

Lauro Tatsuo Kubota

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1527832/lauro-tatsuo-kubota-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

337
papers

11,905
citations

60
h-index

86
g-index

354
ext. papers

12,880
ext. citations

5
avg, IF

6.55
L-index

#	Paper	IF	Citations
337	Review of the use of biosensors as analytical tools in the food and drink industries. <i>Food Chemistry</i> , 2002 , 77, 237-256	8.5	434
336	Sensing approaches on paper-based devices: a review. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 7573-95	4.4	356
335	Electrochemical detection in a paper-based separation device. <i>Analytical Chemistry</i> , 2010 , 82, 1162-5	7.8	183
334	Solid contact potentiometric sensors for trace level measurements. <i>Analytical Chemistry</i> , 2006 , 78, 1318-28	7.8	180
333	Separation and electrochemical detection of paracetamol and 4-aminophenol in a paper-based microfluidic device. <i>Analytica Chimica Acta</i> , 2012 , 725, 44-50	6.6	170
332	Electrochemical Biosensors in Point-of-Care Devices: Recent Advances and Future Trends. <i>ChemElectroChem</i> , 2017 , 4, 778-794	4.3	155
331	Direct electron transfer: an approach for electrochemical biosensors with higher selectivity and sensitivity. <i>Journal of the Brazilian Chemical Society</i> , 2003 , 14, 230-243	1.5	154
330	Polycrystalline Gold Electrodes: A Comparative Study of Pretreatment Procedures Used for Cleaning and Thiol Self-Assembly Monolayer Formation. <i>Electroanalysis</i> , 2005 , 17, 1251-1259	3	145
329	Solid-phase extraction system for Pb (II) ions enrichment based on multiwall carbon nanotubes coupled on-line to flame atomic absorption spectrometry. <i>Talanta</i> , 2007 , 71, 1512-9	6.2	141
328	Effects of fungal laccase immobilization procedures for the development of a biosensor for phenol compounds. <i>Talanta</i> , 2001 , 54, 681-6	6.2	133
327	Effect of magnetite on the adsorption behavior of Pb(II), Cd(II), and Cu(II) in chitosan-based hydrogels. <i>Desalination</i> , 2011 , 275, 187-196	10.3	117
326	Low cost, simple three dimensional electrochemical paper-based analytical device for determination of p-nitrophenol. <i>Electrochimica Acta</i> , 2014 , 130, 771-777	6.7	116
325	Simultaneous determination of phenol isomers in binary mixtures by differential pulse voltammetry using carbon fibre electrode and neural network with pruning as a multivariate calibration tool. <i>Analytica Chimica Acta</i> , 2000 , 420, 109-121	6.6	111
324	A new approach for paper-based analytical devices with electrochemical detection based on graphite pencil electrodes. <i>Sensors and Actuators B: Chemical</i> , 2013 , 177, 224-230	8.5	99
323	Determination of nitrite in food samples by anodic voltammetry using a modified electrode. <i>Food Chemistry</i> , 2009 , 113, 1206-1211	8.5	99
322	Determination of thickness, dielectric constant of thiol films, and kinetics of adsorption using surface plasmon resonance. <i>Langmuir</i> , 2005 , 21, 602-9	4	97
321	HRP-based amperometric biosensor for the polyphenols determination in vegetables extract. <i>Sensors and Actuators B: Chemical</i> , 2003 , 96, 636-645	8.5	97

