Pb(II). <i>Electrochemistry Communications</i> , 2015 , 50, 20-23	5.1	48
80	Synthesis and characterization of carbon nanotubes decorated with Pt and PtRu nanoparticles and assessment of their electrocatalytic performance. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1243-1253	6.7	40
79	An electrochemical sensor for trace uranium determination based on 6-O-palmitoyl-l-ascorbic acid-modified graphite electrodes. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 689-694	8.5	38

78	Bioelectrochemical determination of citric acid in real samples using a fully automated flow injection manifold. <i>Analyst, The</i> , 1997 , 122, 1101-6	5	38
77	Development of capacitance based immunosensors on mixed self-assembled monolayers. <i>Sensors and Actuators B: Chemical</i> , 2006 , 114, 1064-1070	8.5	38
76	Quantum dot-based electrochemical DNA biosensor using a screen-printed graphite surface with embedded bismuth precursor. <i>Electrochemistry Communications</i> , 2015 , 60, 47-51	5.1	37
75	Synthesis, characterization and performance of polyaniline/polyoxometalates (XM ₁₂ , X=P, Si and M=Mo, W) composites as electrocatalysts of bromates. <i>Sensors and Actuators B: Chemical</i> , 2012 , 173, 346-353	8.5	36
74	Impedimetric biosensor for the assessment of the clotting activity of rennet. <i>Analytical Chemistry</i> , 2010 , 82, 8629-36	7.8	36
73	The Importance of Surface Coverage in the Electrochemical Study of Chemically Modified Electrodes. <i>Electroanalysis</i> , 2000 , 12, 1498-1501	3	35
72	Performance of layer-by-layer deposited low dimensional building blocks of graphene-prussian blue onto graphite screen-printed electrodes as sensors for hydrogen peroxide. <i>Electrochimica Acta</i> , 2014 , 146, 477-484	6.7	34
71	An Enzymic Method for the Determination of Bilirubin Using an Oxygen Electrode. <i>Electroanalysis</i> , 2000 , 12, 292-295	3	33
70	Development of an impedimetric immunosensor based on electropolymerized polytyramine films for the direct detection of Salmonella typhimurium in pure cultures of type strains and inoculated real samples. <i>Analytica Chimica Acta</i> , 2008 , 624, 301-7	6.6	32
69	Fabrication and voltammetric study of lanthanum 2,6-dichlorophenolindophenol chemically modified screen printed electrodes.: Application for the determination of ascorbic acid. <i>Analytica Chimica Acta</i> , 2000 , 423, 107-114	6.6	32
68	Glucose sensing on graphite screen-printed electrode modified by sparking of copper nickel alloys. <i>Talanta</i> , 2017 , 165, 466-473	6.2	28
67	Preorganized composite material of polyaniline/palladium nanoparticles with high electrocatalytic activity to methanol and ethanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6745-6753	6.7	28
66	Electrocatalytic Oxidation of NADH in Flow Analysis by Graphite Electrode Modified with 2,6-Dichlorophenolindophenol Salts. <i>Electroanalysis</i> , 1998 , 10, 1261-1268	3	28
65	Highly selective spectrophotometric determination of trace cobalt and development of a reagentless fiber-optic sensor. <i>Analytica Chimica Acta</i> , 2002 , 467, 205-215	6.6	28
64	Investigation of fish product/metal container interaction using scanning electron microscopy/x-ray microanalysis. <i>Food Chemistry</i> , 2006 , 98, 225-230	8.5	27
63	Electrochemical study of ferrocene intercalated vanadium pentoxide xerogel/polyvinyl alcohol composite films: Application in the development of amperometric biosensors. <i>Electrochemistry Communications</i> , 2005 , 7, 781-788	5.1	27
62	Low dimensional Bi ₂ Te ₃ -graphene oxide hybrid film-modified electrodes for ultra-sensitive stripping voltammetric detection of Pb(II) and Cd(II). <i>Electrochimica Acta</i> , 2017 , 231, 230-237	6.7	26
61	Rhodium nanoparticle-modified screen-printed graphite electrodes for the determination of hydrogen peroxide in tea extracts in the presence of oxygen. <i>Talanta</i> , 2015 , 134, 482-487	6.2	26

