

# Arunas Ramanavicius

## List of Publications by Citations

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279  
papers

8,194  
citations

49  
h-index

72  
g-index

300  
ext. papers

9,978  
ext. citations

5.4  
avg, IF

6.9  
L-index

#	Paper	IF	Citations
279	Biocompatibility of polypyrrole particles: an in-vivo study in mice. <i>Journal of Pharmacy and Pharmacology</i> , <b>2007</b> , 59, 311-5	4.8	228
278	Site-directed antibody immobilization techniques for immunosensors. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 50, 460-71	11.8	207
277	Molecularly imprinted polypyrrole-based synthetic receptor for direct detection of bovine leukemia virus glycoproteins. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 20, 1076-82	11.8	191
276	Biofuel cell based on direct bioelectrocatalysis. <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 20, 1962-7	11.8	165
275	Magnetic gold nanoparticles in SERS-based sandwich immunoassay for antigen detection by well oriented antibodies. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 43, 281-8	11.8	138
274	Polypyrrole-entrapped quinohemoprotein alcohol dehydrogenase. Evidence for direct electron transfer via conducting-polymer chains. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 3581-6	7.8	138
273	EDTA_PANI/SWCNTs nanocomposite modified electrode for electrochemical determination of copper (II), lead (II) and mercury (II) ions. <i>Electrochimica Acta</i> , <b>2018</b> , 259, 930-938	6.7	125
272	Polypyrrole-coated glucose oxidase nanoparticles for biosensor design. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 111-112, 532-539	8.5	111
271	An Oxygen-Insensitive Reagentless Glucose Biosensor Based on Osmium-Complex Modified Polypyrrole. <i>Electroanalysis</i> , <b>2000</b> , 12, 1383-1389	3	110
270	Enzymatic biofuel cell based on anode and cathode powered by ethanol. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 24, 767-72	11.8	109
269	Gold nanoparticle and conducting polymer-polyaniline-based nanocomposites for glucose biosensor design. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 189, 187-193	8.5	105
268	Direct electron transfer from glucose oxidase immobilized on polyphenanthroline-modified glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 2541-6	11.8	105
267	Pulsed amperometric detection of DNA with an ssDNA/polypyrrole-modified electrode. <i>Analytical and Bioanalytical Chemistry</i> , <b>2004</b> , 379, 287-93	4.4	103
266	Polymerization model for hydrogen peroxide initiated synthesis of polypyrrole nanoparticles. <i>Langmuir</i> , <b>2011</b> , 27, 10970-6	4	97
265	Evaluation of cytotoxicity of polypyrrole nanoparticles synthesized by oxidative polymerization. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 250-251, 167-74	12.8	96
264	Tuning Optical Properties of Al <sub>2</sub> O <sub>3</sub> /ZnO Nanolaminates Synthesized by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3811-3819	3.8	94
263	Hybrid electrochemical/electrochromic Cu(II) ion sensor prototype based on PANI/ITO-electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 248, 527-535	8.5	93