320	Biosensor for phenol based on the direct electron transfer blocking of peroxidase immobilising on silica-titanium. <i>Analytica Chimica Acta</i> , 1999 , 390, 65-72	6.6	97
319	Enhancement of the detection limit for lateral flow immunoassays: evaluation and comparison of bioconjugates. <i>Journal of Immunological Methods</i> , 2012 , 375, 264-70	2.5	95
318	Study of NADH stability using ultraviolet-visible spectrophotometric analysis and factorial design. <i>Analytical Biochemistry</i> , 1998 , 260, 50-5	3.1	93
317	Esp�cies reativas de oxig�nio e de nitrog�nio, antioxidantes e marcadores de dano oxidativo em sangue humano: principais m�todos anal�ticos para sua determina�o. <i>Quimica Nova</i> , 2007 , 30, 1323-1338	1.6	93
316	Amperometric sensor for nitrite using a glassy carbon electrode modified with alternating layers of iron(III) tetra-(N-methyl-4-pyridyl)-porphyrin and cobalt(II) tetrasulfonated phthalocyanine. <i>Talanta</i> , 2006 , 70, 588-94	6.2	93
315	Use of silica gel chemically modified with zirconium phosphate for preconcentration and determination of lead and copper by flame atomic absorption spectrometry. <i>Talanta</i> , 2003 , 60, 1105-11	6.2	89
314	Investigations of the antioxidant properties of plant extracts using a DNA-electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1374-82	11.8	88
313	Reusable, robust, and accurate laser-generated photonic nanosensor. <i>Nano Letters</i> , 2014 , 14, 3587-93	11.5	87
312	Surface plasmon resonance immunosensor for human cardiac troponin T based on self-assembled monolayer. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 43, 1744-50	3.5	87
311	Biosensors based on gold nanostructures. <i>Journal of the Brazilian Chemical Society</i> , 2011 , 22, 3-20	1.5	86
310	An SPR immunosensor for human cardiac troponin T using specific binding avidin to biotin at carboxymethyl-dextran-modified gold chip. <i>Clinica Chimica Acta</i> , 2007 , 376, 114-20	6.2	85
309	Voltammetric determination of 4-nitrophenol at a lithium tetracyanoethylene (LiTCNE) modified glassy carbon electrode. <i>Talanta</i> , 2004 , 64, 935-42	6.2	85
308	Polishable and renewable DNA hybridization biosensors. <i>Analytical Chemistry</i> , 1998 , 70, 3699-702	7.8	84
307	Simultaneous determination of zinc, cadmium and lead in environmental water samples by potentiometric stripping analysis (PSA) using multiwalled carbon nanotube electrode. <i>Journal of Hazardous Materials</i> , 2009 , 169, 256-62	12.8	83
306	Microfluidic paper-based devices for bioanalytical applications. <i>Bioanalysis</i> , 2014 , 6, 89-106	2.1	80
305	Direct determination of paracetamol in powdered pharmaceutical samples by fluorescence spectroscopy. <i>Analytica Chimica Acta</i> , 2005 , 539, 257-261	6.6	79
304	Biosensors as a tool for the antioxidant status evaluation. <i>Talanta</i> , 2007 , 72, 335-48	6.2	76
303	Efficiency of hydrogels based on natural polysaccharides in the removal of Cd ²⁺ ions from aqueous solutions. <i>Chemical Engineering Journal</i> , 2011 , 168, 68-76	14.7	75