60	Determination of Cd and Zn with green screen-printed electrodes modified with instantly prepared sparked tin nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018 , 260, 1076-1083	8.5	26
59	2D bismuthene/graphene modified electrodes for the ultra-sensitive stripping voltammetric determination of lead and cadmium. <i>Electrochimica Acta</i> , 2020 , 336, 135726	6.7	25
58	Evaluation of lacquered tinplated cans containing octopus in brine by employing X-ray microanalysis and electrochemical impedance spectroscopy. <i>Journal of Food Engineering</i> , 2008 , 86, 460-464	6.4	25
57	Sparked-bismuth oxide screen-printed electrodes for the determination of riboflavin in the sub-nanomolar range in non-deoxygenated solutions. <i>Electrochimica Acta</i> , 2015 , 165, 410-415	6.7	24
56	Preparation of a 2-(4-fluorophenyl)indole-modified xerogel and its use for the fabrication of screen-printed electrodes for the electrocatalytic determination of sulfide. <i>Analytica Chimica Acta</i> , 2004 , 523, 201-207	6.6	24
55	Voltammetric determination of trace Tl(I) at disposable screen-printed electrodes modified with bismuth precursor compounds. <i>Sensors and Actuators B: Chemical</i> , 2013 , 182, 718-724	8.5	23
54	Development of 1-(2-pyridylazo)-2-naphthol-modified polymeric membranes for the effective batch pre-concentration and determination of zinc traces with flame atomic absorption spectrometry. <i>Talanta</i> , 2002 , 56, 491-8	6.2	23
53	All-solid-state potentiometric sensors for ascorbic acid by using a screen-printed compatible solid contact. <i>Analytica Chimica Acta</i> , 2004 , 502, 15-22	6.6	22
52	Construction and analytical applications of a palm-sized microcontroller-based amperometric analyzer. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 372-378	8.5	22
51	Electrochemically induced chemical sensor properties in graphite screen-printed electrodes: The case of a chemical sensor for uranium. <i>Electrochimica Acta</i> , 2011 , 56, 8857-8860	6.7	21
50	In-situ tailoring of the electrocatalytic properties of screen-printed graphite electrodes with sparked generated molybdenum nanoparticles for the simultaneous voltammetric determination of sunset yellow and tartrazine. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127268	8.5	21
49	Screen-Printed Disposable Sensors Modified with Bismuth Precursors for Rapid Voltammetric Determination of 3 Ecotoxic Nitrophenols. <i>Electroanalysis</i> , 2014 , 26, 766-775	3	20
48	Amperometric determination of L-malic acid in a flow injection analysis manifold using packed-bed enzyme reactors. <i>Analyst</i> , 1996 , 121, 435	5	20
47	Lab-on-a-screen-printed electrochemical cell for drop-volume voltammetric screening of flunitrazepam in untreated, undiluted alcoholic and soft drinks. <i>Biosensors and Bioelectronics</i> , 2019 , 132, 136-142	11.8	18
46	Performance of Impedimetric Biosensors Based on Anodically Formed Ti/TiO ₂ Electrodes. <i>Electroanalysis</i> , 2005 , 17, 1878-1885	3	18
45	Assessment of the interaction between a synthetic epitope of troponin C and its specific antibody using a label-free faradaic impedimetric immunosensor and alpha-Kegginsilicotungstic heteropolyacid as a redox probe. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 362-9	11.8	17
44	Ozone monitoring based on a biosensor concept utilizing a reagentless alcohol oxidase electrode. <i>Analytical Chemistry</i> , 2006 , 78, 4676-82	7.8	17
43	Low-cost screen-printed sensors on-demand: Instantly prepared sparked gold nanoparticles from eutectic Au/Si alloy for the determination of arsenic at the sub-ppb level. <i>Sensors and Actuators B: Chemical</i> , 2019 , 281, 273-280	8.5	17

42	An electrochemical study of lignin films degradation: Proof-of-concept for an impedimetric ozone sensor. <i>Sensors and Actuators B: Chemical</i> , 2008 , 129, 903-908	8.5	16