262	Composites Based on Conducting Polymers and Carbon Nanomaterials for Heavy Metal Ion Sensing (Review). <i>Critical Reviews in Analytical Chemistry</i> , <b>2018</b> , 48, 293-304	5.2	87
261	Conducting Polymers in the Design of Biosensors and Biofuel Cells. <i>Polymers</i> , <b>2020</b> , 13,	4.5	82
260	Enhancement of Electronic and Optical Properties of ZnO/Al <sub>2</sub> O <sub>3</sub> Nanolaminate Coated Electrospun Nanofibers. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 5124-5132	3.8	80
259	Evaluation of amperometric glucose biosensors based on glucose oxidase encapsulated within enzymatically synthesized polyaniline and polypyrrole. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 158, 278-285	8.5	80
258	Enzymatically synthesized polyaniline layer for extension of linear detection region of amperometric glucose biosensor. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 790-7	11.8	80
257	Wiring of PQQ-dehydrogenases. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 20, 1217-22	11.8	78
256	Glucose biosensor based on graphite electrodes modified with glucose oxidase and colloidal gold nanoparticles. <i>Mikrochimica Acta</i> , <b>2010</b> , 168, 221-229	5.8	75
255	Glucose biosensor based on glucose oxidase and gold nanoparticles of different sizes covered by polypyrrole layer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 413, 224-230	5.1	70
254	EDTA-modified PANI/SWNTs nanocomposite for differential pulse voltammetry based determination of Cu(II) ions. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 260, 331-338	8.5	69
253	Tuning of Structural and Optical Properties of Graphene/ZnO Nanolaminates. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 23716-23725	3.8	68
252	Copper nanoparticle modified carbon electrode for determination of dopamine. <i>Electrochimica Acta</i> , <b>2012</b> , 76, 201-207	6.7	66
251	Characterization of caffeine-imprinted polypyrrole by a quartz crystal microbalance and electrochemical impedance spectroscopy. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 212, 63-71	8.5	66
250	Analytical, thermodynamical and kinetic characteristics of photoluminescence immunosensor for the determination of Ochratoxin A. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 99, 237-243	11.8	65
249	Bioelectrochemical application of some PQQ-dependent enzymes. <i>Bioelectrochemistry</i> , <b>2002</b> , 55, 29-32	5.6	63
248	Polyphenol-modified glassy carbon electrodes for copper detection. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 152, 37-48	8.5	62
247	Electrochemical deposition of gold nanoparticles on graphite rod for glucose biosensing. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 203, 25-34	8.5	61
246	Electrochemical formation of polypyrrole-based layer for immunosensor design. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 197, 237-243	8.5	60
245	Molecularly Imprinted Polypyrrole Based Impedimetric Sensor for Theophylline Determination. <i>Electrochimica Acta</i> , <b>2014</b> , 130, 361-367	6.7	59

244	Electrochemical Impedance Spectroscopy Based Evaluation of 1,10-Phenanthroline-5,6-dione and Glucose Oxidase Modified Graphite Electrode. <i>Electrochimica Acta</i> , <b>2014</b> , 146, 659-665	6.7	57
243	Evaluation of intact- and fragmented-antibody based immunosensors by total internal reflection ellipsometry. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 160, 555-562	8.5	57
242	Basic Electrochemistry Meets Nanotechnology: Electrochemical Preparation of Artificial Receptors Based on Nanostructured Conducting Polymer, Polypyrrole. <i>Journal of Chemical Education</i> , <b>2006</b> , 83, 1212	2.4	57
241	Amperometric Glucose Biosensor Based on Electrochemically Deposited Gold Nanoparticles Covered by Polypyrrole. <i>Electroanalysis</i> , <b>2017</b> , 29, 1267-1277	3	56
240	AFM study of conducting polymer polypyrrole nanoparticles formed by redox enzyme - glucose oxidase - initiated polymerisation. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2006</b> , 48, 159-66	6	56
239	The use of different glucose oxidases for the development of an amperometric reagentless glucose biosensor based on gold nanoparticles covered by polypyrrole. <i>Electrochimica Acta</i> , <b>2015</b> , 169, 326-333	6.7	54
238	Self-encapsulation of oxidases as a basic approach to tune the upper detection limit of amperometric biosensors. <i>Analyst, The</i> , <b>2008</b> , 133, 1083-9	5	54
237	Advances in Molecularly Imprinted Polymers Based Affinity Sensors (Review). <i>Polymers</i> , <b>2021</b> , 13,	4.5	54
236	Comparative study of surface plasmon resonance, electrochemical and electroassisted chemiluminescence methods based immunosensor for the determination of antibodies against human growth hormone. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 36, 48-55	11.8	53
235	Antibacterial and antifungal activity of silver nanospheres synthesized by tri-sodium citrate assisted chemical approach. <i>Vacuum</i> , <b>2017</b> , 146, 259-265	3.7	51
234	An electrochemical and computational study for discrimination of D- and L-cystine by reduced graphene oxide/ $\beta$ -cyclodextrin. <i>Analyst, The</i> , <b>2015</b> , 140, 313-21	5	51
233	The substrate matters in the Raman spectroscopy analysis of cells. <i>Scientific Reports</i> , <b>2015</b> , 5, 13150	4.9	51
232	Study of antibody/antigen binding kinetics by total internal reflection ellipsometry. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 39, 170-6	11.8	50
231	Surface plasmon resonance label-free monitoring of antibody antigen interactions in real time. <i>Biochemistry and Molecular Biology Education</i> , <b>2007</b> , 35, 57-63	1.3	50
230	Molecularly Imprinted Polypyrrole for DNA Determination. <i>Electroanalysis</i> , <b>2013</b> , 25, 1169-1177	3	49
229	Towards microbial biofuel cells: Improvement of charge transfer by self-modification of microorganisms with conducting polymer [Polypyrrole]. <i>Chemical Engineering Journal</i> , <b>2019</b> , 356, 1014-1021	14.7	49
228	Toward development of optical biosensors based on photoluminescence of TiO <sub>2</sub> nanoparticles for the detection of Salmonella. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 252, 95-102	8.5	48
227	Tailoring the Structural, Optical, and Photoluminescence Properties of Porous Silicon/TiO <sub>2</sub> Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 7164-7171	3.8	47

