Rodica Elena Ionescu

List of Publications by Year in Descending Order

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	Patterning Large-Scale Nanostructured Microarrays on Coverslip for Sensitive Plasmonic Detection of Aqueous Gliadin Traces. *Chemosensors*, **2022**, 10, 38	4	0
49	Quartz Crystal Microbalance Genosensing of Brettanomyces bruxellensis Yeast in Wine Using a Rapid and Efficient Drop and Collect Protocol. *Crystals*, **2021**, 11, 562	2.3	
48	Glucose sensing on reproducible and tunable plasmonic nanostructures formed on annealed coverslips coated with thin layers of gold and indium tin oxide. *Sensors and Actuators A: Physical*, **2021**, 318, 112510	3.9	0
47	Acoustic Multi-Detection of Gliadin Using QCM Crystals Patterned with Controlled Sectors of TEM Grid and Annealed Nanoislands on Gold Electrode. *Nanomaterials*, **2020**, 10,	5.4	3
46	Surface enhanced Raman spectroscopy phylogenetic tree for genosensing of Brettanomyces bruxellensis yeast on nanostructured ultrafine glass supports. *Optik*, **2020**, 203, 163956	2.5	2
45	Facile, wafer-scale compatible growth of ZnO nanowires via chemical bath deposition: assessment of zinc ion contribution and other limiting factors. *Nanoscale Advances*, **2020**, 2, 5288-5295	5.1	1
44	Influence of Saline Buffers over the Stability of High-Annealed Gold Nanoparticles Formed on Coverslips for Biological and Chemosensing Applications. *Bioengineering*, **2020**, 7,	5.3	1
43	Robust SERS Platforms Based on Annealed Gold Nanostructures Formed on Ultrafine Glass Substrates for Various (Bio)Applications. *Biosensors*, **2019**, 9,	5.9	8
42	Impact of copper nanoparticles on porcine neutrophils: ultrasensitive characterization factor combining chemiluminescence information and USEtox assessment model. *Materials Today Communications*, **2017**, 11, 68-75	2.5	3
41	Freshwater Sediment Characterization Factors of Copper Oxide Nanoparticles. *IOP Conference Series: Earth and Environmental Science*, **2017**, 51, 012020	0.3	1
40	Biosensor Platforms for Rapid Detection of E. coli Bacteria **2017**,		1
39	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. *Sensors*, **2017**, 17,	3.8	11
38	Influence of Dissolution on Fate of Nanoparticles in Freshwater. *International Journal of Environmental Science and Development*, **2017**, 8, 347-354	0.4	1
37	Development of localized surface plasmon resonance biosensors for the detection of Brettanomyces bruxellensis in wine. *Sensors and Actuators B: Chemical*, **2016**, 223, 295-300	8.5	27
36	Electrochemical lateral flow immunosensor for detection and quantification of dengue NS1 protein. *Biosensors and Bioelectronics*, **2016**, 77, 400-8	11.8	96
35	Measurement of Bacterial Bioluminescence Intensity and Spectrum: Current Physical Techniques and Principles. *Advances in Biochemical Engineering/Biotechnology*, **2016**, 154, 19-45	1.7	3
34	Fate and Characterization Factors of Nanoparticles in Seventeen Subcontinental Freshwaters: A Case Study on Copper Nanoparticles. *Environmental Science & Technology*, **2016**, 50, 9370-9	10.3	33

