

Madalina Maria Barsan

List of Publications by Year in descending order

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53
papers

2,085
citations

236612

25
h-index

233125

45
g-index

53
all docs

53
docs citations

53
times ranked

3057
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical sensors and biosensors based on redox polymer/carbon nanotube modified electrodes: A review. <i>Analytica Chimica Acta</i> , 2015, 881, 1-23.	2.6	327
2	Phenazines and Polyphenazines in Electrochemical Sensors and Biosensors. <i>Analytical Letters</i> , 2010, 43, 1588-1608.	1.0	115
3	Photodynamic Therapy Efficacy Enhanced by Dynamics: The Role of Charge Transfer and Photostability in the Selection of Photosensitizers. <i>Chemistry - A European Journal</i> , 2014, 20, 5346-5357.	1.7	105
4	Electrosynthesis and electrochemical characterisation of phenazine polymers for application in biosensors. <i>Electrochimica Acta</i> , 2008, 53, 3973-3982.	2.6	98
5	Simple electrochemical sensor for caffeine based on carbon and Nafion-modified carbon electrodes. <i>Food Chemistry</i> , 2014, 149, 215-220.	4.2	84
6	Characterisation of poly(neutral red) modified carbon film electrodes; application as a redox mediator for biosensors. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 899-908.	1.2	83
7	Development of Greener Multi-Responsive Chitosan Biomaterials Doped with Biocompatible Ammonium Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1480-1492.	3.2	78
8	A new self-assembled layer-by-layer glucose biosensor based on chitosan biopolymer entrapped enzyme with nitrogen doped graphene. <i>Bioelectrochemistry</i> , 2014, 99, 46-52.	2.4	76
9	An alcohol oxidase biosensor using PNR redox mediator at carbon film electrodes. <i>Talanta</i> , 2008, 74, 1505-1510.	2.9	74
10	Chemically modified graphene and nitrogen-doped graphene: Electrochemical characterisation and sensing applications. <i>Electrochimica Acta</i> , 2013, 114, 533-542.	2.6	65
11	Highly sensitive amperometric enzyme biosensor for detection of superoxide based on conducting polymer/CNT modified electrodes and superoxide dismutase. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 574-582.	4.0	65
12	Nanostructured electropolymerized poly(methylene blue) films from deep eutectic solvents. Optimization and characterization. <i>Electrochimica Acta</i> , 2017, 232, 285-295.	2.6	59
13	New electrode architectures based on poly(methylene green) and functionalized carbon nanotubes: Characterization and application to detection of acetaminophen and pyridoxine. <i>Journal of Electroanalytical Chemistry</i> , 2015, 736, 8-15.	1.9	56
14	Improved glucose label-free biosensor with layer-by-layer architecture and conducting polymer poly(3,4-ethylenedioxythiophene). <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3227-3234.	4.0	53
15	Development and characterization of a new conducting carbon composite electrode. <i>Analytica Chimica Acta</i> , 2009, 635, 71-78.	2.6	49
16	Recent advances in layer-by-layer strategies for biosensors incorporating metal nanoparticles. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 286-296.	5.8	46
17	Nitrogen doped graphene and its derivatives as sensors and efficient direct electron transfer platform for enzyme biosensors. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 579-587.	4.0	45
18	L-lactate selective impedimetric bienzymatic biosensor based on lactate dehydrogenase and pyruvate oxidase. <i>Electrochimica Acta</i> , 2017, 231, 209-215.	2.6	36

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19	Nanocomposites based on carbon nanotubes and redox-active polymers synthesized in a deep eutectic solvent as a new electrochemical sensing platform. <i>Mikrochimica Acta</i> , 2017, 184, 3919-3927.	2.5	36
20	New CNT/poly(brilliant green) and CNT/poly(3,4-ethylenedioxythiophene) based electrochemical enzyme biosensors. <i>Analytica Chimica Acta</i> , 2016, 927, 35-45.	2.6	33
21	Carbon nanotube modified carbon cloth electrodes: Characterisation and application as biosensors. <i>Electrochimica Acta</i> , 2012, 85, 203-209.	2.6	30
22	Direct Immobilization of Biomolecules through Magnetic Forces on Ni Electrodes via Ni Nanoparticles: Applications in Electrochemical Biosensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19867-19877.	4.0	30
23	Design and application of a flow cell for carbon-film based electrochemical enzyme biosensors. <i>Talanta</i> , 2007, 71, 1893-1900.	2.9	29
24	A new modified conducting carbon composite electrode as sensor for ascorbate and biosensor for glucose. <i>Bioelectrochemistry</i> , 2009, 76, 135-140.	2.4	29
25	Fabrication of carbon paste electrode containing a new inorganic-organic hybrid based on [SiW ₁₂ O ₄₀] ⁴⁻ polyoxoanion and Nile blue and its electrocatalytic activity toward nitrite reduction. <i>Journal of Electroanalytical Chemistry</i> , 2013, 704, 80-85.	1.9	29
26	Methylene blue and neutral red electropolymerisation on AuQCM and on modified AuQCM electrodes: an electrochemical and gravimetric study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5462.	1.3	27
27	New Robust Redox and Conducting Polymer Modified Electrodes for Ascorbate Sensing and Glucose Biosensing. <i>Electroanalysis</i> , 2013, 25, 77-84.	1.5	25
28	Development and characterization of poly(3,4-ethylenedioxythiophene)-coated poly(methylene Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50 3	2.1	23
29	Development and Application of Oxysilane Sol-Gel Electrochemical Glucose Biosensors Based on Cobalt Hexacyanoferrate Modified Carbon Film Electrodes. <i>Electroanalysis</i> , 2007, 19, 220-226.	1.5	21
30	Synthesis, characterization and influence of poly(brilliant green) on the performance of different electrode architectures based on carbon nanotubes and poly(3,4-ethylenedioxythiophene). <i>Electrochimica Acta</i> , 2013, 98, 199-207.	2.6	21
31	New redox and conducting polymer modified electrodes for cholesterol biosensing. <i>Analytical Methods</i> , 2013, 5, 1199.	1.3	21
32	Mechanism of Formation and Construction of Self-Assembled Myoglobin/Hyaluronic Acid Multilayer Films: An Electrochemical QCM, Impedance, and AFM Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15354-15361.	1.2	20
33	Synthesis, structure, and spectral and electrochemical properties of chromium(III) tris-(8-hydroxyquinolate). <i>Dalton Transactions</i> , 2015, 44, 11491-11503.	1.6	19
34	Construction and evaluation of carbon black and poly(ethylene co-vinyl)acetate (EVA) composite electrodes for development of electrochemical (bio)sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 10-18.	4.0	19
35	Acidic and Basic Functionalized Carbon Nanomaterials as Electrical Bridges in Enzyme Loaded Chitosan/Poly(styrene sulfonate) Self-Assembled Layer-by-Layer Glucose Biosensors. <i>Electroanalysis</i> , 2015, 27, 2139-2149.	1.5	18
36	Molecular engineering of a π -conjugated polymer film of the azo dye Bismarck Brown Y. <i>RSC Advances</i> , 2016, 6, 101318-101322.	1.7	15