302	Development of a laccase-based flow injection electrochemical biosensor for the determination of phenolic compounds and its application for monitoring remediation of Kraft E1 paper mill effluent. <i>Analytica Chimica Acta</i> , 2002 , 463, 229-238	6.6	74
301	InP Nanowire Biosensor with Tailored Biofunctionalization: Ultrasensitive and Highly Selective Disease Biomarker Detection. <i>Nano Letters</i> , 2017 , 17, 5938-5949	11.5	73
300	Effects of EDTA on signal stability during electrochemical detection of acetaminophen. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004 , 34, 871-8	3.5	73
299	A very low potential electrochemical detection of L-cysteine based on a glassy carbon electrode modified with multi-walled carbon nanotubes/gold nanorods. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 202-9	11.8	72
298	Amperometric biosensor for lactate based on lactate dehydrogenase and Meldola Blue coimmobilized on multi-wall carbon-nanotube. <i>Sensors and Actuators B: Chemical</i> , 2007 , 124, 269-276	8.5	72
297	Effect of pH on the catalytic electrooxidation of NADH using different two-electron mediators immobilised on zirconium phosphate. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 509, 2-10	4.1	70
296	Construction and electrochemical characterization of microelectrodes for improved sensitivity in paper-based analytical devices. <i>Analytical Chemistry</i> , 2013 , 85, 5233-9	7.8	69
295	Molecularly-imprinted solid phase extraction of catechol from aqueous effluents for its selective determination by differential pulse voltammetry. <i>Analytica Chimica Acta</i> , 2005 , 548, 11-19	6.6	69
294	Cyclic voltammetry studies of copper and nickel hexacyanoferrate immobilized on a silica gel surface coated with titanium(IV) oxide. <i>Journal of Electroanalytical Chemistry</i> , 1993 , 362, 219-225	4.1	69
293	Cation-Dependent Stabilization of Electrogenated Naphthalene Diimide Dianions in Porous Polymer Thin Films and Their Application to Electrical Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13225-9	16.4	68
292	Fabrication of interdigitated micro-supercapacitor devices by direct laser writing onto ultra-thin, flexible and free-standing graphite oxide films. <i>RSC Advances</i> , 2016 , 6, 84769-84776	3.7	67
291	On-line molecularly imprinted solid phase extraction for the selective spectrophotometric determination of catechol. <i>Microchemical Journal</i> , 2007 , 85, 290-296	4.8	67
290	Amperometric biosensor for ethanol based on co-immobilization of alcohol dehydrogenase and Meldola's Blue on multi-wall carbon nanotube. <i>Electrochimica Acta</i> , 2006 , 52, 215-220	6.7	66
289	Application of self-assembled monolayer-based electrode for voltammetric determination of copper. <i>Electrochimica Acta</i> , 2004 , 49, 3795-3800	6.7	66
288	Simple on-plastic/paper inkjet-printed solid-state Ag/AgCl pseudoreference electrode. <i>Analytical Chemistry</i> , 2014 , 86, 10531-4	7.8	65
287	Dissolved oxygen sensor based on cobalt tetrasulphonated phthalocyanine immobilized in poly-L-lysine film onto glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2006 , 114, 1019-1027	8.5	65
286	Fabrication and electrochemical evaluation of micro-supercapacitors prepared by direct laser writing on free-standing graphite oxide paper. <i>Energy</i> , 2019 , 179, 676-684	7.9	63
285	Preliminary electrochemical study of phenothiazines and phenoxazines immobilized on zirconium phosphate. <i>Journal of Electroanalytical Chemistry</i> , 1997 , 431, 23-27	4.1	63

