Rodica Elena Ionescu

List of Publications by Year
in descending order

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	Patterning Large-Scale Nanostructured Microarrays on Coverslip for Sensitive Plasmonic Detection of Aqueous Gliadin Traces. Chemosensors, 2022, 10, 38.	3.6	3
2	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.	4.1	4
3	Chemosensing on Miniaturized Plasmonic Substrates. Micromachines, 2021, 12, 275.	2.9	0
4	Quartz Crystal Microbalance Genosensing of Brettanomyces bruxellensis Yeast in Wine Using a Rapid and Efficient Drop and Collect Protocol. Crystals, 2021, 11, 562.	2.2	0
5	Surface enhanced Raman spectroscopy phylogenetic tree for genosensing of Brettanomyces bruxellensis yeast on nanostructured ultrafine glass supports. Optik, 2020, 203, 163956.	2.9	4
6	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.	4.6	3
7	Influence of Saline Buffers over the Stability of High-Annealed Gold Nanoparticles Formed on Coverslips for Biological and Chemosensing Applications. Bioengineering, 2020, 7, 68.	3.5	3
8	Acoustic Multi-Detection of Gliadin Using QCM Crystals Patterned with Controlled Sectors of TEM Grid and Annealed Nanoislands on Gold Electrode. Nanomaterials, 2020, 10, 790.	4.1	4
9	Robust SERS Platforms Based on Annealed Gold Nanostructures Formed on Ultrafine Glass Substrates for Various (Bio)Applications. Biosensors, 2019, 9, 53.	4.7	15
10	Microwave Spectroscopic Detection of Human Hsp70 Protein on Annealed Gold Nanostructures on ITO Glass Strips. Biosensors, 2018, 8, 118.	4.7	0
11	Impact of copper nanoparticles on porcine neutrophils: ultrasensitive characterization factor combining chemiluminescence information and USEtox assessment model. Materials Today Communications, 2017, 11, 68-75.	1.9	7
12	Freshwater Sediment Characterization Factors of Copper Oxide Nanoparticles. IOP Conference Series: Earth and Environmental Science, 2017, 51, 012020.	0.3	2
13	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, 236.	3.8	14
14	Biosensor Platforms for Rapid Detection of E. coli Bacteria. , 2017, , .		1
15	Influence of Dissolution on Fate of Nanoparticles in Freshwater. International Journal of Environmental Science and Development, 2017, 8, 347-354.	0.6	1
16	Fate and Characterization Factors of Nanoparticles in Seventeen Subcontinental Freshwaters: A Case Study on Copper Nanoparticles. Environmental Science & Technology, 2016, 50, 9370-9379.	10.0	44
17	Electrochemical lateral flow immunosensor for detection and quantification of dengue NS1 protein. Biosensors and Bioelectronics, 2016, 77, 400-408.	10.1	122
18	Development of localized surface plasmon resonance biosensors for the detection of Brettanomyces bruxellensis in wine. Sensors and Actuators B: Chemical, 2016, 223, 295-300.	7.8	35