41	Ultrasensitive Determination of Vitamin B12 Using Disposable Graphite Screen-Printed Electrodes and Anodic Adsorptive Voltammetry. <i>Electroanalysis</i> , 2015 , 27, 1876-1882	3	15
40	Development of an amperometric biosensing method for the determination of L-fucose in pretreated urine. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 620-7	11.8	15
39	Metal-Dispersed Xerogel-Based Composite Films for the Development of Interference Free Oxidase-Based Biosensors. <i>Chemistry of Materials</i> , 2004 , 16, 1026-1034	9.6	15
38	Amperometric Detection of Periodate Using a Graphite Electrode Modified with a Novel Keggin-Type Silicotungstic Acid Salt and Determination of Ethylene Glycol in Antifreeze Fluids. <i>Electroanalysis</i> , 2001 , 13, 960-966	3	15
37	Electrochemical Behavior and Analytical Utility of a Controlled Porosity Cellulose Acetate Film Bearing 2,6-Dichlorophenolindophenol. <i>Electroanalysis</i> , 2000 , 12, 361-368	3	15
36	Reagentless enzyme electrode for malate based on modified polymeric membranes. <i>Analytica Chimica Acta</i> , 2000 , 408, 217-224	6.6	15
35	Spectrophotometric Determination of Trace Amounts of Vanadium Based on its Catalytic Effect on the Reaction of Diphenylamine and Hydrogen Peroxide. <i>Mikrochimica Acta</i> , 2000 , 135, 197-201	5.8	15
34	Solid redox polymer electrolyte-based amperometric sensors for the direct monitoring of ozone in gas phase. <i>Electrochemistry Communications</i> , 2009 , 11, 2113-2116	5.1	14
33	An Enzyme Electrode for Extended Linearity Citrate Measurements Based on Modified Polymeric Membranes. <i>Electroanalysis</i> , 2000 , 12, 1118-1123	3	14
32	Use of interelectrode material transfer of nickel and copper-nickel alloy to carbon fibers to assemble miniature glucose sensors. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 816, 45-53	4.1	13
31	Development of amperometric biosensors for the determination of glycolic acid in real samples. <i>Analytical Chemistry</i> , 2002 , 74, 132-9	7.8	13
30	Development of a flow amperometric enzymatic method for the determination of total glucosinolates in real samples. <i>Analytical Chemistry</i> , 2003 , 75, 927-34	7.8	12
29	Preparation of Screen-Printed Compatible Bismuth-Modified Sol-Gel Microspheres: Application to the Stripping Voltammetric Determination of Lead and Cadmium. <i>Analytical Letters</i> , 2016 , 49, 979-989	2.2	10
28	A portable medical diagnostic device utilizing free-standing responsive polymer film-based biosensors and low-cost transducer for point-of-care applications. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127356	8.5	10
27	Kappa-casein based electrochemical and surface plasmon resonance biosensors for the assessment of the clotting activity of rennet. <i>Analytica Chimica Acta</i> , 2012 , 712, 132-7	6.6	9
26	On-site monitoring of fish spoilage using vanadium pentoxide xerogel modified interdigitated gold electrodes. <i>Electrochimica Acta</i> , 2010 , 55, 4256-4260	6.7	9
25	Monitoring of the avidinBiotylinated dextran interaction on Au- and Ti/TiO ₂ -electrode surfaces using a charge integrating device. <i>Sensors and Actuators B: Chemical</i> , 2006 , 114, 47-57	8.5	9

24	Low-cost pencil graphite-based electrochemical detector for HPLC with near-coulometric efficiency. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126618	8.5	8
23	Membrane sampler for interference-free flow injection NO determination in biological fluids with chemiluminescence detection. <i>Analytica Chimica Acta</i> , 2001 , 450, 63-72	6.6	7
22	Sensitive Determination of Iron Using Disposable Nafion-Coated Screen-Printed Graphite Electrodes. <i>Analytical Letters</i> , 2018 , 51, 198-208	2.2	6
21	On the possibility of a pH-metric determination of ozone. <i>Electrochemistry Communications</i> , 2010 , 12, 262-265	5.1	6