33	On-line biosensor for the detection of putative toxicity in water contaminants. *Talanta*, **2015**, 132, 583-90	6.2	17
32	Lateral Flow Immunoassays – From Paper Strip to Smartphone Technology. *Electroanalysis*, **2015**, 27, 2116-2130	3	71
31	Fixed Escherichia coli bacterial templates enable the production of sensitive SERS-based gold nanostructures. *Sensors and Actuators B: Chemical*, **2015**, 211, 213-219	8.5	11
30	Influence of carbon-based nanomaterials on lux-bioreporter Escherichia coli. *Talanta*, **2014**, 126, 208-13	6.2	8
29	Strong improvements of localized surface plasmon resonance sensitivity by using Au/Ag bimetallic nanostructures modified with polydopamine films. *ACS Applied Materials & Interfaces*, **2014**, 6, 219-27	8.5	61
28	Sequential acoustic detection of atrazine herbicide and carbofuran insecticide using a single micro-structured gold quartz crystal microbalance. *Sensors and Actuators B: Chemical*, **2013**, 188, 400-404	8.5	17
27	Bioluminescence enhancement through an added washing protocol enabling a greater sensitivity to carbofuran toxicity. *Ecotoxicology and Environmental Safety*, **2013**, 96, 61-6	7	10
26	A facile and cost-effective TEM grid approach to design gold nano-structured substrates for high throughput plasmonic sensitive detection of biomolecules. *Analyst, The*, **2013**, 138, 1015-9	5	11
25	Large Scale Fabrication of Gold Nano-Structured Substrates Via High Temperature Annealing and Their Direct Use for the LSPR Detection of Atrazine. *Plasmonics*, **2013**, 8, 143-151	2.4	36
24	Sensitive localized surface plasmon resonance multiplexing protocols. *Analytical Chemistry*, **2012**, 84, 8020-7	7.8	34
23	A lower limit of detection for atrazine was obtained using bioluminescent reporter bacteria via a lower incubation temperature. *Ecotoxicology and Environmental Safety*, **2012**, 84, 221-6	7	31
22	Fabrication of an atrazine acoustic immunosensor based on a drop-deposition procedure. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 2015-21	3.2	5
21	EIS microfluidic chips for flow immunoassay and ultrasensitive cholera toxin detection. *Lab on A Chip*, **2011**, 11, 658-63	7.2	52
20	Real-time monitoring of copper ions-induced cytotoxicity by EIS cell chips. *Biosensors and Bioelectronics*, **2010**, 25, 2711-6	11.8	24
19	Label-free impedimetric immunosensor for sensitive detection of atrazine. *Electrochimica Acta*, **2010**, 55, 6228-6232	6.7	57
18	Development of EIS cell chips and their application for cell analysis. *Microelectronic Engineering*, **2009**, 86, 1477-1480	2.5	11
17	Aqueous dispersions of SWCNTs using pyrrolic surfactants for the electro-generation of homogeneous nanotube composites. Application to the design of an amperometric biosensor. *Journal of Materials Chemistry*, **2008**, 18, 5129		36
16	Urease-gelatin interdigitated microelectrodes for the conductometric determination of protease activity. *Biosensors and Bioelectronics*, **2008**, 24, 489-92	11.8	23

15	Carbon Cavity Microelectrode for Electrical Wiring of Enzyme by Insoluble Electroactive Species in Aqueous Media. *Electroanalysis*, **2008**, 20, 750-756	3	6
14	Amperometric immunosensor for the detection of anti-West Nile virus IgG using a photoactive copolymer. *Enzyme and Microbial Technology*, **2007**, 40, 403-408	3.8	18
13	Impedimetric immunosensor for the specific label free detection of ciprofloxacin antibiotic. *Biosensors and Bioelectronics*, **2007**, 23, 549-55	11.8	72
12	Procedure 26 Construction of amperometric immunosensors for the analysis of cholera antitoxin and comparison of the performances between three different enzyme markers. *Comprehensive Analytical Chemistry*, **2007**, e185-e194	1.9	1
11	Amperometric immunosensor for the detection of anti-West Nile virus IgG. *Analytical Chemistry*, **2007**, 79, 8662-8	7.8	55
10	Amperometric Algal Chlorella vulgaris Cell Biosensors Based on Alginate and Polypyrrole-Alginate Gels. *Electroanalysis*, **2006**, 18, 1041-1046	3	59
9	Electroenzymatic polypyrrole-intercalator sensor for the determination of West Nile virus cDNA. *Analytical Chemistry*, **2006**, 78, 7054-7	7.8	30
8	A polypyrrole cDNA electrode for the amperometric detection of the West Nile Virus. *Electrochemistry Communications*, **2006**, 8, 1741-1748	5.1	36
7	Protease amperometric sensor. *Analytical Chemistry*, **2006**, 78, 6327-31	7.8	81
6	Manufacturing of nanochannels with controlled dimensions using protease nanolithography. *Nano Letters*, **2005**, 5, 821-7	11.5	19
5	Comparison between the performances of amperometric immunosensors for cholera antitoxin based on three enzyme markers. *Talanta*, **2005**, 66, 15-20	6.2	30
4	Synthesis and characterization of a pyrrole-alginate conjugate and its application in a biosensor construction. *Biomacromolecules*, **2005**, 6, 3313-8	6.9	78
3	Improved enzyme retention from an electropolymerized polypyrrole-alginate matrix in the development of biosensors. *Electrochemistry Communications*, **2005**, 7, 1277-1282	5.1	43
2	Construction of amperometric immunosensors based on the electrogeneration of a permeable biotinylated polypyrrole film. *Analytical Chemistry*, **2004**, 76, 6808-13	7.8	71
1	Nanolithography Using Protease Etching of Protein Surfaces. *Nano Letters*, **2003**, 3, 1639-1642	11.5	31