

Rodica Elena Ionescu

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,609
citations

236925

25
h-index

289244

40
g-index

57
all docs

57
docs citations

57
times ranked

2273
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical lateral flow immunosensor for detection and quantification of dengue NS1 protein. <i>Biosensors and Bioelectronics</i> , 2016, 77, 400-408.	10.1	122
2	Synthesis and Characterization of a Pyrrole-Alginate Conjugate and Its Application in a Biosensor Construction. <i>Biomacromolecules</i> , 2005, 6, 3313-3318.	5.4	94
3	Protease Amperometric Sensor. <i>Analytical Chemistry</i> , 2006, 78, 6327-6331.	6.5	92
4	Lateral Flow Immunoassays – from Paper Strip to Smartphone Technology. <i>Electroanalysis</i> , 2015, 27, 2116-2130.	2.9	89
5	Impedimetric immunosensor for the specific label free detection of ciprofloxacin antibiotic. <i>Biosensors and Bioelectronics</i> , 2007, 23, 549-555.	10.1	84
6	Construction of Amperometric Immunosensors Based on the Electrogeneration of a Permeable Biotinylated Polypyrrole Film. <i>Analytical Chemistry</i> , 2004, 76, 6808-6813.	6.5	79
7	Strong Improvements of Localized Surface Plasmon Resonance Sensitivity by Using Au/Ag Bimetallic Nanostructures Modified with Polydopamine Films. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 219-227.	8.0	73
8	Amperometric Algal <i>Chlorella vulgaris</i> Cell Biosensors Based on Alginate and Polypyrrole-Alginate Gels. <i>Electroanalysis</i> , 2006, 18, 1041-1046.	2.9	63
9	Amperometric Immunosensor for the Detection of Anti-West Nile Virus IgG. <i>Analytical Chemistry</i> , 2007, 79, 8662-8668.	6.5	62
10	Label-free impedimetric immunosensor for sensitive detection of atrazine. <i>Electrochimica Acta</i> , 2010, 55, 6228-6232.	5.2	62
11	EIS microfluidic chips for flow immunoassay and ultrasensitive cholera toxin detection. <i>Lab on a Chip</i> , 2011, 11, 658-663.	6.0	59
12	Large Scale Fabrication of Gold Nano-Structured Substrates Via High Temperature Annealing and Their Direct Use for the LSPR Detection of Atrazine. <i>Plasmonics</i> , 2013, 8, 143-151.	3.4	51
13	Improved enzyme retention from an electropolymerized polypyrrole-alginate matrix in the development of biosensors. <i>Electrochemistry Communications</i> , 2005, 7, 1277-1282.	4.7	44
14	Fate and Characterization Factors of Nanoparticles in Seventeen Subcontinental Freshwaters: A Case Study on Copper Nanoparticles. <i>Environmental Science & Technology</i> , 2016, 50, 9370-9379.	10.0	44
15	Nanolithography Using Protease Etching of Protein Surfaces. <i>Nano Letters</i> , 2003, 3, 1639-1642.	9.1	41
16	Sensitive Localized Surface Plasmon Resonance Multiplexing Protocols. <i>Analytical Chemistry</i> , 2012, 84, 8020-8027.	6.5	41
17	A lower limit of detection for atrazine was obtained using bioluminescent reporter bacteria via a lower incubation temperature. <i>Ecotoxicology and Environmental Safety</i> , 2012, 84, 221-226.	6.0	41
18	A polypyrrole cDNA electrode for the amperometric detection of the West Nile Virus. <i>Electrochemistry Communications</i> , 2006, 8, 1741-1748.	4.7	39