226	Evaluation of chemical synthesis of polypyrrole particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 483, 224-231	5.1	47
225	Application of oriented and random antibody immobilization methods in immunosensor design. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 189, 217-223	8.5	47
224	Some biocompatibility aspects of conducting polymer polypyrrole evaluated with bone marrow-derived stem cells. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2014</b> , 442, 152-156	5.1	46
223	Immunosensor based on fluorescence quenching matrix of the conducting polymer polypyrrole. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 3105-13	4.4	45
222	Electrochemical modification of glassy carbon electrode by poly-4-nitroaniline and its application for determination of copper(II). <i>Electrochimica Acta</i> , <b>2010</b> , 56, 387-395	6.7	45
221	Formation of Polyaniline and Polypyrrole Nanocomposites with Embedded Glucose Oxidase and Gold Nanoparticles. <i>Polymers</i> , <b>2019</b> , 11,	4.5	44
220	Electrochromic Sensors Based on Conducting Polymers, Metal Oxides, and Coordination Complexes. <i>Critical Reviews in Analytical Chemistry</i> , <b>2019</b> , 49, 195-208	5.2	44
219	Charge Transfer and Biocompatibility Aspects in Conducting Polymer-Based Enzymatic Biosensors and Biofuel Cells. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	44
218	Biofuel cell based on glucose oxidase from <i>Penicillium funiculosum</i> 46.1 and horseradish peroxidase. <i>Chemical Engineering Journal</i> , <b>2015</b> , 264, 165-173	14.7	43
217	ZnO films formed by atomic layer deposition as an optical biosensor platform for the detection of Grapevine virus A-type proteins. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 92, 763-769	11.8	43
216	Porous silicon based photoluminescence immunosensor for rapid and highly-sensitive detection of Ochratoxin A. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 102, 661-667	11.8	43
215	Fast Fourier transformation electrochemical impedance spectroscopy for the investigation of inactivation of glucose biosensor based on graphite electrode modified by Prussian blue, polypyrrole and glucose oxidase. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 329, 145-174	5.1	42
214	Single-step procedure for the modification of graphite electrode by composite layer based on polypyrrole, Prussian blue and glucose oxidase. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 240, 220-223	8.5	42
213	Gold coated porous silicon nanocomposite as a substrate for photoluminescence-based immunosensor suitable for the determination of Aflatoxin B1. <i>Talanta</i> , <b>2017</b> , 175, 297-304	6.2	41
212	Electrochemical Determination of Cu(II) Ions by 4-Formylphenylboronic Acid Modified Gold Electrode. <i>Electroanalysis</i> , <b>2011</b> , 23, 1645-1653	3	41
211	Surface plasmon resonance biosensor for direct detection of antibodies against human growth hormone. <i>Analyst</i> , <b>2009</b> , 134, 2051-7	5	41
210	Photoluminescence immunosensor based on bovine leukemia virus proteins immobilized on the ZnO nanorods. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 285, 601-606	8.5	41
209	Electrochemical stability and repulsion of polypyrrole film. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2013</b> , 418, 16-21	5.1	40

