

# Camelia Bala

## List of Publications by Year in descending order

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78  
papers

3,018  
citations

147801

31  
h-index

161849

54  
g-index

80  
all docs

80  
docs citations

80  
times ranked

4268  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Plasmon Resonance (SPR) Biosensors in Pharmaceutical Analysis. <i>Critical Reviews in Analytical Chemistry</i> , 2015, 45, 97-105.	3.5	262
2	Electrochemical biosensors for fast detection of food contaminants – trends and perspective. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 80-87.	11.4	248
3	Biosensors based on screen-printing technology, and their applications in environmental and food analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 565-578.	3.7	240
4	SPR and SPR Imaging: Recent Trends in Developing Nanodevices for Detection and Real-Time Monitoring of Biomolecular Events. <i>Sensors</i> , 2016, 16, 870.	3.8	142
5	Highly sensitive label-free immunosensor for ochratoxin A based on functionalized magnetic nanoparticles and EIS/SPR detection. <i>Sensors and Actuators B: Chemical</i> , 2011, 159, 178-184.	7.8	114
6	A novel amperometric biosensor based on gold nanoparticles anchored on reduced graphene oxide for sensitive detection of l-lactate tumor biomarker. <i>Biosensors and Bioelectronics</i> , 2015, 69, 280-286.	10.1	107
7	Development of a bio-electrochemical assay for AFB1 detection in olive oil. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1962-1968.	10.1	89
8	A novel, sensitive, reusable and low potential acetylcholinesterase biosensor for chlorpyrifos based on 1-butyl-3-methylimidazolium tetrafluoroborate/multiwalled carbon nanotubes gel. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3692-3695.	10.1	89
9	Biosensors designed for environmental and food quality control based on screen-printed graphite electrodes with different configurations. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 25-32.	3.7	81
10	Peptide-based biosensors: From self-assembled interfaces to molecular probes in electrochemical assays. <i>Bioelectrochemistry</i> , 2018, 120, 66-75.	4.6	72
11	Screen-printed electrodes with electropolymerized Meldola Blue as versatile detectors in biosensors. <i>Biosensors and Bioelectronics</i> , 2003, 18, 781-790.	10.1	68
12	Disposable immunosensor for the determination of domoic acid in shellfish. <i>Biosensors and Bioelectronics</i> , 2004, 20, 190-196.	10.1	67
13	New potentiometric microbial biosensor for ethanol determination in alcoholic beverages. <i>Analytica Chimica Acta</i> , 2004, 513, 119-123.	5.4	65
14	Classification of red wines using suitable markers coupled with multivariate statistic analysis. <i>Food Chemistry</i> , 2016, 192, 1015-1024.	8.2	63
15	Detection of organophosphorus insecticides with immobilized acetylcholinesterase - comparative study of two enzyme sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 39-45.	3.7	59
16	The NADH Electrochemical Detection Performed at Carbon Nanofibers Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2007, 19, 1455-1459.	2.9	53
17	Kinetic approach of aflatoxin B1 – acetylcholinesterase interaction: A tool for developing surface plasmon resonance biosensors. <i>Analytical Biochemistry</i> , 2012, 421, 587-594.	2.4	51
18	Acetylcholinesterase biosensor for carbamate drugs based on tetrathiafulvalene – tetracyanoquinodimethane/ionic liquid conductive gels. <i>Biosensors and Bioelectronics</i> , 2013, 46, 61-67.	10.1	51