284	Exploiting micellar environment for simultaneous electrochemical determination of ascorbic acid and dopamine. <i>Talanta</i> , 2005 , 67, 829-35	6.2	63
283	Synthesis and characterization of zeolite-encapsulated metalloporphyrins. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000 , 168, 261-276	5.1	63
282	Application of two- and three-way chemometric methods in the study of acetylsalicylic acid and ascorbic acid mixtures using ultraviolet spectrophotometry. <i>Analytica Chimica Acta</i> , 2000 , 409, 159-170	6.6	63
281	SiO ₂ /Nb ₂ O ₅ sol-gel as a support for HRP immobilization in biosensor preparation for phenol detection. <i>Electrochimica Acta</i> , 2002 , 47, 4451-4458	6.7	62
280	Direct laser writing of micro-supercapacitors on thick graphite oxide films and their electrochemical properties in different liquid inorganic electrolytes. <i>Journal of Colloid and Interface Science</i> , 2017 , 507, 271-278	9.3	61
279	Highly stable amperometric biosensor for ethanol based on Meldola's blue adsorbed on silica gel modified with niobium oxide. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 547, 135-142	4.1	60
278	Electroanalytical determination of acid phosphatase activity by monitoring p-nitrophenol. <i>Analytica Chimica Acta</i> , 2001 , 441, 207-214	6.6	60
277	Recent Trends in Field-Effect Transistors-Based Immunosensors. <i>Chemosensors</i> , 2016 , 4, 20	4	60
276	Evaluation of enzyme immobilization methods for paper-based devices--A glucose oxidase study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 117, 551-9	3.5	58
275	Electrochemical Sensor for Hydrazine Based on Silica Modified with Nickel Tetrasulfonated Phthalocyanine. <i>Electroanalysis</i> , 1998 , 10, 111-115	3	58
274	Microwave-assisted synthesis of palladium nanoparticles intercalated nitrogen doped reduced graphene oxide and their electrocatalytic activity for direct-ethanol fuel cells. <i>Journal of Colloid and Interface Science</i> , 2018 , 515, 160-171	9.3	57
273	Characterization of self-assembled thiols monolayers on gold surface by electrochemical impedance spectroscopy. <i>Journal of the Brazilian Chemical Society</i> , 2004 , 15, 849-855	1.5	57
272	Integrated, paper-based potentiometric electronic tongue for the analysis of beer and wine. <i>Analytica Chimica Acta</i> , 2016 , 918, 60-8	6.6	55
271	Selective determination of caffeic acid in wines with electrochemical sensor based on molecularly imprinted siloxanes. <i>Sensors and Actuators B: Chemical</i> , 2014 , 193, 238-246	8.5	55
270	A hemin-based molecularly imprinted polymer (MIP) grafted onto a glassy carbon electrode as a selective sensor for 4-aminophenol amperometric. <i>Sensors and Actuators B: Chemical</i> , 2011 , 152, 220-225	8.5	55
269	Anodic oxidation of cysteine catalysed by nickel tetrasulphonated phthalocyanine immobilized on silica gel modified with titanium (IV) oxide. <i>Electrochimica Acta</i> , 1998 , 43, 1665-1673	6.7	55
268	Development of an enzymeless biosensor for the determination of phenolic compounds. <i>Analytica Chimica Acta</i> , 2002 , 455, 215-223	6.6	55
267	Tris (2,2'-bipyridil) copper (II) chloride complex: a biomimetic tyrosinase catalyst in the amperometric sensor construction. <i>Electrochimica Acta</i> , 2003 , 48, 855-865	6.7	55

