

Rodica Elena Ionescu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

1,337
citations

23
h-index

36
g-index

57
ext. papers

1,475
ext. citations

5.8
avg, IF

4.3
L-index

#	Paper	IF	Citations
50	Electrochemical lateral flow immunosensor for detection and quantification of dengue NS1 protein. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 400-8	11.8	96
49	Protease amperometric sensor. <i>Analytical Chemistry</i> , 2006 , 78, 6327-31	7.8	81
48	Synthesis and characterization of a pyrrole-alginate conjugate and its application in a biosensor construction. <i>Biomacromolecules</i> , 2005 , 6, 3313-8	6.9	78
47	Impedimetric immunosensor for the specific label free detection of ciprofloxacin antibiotic. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 549-55	11.8	72
46	Lateral Flow Immunoassays From Paper Strip to Smartphone Technology. <i>Electroanalysis</i> , 2015 , 27, 2116-2130	3	71
45	Construction of amperometric immunosensors based on the electrogeneration of a permeable biotinylated polypyrrole film. <i>Analytical Chemistry</i> , 2004 , 76, 6808-13	7.8	71
44	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, 219-275	9.5	61
43	Amperometric Algal <i>Chlorella vulgaris</i> Cell Biosensors Based on Alginate and Polypyrrole-Alginate Gels. <i>Electroanalysis</i> , 2006 , 18, 1041-1046	3	59
42	Label-free impedimetric immunosensor for sensitive detection of atrazine. <i>Electrochimica Acta</i> , 2010 , 55, 6228-6232	6.7	57
41	Amperometric immunosensor for the detection of anti-West Nile virus IgG. <i>Analytical Chemistry</i> , 2007 , 79, 8662-8	7.8	55
40	EIS microfluidic chips for flow immunoassay and ultrasensitive cholera toxin detection. <i>Lab on A Chip</i> , 2011 , 11, 658-63	7.2	52
39	Improved enzyme retention from an electropolymerized polypyrrole-alginate matrix in the development of biosensors. <i>Electrochemistry Communications</i> , 2005 , 7, 1277-1282	5.1	43
38	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	2.4	36
37	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		36
36	A polypyrrole cDNA electrode for the amperometric detection of the West Nile Virus. <i>Electrochemistry Communications</i> , 2006 , 8, 1741-1748	5.1	36
35	Sensitive localized surface plasmon resonance multiplexing protocols. <i>Analytical Chemistry</i> , 2012 , 84, 8020-7	7.8	34
34	Fate and Characterization Factors of Nanoparticles in Seventeen Subcontinental Freshwaters: A Case Study on Copper Nanoparticles. <i>Environmental Science & Technology</i> , 2016 , 50, 9370-9	10.3	33

33	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, 221-6	7	31
32	Nanolithography Using Protease Etching of Protein Surfaces. <i>Nano Letters</i> , 2003 , 3, 1639-1642	11.5	31
31	Comparison between the performances of amperometric immunosensors for cholera antitoxin based on three enzyme markers. <i>Talanta</i> , 2005 , 66, 15-20	6.2	30
30	Electroenzymatic polypyrrole-intercalator sensor for the determination of West Nile virus cDNA. <i>Analytical Chemistry</i> , 2006 , 78, 7054-7	7.8	30
29	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	8.5	27
28	Real-time monitoring of copper ions-induced cytotoxicity by EIS cell chips. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2711-6	11.8	24
27	Urease-gelatin interdigitated microelectrodes for the conductometric determination of protease activity. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 489-92	11.8	23
26	Manufacturing of nanochannels with controlled dimensions using protease nanolithography. <i>Nano Letters</i> , 2005 , 5, 821-7	11.5	19
25	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	3.8	18
24	On-line biosensor for the detection of putative toxicity in water contaminants. <i>Talanta</i> , 2015 , 132, 583-96.2	17	
23	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	8.5	17
22	A facile and cost-effective TEM grid approach to design gold nano-structured substrates for high throughput plasmonic sensitive detection of biomolecules. <i>Analyst, The</i> , 2013 , 138, 1015-9	5	11
21	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,	3.8	11
20	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	8.5	11
19	Development of EIS cell chips and their application for cell analysis. <i>Microelectronic Engineering</i> , 2009 , 86, 1477-1480	2.5	11
18	Bioluminescence enhancement through an added washing protocol enabling a greater sensitivity to carbofuran toxicity. <i>Ecotoxicology and Environmental Safety</i> , 2013 , 96, 61-6	7	10
17	Robust SERS Platforms Based on Annealed Gold Nanostructures Formed on Ultrafine Glass Substrates for Various (Bio)Applications. <i>Biosensors</i> , 2019 , 9,	5.9	8
16	Influence of carbon-based nanomaterials on lux-bioreporter <i>Escherichia coli</i> . <i>Talanta</i> , 2014 , 126, 208-13	6.2	8

15	Carbon Cavity Microelectrode for Electrical Wiring of Enzyme by Insoluble Electroactive Species in Aqueous Media. <i>Electroanalysis</i> , 2008 , 20, 750-756	3	6
14	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	3.2	5
13	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	2.5	3
12	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,	5.4	3
11	Measurement of Bacterial Bioluminescence Intensity and Spectrum: Current Physical Techniques and Principles. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2016 , 154, 19-45	1.7	3
10	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	2.5	2
9	Freshwater Sediment Characterization Factors of Copper Oxide Nanoparticles. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017 , 51, 012020	0.3	1
8	Biosensor Platforms for Rapid Detection of <i>E. coli</i> Bacteria 2017 ,		1
7	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	1.9	1
6	Influence of Dissolution on Fate of Nanoparticles in Freshwater. <i>International Journal of Environmental Science and Development</i> , 2017 , 8, 347-354	0.4	1
5	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	5.1	1
4	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,	5.3	1
3	Patterning Large-Scale Nanostructured Microarrays on Coverslip for Sensitive Plasmonic Detection of Aqueous Gliadin Traces. <i>Chemosensors</i> , 2022 , 10, 38	4	0
2	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	3.9	0
1	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	2.3	