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19	Microfluidics-integrated biosensing platforms as emergency tools for on-site field detection of foodborne pathogens. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 125, 115831.	11.4	45
20	A rational design of the multiwalled carbon nanotubeâ€“7,7,8,8-tetracyanoquinodimethan sensor for sensitive detection of acetylcholinesterase inhibitors. <i>Analytica Chimica Acta</i> , 2012, 748, 81-88.	5.4	43
21	Poly(allylamine hydrochloride) modified screen-printed carbon electrode for sensitive and selective detection of NADH. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 491-497.	7.8	42
22	NADH sensing platform based on electrochemically generated reduced graphene oxideâ€“gold nanoparticles composite stabilized with poly(allylamine hydrochloride). <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 697-704.	7.8	42
23	Advances in Electrochemical Impedance Spectroscopy Detection of Endocrine Disruptors. <i>Sensors</i> , 2020, 20, 6443.	3.8	42
24	Yeast cells sucrose biosensor based on a potentiometric oxygen electrode. <i>Analytica Chimica Acta</i> , 2002, 458, 215-222.	5.4	41
25	Differentiation of Romanian Wines on Geographical Origin and Wine Variety by Elemental Composition and Phenolic Components. <i>Food Analytical Methods</i> , 2014, 7, 2064-2074.	2.6	41
26	A modular electrochemical peptide-based sensor for antibody detection. <i>Chemical Communications</i> , 2014, 50, 8962.	4.1	40
27	Verifying the red wines adulteration through isotopic and chromatographic investigations coupled with multivariate statistic interpretation of the data. <i>Food Control</i> , 2016, 62, 1-9.	5.5	40
28	Non-enzymatic polyamic acid sensors for hydrogen peroxide detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 226, 525-533.	7.8	39
29	Improvement of NADH detection using Prussian blue modified screen-printed electrodes and different strategies of immobilisation. <i>Sensors and Actuators B: Chemical</i> , 2008, 128, 536-544.	7.8	35
30	Magnetic beads-based immunoassay as a sensitive alternative for atrazine analysis. <i>Talanta</i> , 2008, 77, 839-843.	5.5	34
31	Sensitive detection of endocrine disrupters using ionic liquid â€“ Single walled carbon nanotubes modified screen-printed based biosensors. <i>Talanta</i> , 2011, 85, 2007-2013.	5.5	34
32	Unprecedented Catalytic Wet Oxidation of Glucose to Succinic Acid Induced by the Addition of <i>n</i> -Butylamine to a Ru <sup>III</sup> Catalyst. <i>ChemSusChem</i> , 2016, 9, 2307-2311.	6.8	32
33	Electrochemical determination of NADH using screen printed carbon electrodes modified with reduced graphene oxide and poly(allylamine hydrochloride). <i>Mikrochimica Acta</i> , 2016, 183, 57-65.	5.0	32
34	Manganese oxide based screen-printed sensor for xenoestrogens detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 273-280.	7.8	31
35	Low potential thiocholine oxidation at carbon nanotube-ionic liquid gel sensor. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 73-79.	7.8	30
36	Enhanced Sensitive Love Wave Surface Acoustic Wave Sensor Designed for Immunoassay Formats. <i>Sensors</i> , 2015, 15, 10511-10525.	3.8	29

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37	Sensitive Aflatoxin B1 Determination Using a Magnetic Particles-Based Enzyme-Linked Immunosorbent Assay. <i>Sensors</i> , 2008, 8, 7571-7580.	3.8	28
38	Biocatalytic microreactor incorporating HRP anchored on micro-/nano-lithographic patterns for flow oxidation of phenols. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 69, 133-139.	1.8	28
39	Evaluation of Meldola Blue- $\alpha$ -Carbon Nanotube- $\alpha$ -Gel Composite for Electrochemical NADH Sensors and Their Application for Lactate Dehydrogenase-Based Biosensors. <i>Electroanalysis</i> , 2008, 20, 2355-2362.	2.9	27
40	Amperometric L-Lactate Biosensor Based upon a Gold Nanoparticles/Reduced Graphene Oxide/Polyallylamine Hydrochloride Modified Screen-Printed Graphite Electrode. <i>Chemosensors</i> , 2021, 9, 74.	3.6	26
41	Biosensor for the enantioselective analysis of S-captopril. <i>Sensors and Actuators B: Chemical</i> , 2003, 92, 228-231.	7.8	25
42	Strategies for developing NADH detectors based on Meldola Blue and screen-printed electrodes: a comparative study. <i>Talanta</i> , 2003, 59, 751-765.	5.5	25
43	On-line assay of the S-enantiomers of enalapril, ramipril and pentopril using a sequential injection analysis/amperometric biosensor system. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 36, 889-892.	2.8	24
44	New Type of Ethanol Microbial Biosensor Based on a Highly Sensitive Amperometric Oxygen Electrode and Yeast Cells. <i>Analytical Letters</i> , 2003, 36, 2459-2471.	1.8	21
45	Amperometric Low-Potential Detection of Malic Acid Using Single-Wall Carbon Nanotubes Based Electrodes. <i>Sensors</i> , 2008, 8, 1497-1507.	3.8	21
46	Enalapril and Ramipril Selective Membranes— <i>—</i> . <i>Analytical Letters</i> , 1997, 30, 1999-2008.	1.8	19
47	Synergistic effect of mediator- $\alpha$ -carbon nanotube composites for dehydrogenases and peroxidases based biosensors. <i>Bioelectrochemistry</i> , 2009, 76, 107-114.	4.6	15
48	Sensing of sulfhydryl based compounds by a simple electrochemical approach. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 65-73.	7.8	14
49	Paper-based diagnostic platforms and devices. <i>Current Opinion in Electrochemistry</i> , 2021, 27, 100726.	4.8	14
50	An enzyme-free hydrogen peroxide sensor for evaluation of probiotic potential of <i>Enterococcus faecium</i> . <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 298-304.	7.8	13
51	Building switchable peptide-architectures on gold/composite surfaces: New perspectives in electrochemical bioassays. <i>Current Opinion in Electrochemistry</i> , 2018, 12, 13-20.	4.8	12
52	Biosensors for Antioxidants Detection: Trends and Perspectives. <i>Biosensors</i> , 2020, 10, 112.	4.7	12
53	Enalapril Microbial Biosensor. <i>Preparative Biochemistry and Biotechnology</i> , 1998, 28, 261-269.	1.9	11
54	Simultaneous Determination of Phenolic Acids in Water Caltrop by HPLC-DAD. <i>Analytical Letters</i> , 2012, 45, 2519-2529.	1.8	9