208	Synthesis of polypyrrole within the cell wall of yeast by redox-cycling of [Fe(CN) <sub>6</sub> ] <sup>3-</sup> /[Fe(CN) <sub>6</sub> ] <sup>4-</sup> . <i>Enzyme and Microbial Technology</i> , <b>2016</b> , 83, 40-7	3.8	39
207	Biofuel Cell Based on Anode and Cathode Modified by Glucose Oxidase. <i>Electroanalysis</i> , <b>2013</b> , 25, 2677-2683		39
206	ZnO/polyaniline composite based photoluminescence sensor for the determination of acetic acid vapor. <i>Talanta</i> , <b>2020</b> , 211, 120658	6.2	39
205	Comparative study of antifungal activity of silver and gold nanoparticles synthesized by facile chemical approach. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 5837-5844	6.8	38
204	Enzymatic polymerization of polythiophene by immobilized glucose oxidase. <i>Polymer</i> , <b>2014</b> , 55, 1613-1620	3.9	38
203	Square wave voltammetry based on determination of copper (II) ions by polylyuteolin- and polykaempferol-modified electrodes. <i>Talanta</i> , <b>2011</b> , 85, 1020-7	6.2	37
202	Amperometric nonenzymatic glucose biosensor based on graphite rod electrode modified by Ni-nanoparticle/polypyrrole composite. <i>Microchemical Journal</i> , <b>2021</b> , 161, 105751	4.8	37
201	Insights in the Application of Stoichiometric and Non-Stoichiometric Titanium Oxides for the Design of Sensors for the Determination of Gases and VOCs (TiO and TiO vs. TiO). <i>Sensors</i> , <b>2020</b> , 20,	3.8	35
200	Phenanthroline derivatives electrochemically grafted to glassy carbon for Cu(II) ion detection. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 166-167, 117-127	8.5	35
199	The effect of colloidal solutions of gold nanoparticles on the performance of a glucose oxidase modified carbon electrode. <i>Mikrochimica Acta</i> , <b>2011</b> , 172, 185-191	5.8	35
198	Photoelectrochemical Bisphenol S Sensor Based on ZnO-Nanoroads Modified by Molecularly Imprinted Polypyrrole. <i>Macromolecular Chemistry and Physics</i> , <b>2020</b> , 221, 1900232	2.6	35
197	Evaluation of Electron Transfer in Electrochemical System Based on Immobilized Gold Nanoparticles and Glucose Oxidase. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, G45-G49	3.9	34
196	Formation and Electrochemical Evaluation of Polyaniline and Polypyrrole Nanocomposites Based on Glucose Oxidase and Gold Nanostructures. <i>Polymers</i> , <b>2020</b> , 12,	4.5	34
195	Bioelectrocatalytic reduction of oxygen at gold nanoparticles modified with laccase. <i>Bioelectrochemistry</i> , <b>2014</b> , 95, 1-6	5.6	34
194	Evaluation of Histamine Imprinted Polypyrrole Deposited on Boron Doped Nanocrystalline Diamond. <i>Electroanalysis</i> , <b>2014</b> , 26, 2458-2464	3	34
193	Evaluation of electrochemical quartz crystal microbalance based sensor modified by uric acid-imprinted polypyrrole. <i>Talanta</i> , <b>2020</b> , 220, 121414	6.2	34
192	Comparative study of polyaniline (PANI), poly(3,4-ethylenedioxythiophene) (PEDOT) and PANI-PEDOT films electrochemically deposited on transparent indium thin oxide based electrodes. <i>Polymer</i> , <b>2019</b> , 172, 133-141	3.9	33
191	Progress and Insights in the Application of MXenes as New 2D Nano-Materials Suitable for Biosensors and Biofuel Cell Design. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	33