266	An amperometric sensor based on electrochemically triggered reaction: Redox-active ArâO/ArâHOH from 4-nitrophthalonitrile-modified electrode for the low voltage cysteine detection. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 612, 87-96	4.1	54
265	Electrochemical detection of dengue virus NS1 protein with a poly(allylamine)/carbon nanotube layered immunoelectrode. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 194-200	3.5	53
264	Nickel hydroxide electrodes as amperometric detectors for carbohydrates in flow injection analysis and liquid chromatography. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 636, 18-23	4.1	53
263	Pol�meros biomim�ticos em qu�mica anal�tica. Parte 1: preparo e aplica�es de MIP ("Molecularly Imprinted Polymers") em t�cnicas de extra� e separa�. <i>Quimica Nova</i> , 2005 , 28, 1076-1086	1.6	53
262	Controlled density of defects assisted perforated structure in reduced graphene oxide nanosheets-palladium hybrids for enhanced ethanol electro-oxidation. <i>Carbon</i> , 2017 , 117, 137-146	10.4	51
261	Electrochemical Behavior of Copper Porphyrin Synthesized into Zeolite Cavity: A Sensor for Hydrazine. <i>Electroanalysis</i> , 1998 , 10, 462-466	3	51
260	Determination of glutathione in hemolysed erythrocyte with amperometric sensor based on TTF-TCNQ. <i>Clinica Chimica Acta</i> , 2006 , 371, 152-8	6.2	51
259	Electrochemical sensor for NADH based on Meldola's blue immobilized on silica gel modified with titanium phosphate. <i>Electrochimica Acta</i> , 1996 , 41, 1465-1469	6.7	51
258	Emerging Considerations for the Future Development of Electrochemical Paper-Based Analytical Devices. <i>ChemElectroChem</i> , 2019 , 6, 10-30	4.3	50
257	Development of a label-free immunosensor based on surface plasmon resonance technique for the detection of anti-Leishmania infantum antibodies in canine serum. <i>Biosensors and Bioelectronics</i> , 2013 , 46, 22-9	11.8	50
256	Effects of different self-assembled monolayers on enzyme immobilization procedures in peroxidase-based biosensor development. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 612, 164-172	4.1	50
255	Electrochemical oxidation of glycine by doped nickel hydroxide modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2008 , 135, 245-249	8.5	50
254	Bi-enzymatic amperometric biosensor for oxalate. <i>Sensors and Actuators B: Chemical</i> , 2001 , 72, 80-85	8.5	50
253	Potentiometric biosensor for L-ascorbic acid based on ascorbate oxidase of natural source immobilized on ethylene�vinylacetate membrane. <i>Analytica Chimica Acta</i> , 1999 , 385, 3-12	6.6	48
252	Nile blue adsorbed onto silica gel modified with niobium oxide for electrocatalytic oxidation of NADH. <i>Electrochimica Acta</i> , 2002 , 47, 3351-3360	6.7	47
251	Mixed enzyme (laccase/tyrosinase)-based remote electrochemical biosensor for monitoring phenolic compounds. <i>Analyst</i> , 2002 , 127, 258-261	5	47
250	Development of an amperometric biosensor based on glutathione peroxidase immobilized in a carbodiimide matrix for the analysis of reduced glutathione from serum. <i>Clinica Chimica Acta</i> , 2001 , 308, 55-67	6.2	47
249	Electrochemical Properties of Iron Phthalocyanine Immobilized on Titanium(IV) Oxide Coated on Silica Gel Surface. <i>Langmuir</i> , 1995 , 11, 1009-1013	4	47

248	Amperometric biosensor based on horseradish peroxidase for biogenic amine determinations in biological samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005 , 37, 785-91	3.5	45
247	Electrochemical sensor based on imprinted sol-gel and nanomaterial for determination of caffeine. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 739-745	8.5	44
246	Electropolymerization of ferulic acid on multi-walled carbon nanotubes modified glassy carbon electrode as a versatile platform for NADH, dopamine and epinephrine separate detection. <i>Microchemical Journal</i> , 2017 , 133, 460-467	4.8	42
245	Novel electrochemical sensor for the selective recognition of chlorogenic acid. <i>Analytica Chimica Acta</i> , 2011 , 695, 44-50	6.6	42
244	Electrochemical detection of cysteine in a flow system based on reductive desorption of thiols from gold. <i>Analytica Chimica Acta</i> , 2006 , 575, 172-9	6.6	42
243	Electrochemical biosensor-based devices for continuous phenols monitoring in environmental matrices. <i>Journal of the Brazilian Chemical Society</i> , 2002 , 13, 456	1.5	42
242	Novas tendências para o tratamento de resíduos industriais contendo espécies organocloradas. <i>Química Nova</i> , 2000 , 23, 504-511	1.6	42
241	Insight into the Electro-Oxidation Mechanism of Glucose and Other Carbohydrates by CuO-Based Electrodes. <i>Analytical Chemistry</i> , 2018 , 90, 3357-3365	7.8	40
240	Voltammetric method optimized by multi-response assays for the simultaneous measurements of uric acid and acetaminophen in urine in the presence of surfactant using MWCNT paste electrode. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 696, 52-58	4.1	40
239	Dual amperometric biosensor device for analysis of binary mixtures of phenols by multivariate calibration using partial least squares. <i>Analytica Chimica Acta</i> , 2003 , 485, 263-269	6.6	40
238	Immunospot assay based on fluorescent nanoparticles for Dengue fever detection. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 180-5	11.8	39
237	Synthesis and application of a peroxidase-like molecularly imprinted polymer based on hemin for selective determination of serotonin in blood serum. <i>Analytica Chimica Acta</i> , 2009 , 631, 170-6	6.6	39
236	Construction of a new functional platform by grafting poly(4-vinylpyridine) in multi-walled carbon nanotubes for complexing copper ions aiming the amperometric detection of l-cysteine. <i>Electrochimica Acta</i> , 2012 , 71, 150-158	6.7	38
235	Triboelectric effect as a new strategy for sealing and controlling the flow in paper-based devices. <i>Lab on A Chip</i> , 2015 , 15, 1651-5	7.2	38
234	Investigations of ultrathin polypyrrole films: Formation and effects of doping/dedoping processes on its optical properties by electrochemical surface plasmon resonance (ESPR). <i>Electrochimica Acta</i> , 2006 , 51, 1304-1312	6.7	38
233	Development of an amperometric sensor for phenol compounds using a Nafion [®] membrane doped with copper dipyrrolyl complex as a biomimetic catalyst. <i>Journal of Electroanalytical Chemistry</i> , 2002 , 536, 71-81	4.1	38
232	Cyclic voltammetric study of [Fe(CN) ₆] ³⁻ immobilized on silica gel surface coated with titanium(IV) oxide. <i>Electrochimica Acta</i> , 1992 , 37, 2477-2480	6.7	37
231	Poly-xanthurenic acid as an efficient mediator for the electrocatalytic oxidation of NADH. <i>Electrochemistry Communications</i> , 2010 , 12, 450-454	5.1	36