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19	Nanostructured metallic supports as ultrasensitive platforms for sequential plasmonic and acoustic detection of biomolecules. Journal of Biotechnology, 2015, 208, S27.	3.8	0
20	Lateral Flow Immunoassays â€“ from Paper Strip to Smartphone Technology. Electroanalysis, 2015, 27, 2116-2130.	2.9	89
21	Measurement of Bacterial Bioluminescence Intensity and Spectrum: Current Physical Techniques and Principles. Advances in Biochemical Engineering/Biotechnology, 2015, 154, 19-45.	1.1	4
22	Fixed Escherichia coli bacterial templates enable the production of sensitive SERS-based gold nanostructures. Sensors and Actuators B: Chemical, 2015, 211, 213-219.	7.8	14
23	On-line biosensor for the detection of putative toxicity in water contaminants. Talanta, 2015, 132, 583-590.	5.5	23
24	Influence of carbon-based nanomaterials on lux-bioreporter Escherichia coli. Talanta, 2014, 126, 208-213.	5.5	10
25	Strong Improvements of Localized Surface Plasmon Resonance Sensitivity by Using Au/Ag Bimetallic Nanostructures Modified with Polydopamine Films. ACS Applied Materials & Interfaces, 2014, 6, 219-227.	8.0	73
26	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.	7.8	18
27	Bioluminescence enhancement through an added washing protocol enabling a greater sensitivity to carbofuran toxicity. Ecotoxicology and Environmental Safety, 2013, 96, 61-66.	6.0	11
28	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.	3.5	12
29	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.	3.4	51
30	Fabrication of an atrazine acoustic immunosensor based on a drop-deposition procedure. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2015-21.	3.0	8
31	Sensitive Localized Surface Plasmon Resonance Multiplexing Protocols. Analytical Chemistry, 2012, 84, 8020-8027.	6.5	41
32	A lower limit of detection for atrazine was obtained using bioluminescent reporter bacteria via a lower incubation temperature. Ecotoxicology and Environmental Safety, 2012, 84, 221-226.	6.0	41
33	EIS microfluidic chips for flow immunoassay and ultrasensitive cholera toxin detection. Lab on A Chip, 2011, 11, 658-663.	6.0	59
34	Acoustic biosensors for medical and environmental purposes. , 2011, , .		0
35	Real-time monitoring of copper ions-induced cytotoxicity by EIS cell chips. Biosensors and Bioelectronics, 2010, 25, 2711-2716.	10.1	30
36	Label-free impedimetric immunosensor for sensitive detection of atrazine. Electrochimica Acta, 2010, 55, 6228-6232.	5.2	62

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37	Development of EIS cell chips and their application for cell analysis. Microelectronic Engineering, 2009, 86, 1477-1480.	2.4	14
38	Ureaseâ€“gelatin interdigitated microelectrodes for the conductometric determination of protease activity. Biosensors and Bioelectronics, 2008, 24, 489-492.	10.1	26
39	Carbon Cavity Microelectrode for Electrical Wiring of Enzyme by Insoluble Electroactive Species in Aqueous Media. Electroanalysis, 2008, 20, 750-756.	2.9	6
40	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.	6.7	36
41	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.	1.3	2
42	Amperometric Immunosensor for the Detection of Anti-West Nile Virus IgG. Analytical Chemistry, 2007, 79, 8662-8668.	6.5	62
43	Amperometric immunosensor for the detection of anti-West Nile virus IgG using a photoactive copolymer. Enzyme and Microbial Technology, 2007, 40, 403-408.	3.2	21
44	Impedimetric immunosensor for the specific label free detection of ciprofloxacin antibiotic. Biosensors and Bioelectronics, 2007, 23, 549-555.	10.1	84
45	Electroenzymatic Polypyrrole-intercalator Sensor for the Determination of West Nile Virus cDNA. Analytical Chemistry, 2006, 78, 7054-7057.	6.5	36
46	A polypyrrole cDNA electrode for the amperometric detection of the West Nile Virus. Electrochemistry Communications, 2006, 8, 1741-1748.	4.7	39
47	Protease Amperometric Sensor. Analytical Chemistry, 2006, 78, 6327-6331.	6.5	92
48	Amperometric AlgalChlorella vulgaris Cell Biosensors Based on Alginate and Polypyrrole-Alginate Gels. Electroanalysis, 2006, 18, 1041-1046.	2.9	63
49	Improved enzyme retention from an electropolymerized polypyrrole-alginate matrix in the development of biosensors. Electrochemistry Communications, 2005, 7, 1277-1282.	4.7	44
50	Manufacturing of Nanochannels with Controlled Dimensions Using Protease Nanolithography. Nano Letters, 2005, 5, 821-827.	9.1	27
51	Comparison between the performances of amperometric immunosensors for cholera antitoxin based on three enzyme markersâ˜†. Talanta, 2005, 66, 15-20.	5.5	34
52	Synthesis and Characterization of a Pyrroleâ^'Alginate Conjugate and Its Application in a Biosensor Construction. Biomacromolecules, 2005, 6, 3313-3318.	5.4	94
53	Construction of Amperometric Immunosensors Based on the Electrogeneration of a Permeable Biotinylated Polypyrrole Film. Analytical Chemistry, 2004, 76, 6808-6813.	6.5	79
54	Nanolithography Using Protease Etching of Protein Surfaces. Nano Letters, 2003, 3, 1639-1642.	9.1	41