190	Quartz crystal microbalance-based evaluation of the electrochemical formation of an aggregated polypyrrole particle-based layer. <i>Langmuir</i> , <b>2015</b> , 31, 3186-93	4	32
189	Reagent-less amperometric glucose biosensor based on nanobiocomposite consisting of poly(1,10-phenanthroline-5,6-dione), poly(pyrrole-2-carboxylic acid), gold nanoparticles and glucose oxidase. <i>Microchemical Journal</i> , <b>2020</b> , 154, 104665	4.8	32
188	Amperometric immunosensor for diagnosis of BLV infection. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 23, 1547-54	11.8	32
187	TiO/TiO-Structure Based 'Self-Heated' Sensor for the Determination of Some Reducing Gases. <i>Sensors</i> , <b>2019</b> , 20,	3.8	32
186	Towards supercapacitors: Cyclic voltammetry and fast Fourier transform electrochemical impedance spectroscopy based evaluation of polypyrrole electrochemically deposited on the pencil graphite electrode. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 610, 125750	5.1	31
185	1,10-Phenanthroline derivatives as mediators for glucose oxidase. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 267-70	11.8	30
184	Evaluation of enzymatic formation of polyaniline nanoparticles. <i>Polymer</i> , <b>2017</b> , 115, 211-216	3.9	29
183	Evaluation of theophylline imprinted polypyrrole film. <i>Synthetic Metals</i> , <b>2015</b> , 209, 206-211	3.6	29
182	Modification of <i>Aspergillus niger</i> by conducting polymer, Polypyrrole, and the evaluation of electrochemical properties of modified cells. <i>Bioelectrochemistry</i> , <b>2018</b> , 121, 46-55	5.6	29
181	Nanocomposite Platform Based on EDTA Modified Ppy/SWNTs for the Sensing of Pb(II) Ions by Electrochemical Method. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 451	5	29
180	The application of DNA polymerases and Cas9 as representative of DNA-modifying enzymes group in DNA sensor design (review). <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 175, 112867	11.8	28
179	Cell-assisted synthesis of conducting polymer - polypyrrole - for the improvement of electric charge transfer through fungal cell wall. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 175, 671-679	6	27
178	Electrochemical determination of Cu(II) ions using glassy carbon electrode modified by some nanomaterials and 3-nitroaniline. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 483, 279-284	5.1	27
177	Electrochemical copper (II) sensor based on self-assembled 4-amino-6-hydroxy-2-mercaptopyrimidine monohydrate. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 155, 612-617	8.5	27
176	Affinity Sensors for the Diagnosis of COVID-19. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	27
175	Enzymatic Formation of Polyaniline, Polypyrrole, and Polythiophene Nanoparticles with Embedded Glucose Oxidase. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	26
174	Tuning the optical pH sensing properties of polyaniline-based layer by electrochemical copolymerization of aniline with o-phenylenediamine. <i>Dyes and Pigments</i> , <b>2019</b> , 170, 107457	4.6	26
173	An Amperometric Glucose Biosensor Based on Poly (Pyrrole-2-Carboxylic Acid)/Glucose Oxidase Biocomposite. <i>Electroanalysis</i> , <b>2018</b> , 30, 1642-1652	3	26