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55	Biomimetic Sensors Based on Molecularly Imprinted Interfaces. <i>Comprehensive Analytical Chemistry</i> , 2017, 77, 147-177.	1.3	9
56	Multi-frequency analysis in a single square-wave chronoamperometric experiment. <i>Electrochemistry Communications</i> , 2021, 124, 106943.	4.7	8
57	Characterization of Wines by <i>Trans</i> -Resveratrol Concentration: A Case Study of Romanian Varieties. <i>Analytical Letters</i> , 2014, 47, 1737-1746.	1.8	6
58	Voltammetric Detection of Copper Ions on a Gold Electrode Modified with a <i>N</i> -methyl-2-naphthyl-cyclam film. <i>Analytical Letters</i> , 2018, 51, 971-982.	1.8	6
59	Significance Testing and Multivariate Analysis of Datasets from Surface Plasmon Resonance and Surface Acoustic Wave Biosensors: Prediction and Assay Validation for Surface Binding of Large Analytes. <i>Sensors</i> , 2018, 18, 3541.	3.8	6
60	A Novel Amperometric Biosensor Based on Poly(allylamine hydrochloride) for Determination of Ethanol in Beverages. <i>Sensors</i> , 2021, 21, 6510.	3.8	6
61	Amperometric Determination of Ethanol using a Novel Nanobiocomposite. <i>Analytical Letters</i> , 2018, 51, 323-335.	1.8	5
62	Development of Biological Sensors Based on Screen-Printed Electrodes for Environmental Pollution Monitoring. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2009, , 401-413.	0.2	4
63	Portable measuring and display unit for electrochemical sensors. , 2010, , .		3
64	Synthesis and electroactivated addressing of ferrocenyl and azido-modified stem-loop oligonucleotides on an integrated electrochemical device. <i>Electrochimica Acta</i> , 2015, 164, 62-70.	5.2	3
65	Validation of a Quantitative Method Determination of Estradiol in Pharmaceutical Products using UV-Vis Molecular Absorption Spectrometry. <i>Analytical Letters</i> , 2008, 41, 3272-3296.	1.8	2
66	Determination of Xenoestrogenic Compounds Using a Nanostructured Biosensing Device. <i>Electroanalysis</i> , 2012, 24, 2371-2379.	2.9	2
67	Selective chemical sensor for liquid specimens based on lithium tantalate surface acoustic wave devices. , 2015, , .		2
68	Early detection of cannabinoids in biological samples based on their affinity interaction with the growth hormone secretagogue receptor. <i>Talanta</i> , 2022, 237, 122905.	5.5	2
69	Label-free detection of target proteins using peptide molecular wires as conductive supports. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130416.	7.8	2
70	Electrochemical sensor with polymer thick film printed electrodes. , 2009, , .		1
71	New Challenges in the Design of Bio(Sensors) for Biological Warfare Agents. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2012, , 15-41.	0.5	1
72	Peptide-based electrochemical biosensors. , 2019, , 277-306.		1

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73	Early Detection of Growth Hormone Secretagogue Receptor Antagonists Exploiting Their Atypical Behavior in Competitive Assays. <i>Analytical Chemistry</i> , 2019, 91, 14812-14817.	6.5	1
74	DEVELOPMENT OF A PESTICIDES BIOSENSOR USING CARBON-BASED ELECTRODE SYSTEMS. , 2006, , 337-343.		1
75	Presentation of the MADICA 2016 Special Issue. <i>Analytical Letters</i> , 2018, 51, 293-295.	1.8	0
76	Determination of Water-Soluble Vitamins and Drug Residues. <i>Series in Sensors</i> , 2013, , 443-472.	0.0	0
77	New Routes in the High-Throughput Screening of Toxic Proteins Using Immunochemical Tools. <i>Advanced Sciences and Technologies for Security Applications</i> , 2016, , 35-59.	0.5	0
78	Plasmonic biosensors in medical applications. , 2022, , .		0