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37	Electrochemical Determination of Tyrosine using a Novel Tyrosinase Multi-Walled Carbon Nanotube (MWCNT) Polysulfone Modified Glassy Carbon Electrode (GCE). <i>Analytical Letters</i> , 2020, 53, 308-321.	1.0	14
38	Hybrid Nanocomposite Platform, Based on Carbon Nanotubes and Poly(Methylene Blue) Redox Polymer Synthesized in Ethaline Deep Eutectic Solvent for Electrochemical Determination of 5-Aminosalicylic Acid. <i>Sensors</i> , 2021, 21, 1161.	2.1	13
39	Nanostructured palladium doped nickel electrodes for immobilization of oxidases through nickel nanoparticles. <i>Electrochimica Acta</i> , 2019, 315, 102-113.	2.6	12
40	Mechanistic study of the formation of multiblock β -conjugated metallopolymer. <i>Polyhedron</i> , 2016, 117, 415-421.	1.0	10
41	Sustainable Electro-Responsive Semi-Interpenetrating Starch/Ionic Liquid Copolymer Networks for the Controlled Sorption/Release of Biomolecules. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10516-10532.	3.2	10
42	Electrospun conductive gold covered polycaprolactone fibers as electrochemical sensors for O ₂ monitoring in cell culture media. <i>Electrochemistry Communications</i> , 2020, 111, 106662.	2.3	10
43	Interaction between myoglobin and hyaluronic acid in layer-by-layer structures—An electrochemical study. <i>Electrochimica Acta</i> , 2010, 55, 6358-6366.	2.6	9
44	Disposable superoxide dismutase biosensors based on gold covered polycaprolactone fibers for the detection of superoxide in cell culture media. <i>Talanta</i> , 2022, 241, 123255.	2.9	9
45	New electrochemical sensor based on CoQ10 and cyclodextrin complexes for the detection of oxidative stress initiators. <i>Electrochimica Acta</i> , 2019, 302, 441-448.	2.6	7
46	Phosphonium ionic liquids as greener electrolytes for poly(vinyl chloride)-based ionic conducting polymers. <i>RSC Advances</i> , 2016, 6, 88979-88990.	1.7	6
47	Electrochemical assay for 20S proteasome activity and inhibition with anti-cancer drugs. <i>Talanta</i> , 2019, 199, 32-39.	2.9	6
48	Electrocatalytic Oxidation of Cysteine at a CoSalophen/ $(\text{butyl})_4\text{SiW}_{12}\text{O}_{40}$ Carbon Paste Electrode. <i>Electroanalysis</i> , 2013, 25, 2100-2108.	1.5	5
49	An antibody-based amperometric biosensor for 20S proteasome activity and inhibitor screening. <i>Analyst</i> , 2021, 146, 3216-3224.	1.7	5
50	Immobilized Antibodies on Mercaptophenylboronic Acid Monolayers for Dual-Strategy Detection of 20S Proteasome. <i>Sensors</i> , 2021, 21, 2702.	2.1	5
51	Quantification of cell oxygenation in 2D constructs of metallized electrospun polycaprolactone fibers encapsulating human valvular interstitial cells. <i>Journal of Electroanalytical Chemistry</i> , 2022, 905, 116005.	1.9	4
52	Bioconjugates of mercaptocarboxylic acids functionalized AuNP and superoxide dismutase for superoxide electrochemical monitoring. <i>Mikrochimica Acta</i> , 2022, 189, .	2.5	1
53	Label-free Evaluation of Carbon Nanoparticles in Layer-by-Layer Self-assembled Enzyme-based Biosensors. <i>Procedia Technology</i> , 2017, 27, 304-305.	1.1	0