172	Scanning electrochemical impedance microscopy for investigation of glucose oxidase catalyzed reaction. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 126, 598-602	6	26
171	Formation and Electrochemical Characterisation of Enzyme-Assisted Formation of Polypyrrole and Polyaniline Nanocomposites with Embedded Glucose Oxidase and Gold Nanoparticles. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 165501	3.9	26
170	An Application of Conducting Polymer Polypyrrole for the Design of Electrochromic pH and CO <sub>2</sub> Sensors. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, B297-B303	3.9	25
169	Considerations in producing preferentially reduced half-antibody fragments. <i>Journal of Immunological Methods</i> , <b>2016</b> , 429, 50-6	2.5	25
168	1,10-Phenanthroline modified glassy carbon electrode for voltammetric determination of cadmium(II) ions. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 157, 146-153	8.5	25
167	Capacitive micromachined ultrasound transducer (cMUT) for immunosensor design. <i>Analyst, The</i> , <b>2010</b> , 135, 1531-4	5	25
166	Insights into a hole transfer mechanism between glucose oxidase and a p-type organic semiconductor. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 102, 449-455	11.8	25
165	Potentiometric study of quinohemoprotein alcohol dehydrogenase immobilized on the carbon rod electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 113, 435-444	8.5	24
164	Electrodeposited Gold Nanostructures for the Enhancement of Electrochromic Properties of PANI-PEDOT Film Deposited on Transparent Electrode. <i>Polymers</i> , <b>2020</b> , 12,	4.5	24
163	Yeast-assisted synthesis of polypyrrole: Quantification and influence on the mechanical properties of the cell wall. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 164, 224-231	6	23
162	Synthesis of polypyrrole microspheres by <i>Streptomyces</i> spp.. <i>Polymer</i> , <b>2016</b> , 84, 99-106	3.9	23
161	Towards the application of Al <sub>2</sub> O <sub>3</sub> /ZnO nanolaminates in immunosensors: total internal reflection spectroscopic ellipsometry based evaluation of BSA immobilization. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 8778-8783	7.1	23
160	Resonant gravimetric immunosensing based on capacitive micromachined ultrasound transducers. <i>Mikrochimica Acta</i> , <b>2014</b> , 181, 1749-1757	5.8	23
159	Analytical Evaluation of Optical pH-Sensitivity of Polyaniline Layer Electrochemically Deposited on ITO Electrode. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, H903-H907	3.9	23
158	9,10-Phenanthrenequinone as a redox mediator for the imaging of yeast cells by scanning electrochemical microscopy. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 228, 200-206	8.5	22
157	A New Experimental Model for Neuronal and Glial Differentiation Using Stem Cells Derived from Human Exfoliated Deciduous Teeth. <i>Journal of Molecular Neuroscience</i> , <b>2013</b> , 51, 307	3.3	22
156	Electrochemical polypyrrole formation from pyrrole 'adlayer'. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 1029-1038	3.6	22
155	Simultaneous and Sequential Synthesis of Polyaniline-g-poly(ethylene glycol) by Combination of Oxidative Polymerization and CuAAC Click Chemistry: A Water-Soluble Instant Response Glucose Biosensor Material. <i>Macromolecules</i> , <b>2017</b> , 50, 1824-1831	5.5	21

154	Impact of differently modified nanocrystalline diamond on the growth of neuroblastoma cells. <i>New Biotechnology</i> , <b>2015</b> , 32, 7-12	6.4	21
153	Prussian White-Based Optical Glucose Biosensor. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, B927-B932	3.9	21
152	Electric field-induced effects on yeast cell wall permeabilization. <i>Bioelectromagnetics</i> , <b>2014</b> , 35, 136-44	1.6	21
151	Large-scale self-organized gold nanostructures with bidirectional plasmon resonances for SERS.. <i>RSC Advances</i> , <b>2018</b> , 8, 22569-22576	3.7	21
150	Molecularly imprinted polypyrrole based sensor for the detection of SARS-CoV-2 spike glycoprotein.. <i>Electrochimica Acta</i> , <b>2022</b> , 403, 139581	6.7	20
149	Interaction mechanism between TiO nanostructures and bovine leukemia virus proteins in photoluminescence-based immunosensors.. <i>RSC Advances</i> , <b>2018</b> , 8, 37740-37748	3.7	20
148	Scanning electrochemical microscopy in the development of enzymatic sensors and immunosensors. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 141, 111411	11.8	19
147	Redox-probe-free scanning electrochemical microscopy combined with fast Fourier transform electrochemical impedance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 9831-9836	3.6	19
146	Whispering gallery mode resonator and glucose oxidase based glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 318, 128004	8.5	19
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144	Reagent-less amperometric glucose biosensor based on a graphite rod electrode layer-by-layer modified with 1,10-phenanthroline-5,6-dione and glucose oxidase. <i>Talanta</i> , <b>2017</b> , 171, 204-212	6.2	18
143	Zinc oxide nanorod based immunosensing platform for the determination of human leukemic cells. <i>Talanta</i> , <b>2019</b> , 200, 378-386	6.2	18
142	Tunable Bloch surface waves in anisotropic photonic crystals based on lithium niobate thin films. <i>Optics Letters</i> , <b>2016</b> , 41, 5616-5619	3	18
141	Application of ZnO Nanorods Based Whispering Gallery Mode Resonator in Optical Immunosensors. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 191, 110999	6	18
140	Reduced Graphene Oxide and Polyaniline Nanofibers Nanocomposite for the Development of an Amperometric Glucose Biosensor. <i>Sensors</i> , <b>2021</b> , 21,	3.8	18
139	Synthesis of Polypyrrole Induced by [Fe(CN)] <sup>III</sup> and Redox Cycling of [Fe(CN)] <sup>II</sup> /[Fe(CN)] <sup>III</sup> <i>Polymers</i> , <b>2018</b> , 10,	4.5	18
138	Evaluation of kinetics and thermodynamics of interaction between immobilized SARS-CoV-2 nucleoprotein and specific antibodies by total internal reflection ellipsometry. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 594, 195-203	9.3	18
137	Fluorescence Quenching-Based Evaluation of Glucose Oxidase Composite with Conducting Polymer, Polypyrrole. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 9491-9498	3.8	17