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19	Electroenzymatic Polypyrrole-intercalator Sensor for the Determination of West Nile Virus cDNA. <i>Analytical Chemistry</i> , 2006, 78, 7054-7057.	6.5	36
20	Aqueous dispersions of SWCNTs using pyrrolic surfactants for the electro-generation of homogeneous nanotube composites. Application to the design of an amperometric biosensor. <i>Journal of Materials Chemistry</i> , 2008, 18, 5129.	6.7	36
21	Development of localized surface plasmon resonance biosensors for the detection of <i>Brettanomyces bruxellensis</i> in wine. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 295-300.	7.8	35
22	Comparison between the performances of amperometric immunosensors for cholera antitoxin based on three enzyme markers. <i>Talanta</i> , 2005, 66, 15-20.	5.5	34
23	Real-time monitoring of copper ions-induced cytotoxicity by EIS cell chips. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2711-2716.	10.1	30
24	Manufacturing of Nanochannels with Controlled Dimensions Using Protease Nanolithography. <i>Nano Letters</i> , 2005, 5, 821-827.	9.1	27
25	Urease-gelatin interdigitated microelectrodes for the conductometric determination of protease activity. <i>Biosensors and Bioelectronics</i> , 2008, 24, 489-492.	10.1	26
26	On-line biosensor for the detection of putative toxicity in water contaminants. <i>Talanta</i> , 2015, 132, 583-590.	5.5	23
27	Amperometric immunosensor for the detection of anti-West Nile virus IgG using a photoactive copolymer. <i>Enzyme and Microbial Technology</i> , 2007, 40, 403-408.	3.2	21
28	Sequential acoustic detection of atrazine herbicide and carbofuran insecticide using a single micro-structured gold quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 400-404.	7.8	18
29	Robust SERS Platforms Based on Annealed Gold Nanostructures Formed on Ultrafine Glass Substrates for Various (Bio)Applications. <i>Biosensors</i> , 2019, 9, 53.	4.7	15
30	Development of EIS cell chips and their application for cell analysis. <i>Microelectronic Engineering</i> , 2009, 86, 1477-1480.	2.4	14
31	Fixed <i>Escherichia coli</i> bacterial templates enable the production of sensitive SERS-based gold nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 213-219.	7.8	14
32	Fabrication of Annealed Gold Nanostructures on Pre-Treated Glow-Discharge Cleaned Glasses and Their Used for Localized Surface Plasmon Resonance (LSPR) and Surface Enhanced Raman Spectroscopy (SERS) Detection of Adsorbed (Bio)molecules. <i>Sensors</i> , 2017, 17, 236.	3.8	14
33	A facile and cost-effective TEM grid approach to design gold nano-structured substrates for high throughput plasmonic sensitive detection of biomolecules. <i>Analyst</i> , The, 2013, 138, 1015.	3.5	12
34	Bioluminescence enhancement through an added washing protocol enabling a greater sensitivity to carbofuran toxicity. <i>Ecotoxicology and Environmental Safety</i> , 2013, 96, 61-66.	6.0	11
35	Influence of carbon-based nanomaterials on lux-bioreporter <i>Escherichia coli</i> . <i>Talanta</i> , 2014, 126, 208-213.	5.5	10
36	Fabrication of an atrazine acoustic immunosensor based on a drop-deposition procedure. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 2015-21.	3.0	8

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37	Impact of copper nanoparticles on porcine neutrophils: ultrasensitive characterization factor combining chemiluminescence information and USEtox assessment model. <i>Materials Today Communications</i> , 2017, 11, 68-75.	1.9	7
38	Carbon Cavity Microelectrode for Electrical Wiring of Enzyme by Insoluble Electroactive Species in Aqueous Media. <i>Electroanalysis</i> , 2008, 20, 750-756.	2.9	6
39	Measurement of Bacterial Bioluminescence Intensity and Spectrum: Current Physical Techniques and Principles. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 154, 19-45.	1.1	4
40	Surface enhanced Raman spectroscopy phylogenetic tree for genosensing of <i>Brettanomyces bruxellensis</i> yeast on nanostructured ultrafine glass supports. <i>Optik</i> , 2020, 203, 163956.	2.9	4
41	Acoustic Multi-Detection of Gliadin Using QCM Crystals Patterned with Controlled Sectors of TEM Grid and Annealed Nanoislands on Gold Electrode. <i>Nanomaterials</i> , 2020, 10, 790.	4.1	4
42	Glucose sensing on reproducible and tunable plasmonic nanostructures formed on annealed coverslips coated with thin layers of gold and indium tin oxide. <i>Sensors and Actuators A: Physical</i> , 2021, 318, 112510.	4.1	4
43	Facile, wafer-scale compatible growth of ZnO nanowires via chemical bath deposition: assessment of zinc ion contribution and other limiting factors. <i>Nanoscale Advances</i> , 2020, 2, 5288-5295.	4.6	3
44	Influence of Saline Buffers over the Stability of High-Annealed Gold Nanoparticles Formed on Coverslips for Biological and Chemosensing Applications. <i>Bioengineering</i> , 2020, 7, 68.	3.5	3
45	Patterning Large-Scale Nanostructured Microarrays on Coverslip for Sensitive Plasmonic Detection of Aqueous Gliadin Traces. <i>Chemosensors</i> , 2022, 10, 38.	3.6	3
46	Procedure 26 Construction of amperometric immunosensors for the analysis of cholera antitoxin and comparison of the performances between three different enzyme markers. <i>Comprehensive Analytical Chemistry</i> , 2007, , e185-e194.	1.3	2
47	Freshwater Sediment Characterization Factors of Copper Oxide Nanoparticles. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 51, 012020.	0.3	2
48	Biosensor Platforms for Rapid Detection of <i>E. coli</i> Bacteria. , 2017, , .		1
49	Influence of Dissolution on Fate of Nanoparticles in Freshwater. <i>International Journal of Environmental Science and Development</i> , 2017, 8, 347-354.	0.6	1
50	Acoustic biosensors for medical and environmental purposes. , 2011, , .		0
51	Nanostructured metallic supports as ultrasensitive platforms for sequential plasmonic and acoustic detection of biomolecules. <i>Journal of Biotechnology</i> , 2015, 208, S27.	3.8	0
52	Microwave Spectroscopic Detection of Human Hsp70 Protein on Annealed Gold Nanostructures on ITO Glass Strips. <i>Biosensors</i> , 2018, 8, 118.	4.7	0
53	Chemosensing on Miniaturized Plasmonic Substrates. <i>Micromachines</i> , 2021, 12, 275.	2.9	0
54	Quartz Crystal Microbalance Genosensing of <i>Brettanomyces bruxellensis</i> Yeast in Wine Using a Rapid and Efficient Drop and Collect Protocol. <i>Crystals</i> , 2021, 11, 562.	2.2	0