20	Generation of graphite nanomaterials from pencil leads with the aid of a 3D positioning sparking device: Application to the voltammetric determination of nitroaromatic explosives. <i>Sensors and Actuators B: Chemical</i> , 2020 , 310, 127871	8.5	5
19	Humidity impedimetric sensor based on vanadium pentoxide xerogel modified screen-printed graphite electrochemical cell. <i>Talanta</i> , 2020 , 216, 121003	6.2	5
18	Palladium nanoparticle-decorated iron nanotubes hosted in a polycarbonate porous membrane: development, characterization, and performance as electrocatalysts of ascorbic acid. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 1637-42	4.4	5
17	Application of a picrolonate ion-selective electrode to the assay of calcium and piperazine in pharmaceuticals and serum. <i>Analyst, The</i> , 1994 , 119, 1613-7	5	5
16	3D printed microcell featuring a disposable nanocomposite Sb/Sn immunosensor for quantum dot-based electrochemical determination of adulteration of ewe/goat cheese with cow milk. <i>Sensors and Actuators B: Chemical</i> , 2021 , 334, 129614	8.5	5
15	Extended coverage of screen-printed graphite electrodes by spark discharge produced gold nanoparticles with a 3D positioning device. Assessment of sparking voltage-time characteristics to develop sensors with advanced electrocatalytic properties. <i>Electrochimica Acta</i> , 2019 , 304, 292-300	6.7	5
14	Two-dimensional inorganic nanosheets: production and utility in the development of novel electrochemical (bio)sensors and gas-sensing applications. <i>Mikrochimica Acta</i> , 2021 , 188, 6	5.8	5
13	Bipolar electrochemical detection of reducing compounds based on visual observation of a metal electrodeposited track at the onset driving voltage. <i>Sensors and Actuators B: Chemical</i> , 2018 , 268, 529-534	8.5	4
12	Performance of a Faradaic impedimetric immunosensor for blood group antigen A. <i>Mikrochimica Acta</i> , 2008 , 163, 251-256	5.8	4
11	Construction of a Triphenyltetrazolium Liquid Membrane Ion Selective Electrode and its Analytical Application to the Assay of Vitamin C. <i>Mikrochimica Acta</i> , 2000 , 135, 113-117	5.8	4
10	A compact bipolar electrochemistry device utilizing a liquid free catholyte and eye visual indication of the reporting event for the determination of antioxidant capacity in real-world samples. <i>Talanta</i> , 2020 , 219, 121313	6.2	3
9	Combination of ferrocene decorated gold nanoparticles and engineered primers for the direct reagentless determination of isothermally amplified DNA. <i>Mikrochimica Acta</i> , 2021 , 188, 117	5.8	3
8	New Trends in Antibody-Based Electrochemical Biosensors. <i>Comprehensive Analytical Chemistry</i> , 2017 , 77, 55-100	1.9	2
7	Flow monitoring of NADH consumption in bioassays based on packed-bed reactors bearing NAD ⁺ -dependent dehydrogenases. <i>Analytica Chimica Acta</i> , 2002 , 467, 225-232	6.6	2

6	Electrochemical performance of passivated antimonene nanosheets and of in-situ prepared antimonene oxide-PEDOT:PSS modified screen-printed graphite electrodes. <i>Electrochimica Acta</i> , 2022 , 410, 140033	6.7	1
5	Simultaneous determination of guanine and adenine in human saliva with graphite sparked screen-printed electrodes. <i>Talanta</i> , 2021 , 239, 123119	6.2	1
4	Determination of 8-Hydroxydeoxyguanosine in urine with near-mode sparked graphite screen-printed electrodes. <i>Electrochimica Acta</i> , 2021 , 399, 139371	6.7	1
3	Indirect determination of Escherichia coli based on β -glucuronidase activity and the voltammetric oxidation of phenolphthalein at graphite screen-printed electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 879, 114752	4.1	1
2	The Importance of Surface Coverage in the Electrochemical Study of Chemically Modified Electrodes 2000 , 12, 1498		1
1	Smartphone paired SIM card-type integrated creatinine biosensor.. <i>Biosensors and Bioelectronics</i> , 2022 , 207, 114204	11.8	0