136	In-vitro model for assessing glucose diffusion through skin. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 110, 175-179	17
135	EDA modified PANI/SWNTs nanocomposite for determination of Ni(II) metal ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 537, 303-309	5.1 17
134	Evaluation of Some Redox Mediators in the Design of Reagentless Amperometric Glucose Biosensor. <i>Electroanalysis</i> , <b>2014</b> , 26, 1528-1535	3 17
133	Evaluation of the Redox Mediating Properties of 1,10-Phenanthroline-5,6-dione for Glucose Oxidase Modified Graphite Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, B31-B33	3.9 17
132	Physicochemical Characteristics of Polypyrrole/(Glucose oxidase)/(Prussian Blue)-based Biosensor Modified with Ni- and Co-Hexacyanoferrates. <i>Electroanalysis</i> , <b>2019</b> , 31, 50-57	3 17
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130	Dispersed Conducting Polymer Nanocomposites with Glucose Oxidase and Gold Nanoparticles for the Design of Enzymatic Glucose Biosensors. <i>Polymers</i> , <b>2021</b> , 13,	4.5 16
129	Towards direct enzyme wiring: a theoretical investigation of charge carrier transfer mechanisms between glucose oxidase and organic semiconductors. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 2968-2976	3.6 15
128	Towards Microorganism-Based Biofuel Cells: The Viability of Modified by Multiwalled Carbon Nanotubes. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4 15
127	Evaluation of affinity sensor response kinetics towards dimeric ligands linked with spacers of different rigidity: Immobilized recombinant granulocyte colony-stimulating factor based synthetic receptor binding with genetically engineered dimeric analyte derivatives. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 156, 112112	11.8 15
126	Influence of ZnO/graphene nanolaminate periodicity on their structural and mechanical properties. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 1487-1493	9.1 15
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124	The link between yeast cell wall porosity and plasma membrane permeability after PEF treatment. <i>Scientific Reports</i> , <b>2019</b> , 9, 14731	4.9 15
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122	Deposition of gold nanoparticles on mica modified by poly(allylamine hydrochloride) monolayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2014</b> , 441, 204-210	5.1 15
121	Visualization of red-ox proteins on the gold surface using enzymatic polypyrrole formation. <i>Mikrochimica Acta</i> , <b>2011</b> , 175, 79-86	5.8 15
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111	Evaluation of Enzymatic Kinetics of GOx-based Electrodes by Scanning Electrochemical Microscopy at Redox Competition Mode. <i>Electroanalysis</i> , <b>2017</b> , 29, 1532-1542	3	13
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14	Design of immunosensors for rapid and sensitive detection of biomarkers <b>2022</b> , 303-333		1
13	Microbial Fuel Cell-Based Toxicity Sensor. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 379-388	0.4	1
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