230	A catalytically active molecularly imprinted polymer that mimics peroxidase based on hemin: application to the determination of p-aminophenol. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 389, 1919-29	4.4	36
229	Adsorption of metal ions from ethanol on an iminosalicyl-modified silica gel. <i>Analyst, The</i> , 1989 , 114, 1385	5	36
228	Electrochemical study of methylene blue immobilized in zirconium phosphate. <i>Electroanalysis</i> , 1997 , 9, 800-803	3	35
227	Hydroxyapatite-based electrode: a new sensor for phosphate. <i>Analytical Communications</i> , 1996 , 33, 227		35
226	Dissolved oxygen amperometric sensor based on layer-by-layer assembly using host-guest supramolecular interactions. <i>Analytica Chimica Acta</i> , 2010 , 664, 144-50	6.6	34
225	Solid-phase spectrofluorimetric determination of acetylsalicylic acid and caffeine in pharmaceutical preparations using partial least-squares multivariate calibration. <i>Talanta</i> , 2005 , 67, 65-9	6.2	34
224	Experimental design employed to square wave voltammetry response optimization for the glyphosate determination. <i>Journal of the Brazilian Chemical Society</i> , 2004 , 15, 865-871	1.5	34
223	Iron(III) tetra-(N-methyl-4-pyridyl)-porphyrin as a biomimetic catalyst of horseradish peroxidase on the electrode surface: an amperometric sensor for phenolic compound determinations. <i>Analyst, The</i> , 2003 , 128, 255-9	5	34
222	Peroxidase-based biosensor as a tool for a fast evaluation of antioxidant capacity of tea. <i>Food Chemistry</i> , 2005 , 92, 515-519	8.5	34
221	Electrochemical Comparative Study of Riboflavin, FMN and FAD Immobilized on the Silica Gel Modified with Zirconium Oxide. <i>Journal of the Brazilian Chemical Society</i> , 2002 , 13, 635-641	1.5	34
220	A new amperometric biosensor for fructose using a carbon paste electrode modified with silica gel coated with Meldola's Blue and fructose 5-dehydrogenase. <i>Journal of Electroanalytical Chemistry</i> , 1996 , 418, 147-151	4.1	34
219	Cobalt(II) porphyrin complex immobilized on the binary oxide SiO ₂ /Sb ₂ O ₃ : electrochemical properties and dissolved oxygen reduction study. <i>Electrochimica Acta</i> , 2004 , 49, 829-834	6.7	33
218	Biossensores amperométricos para determinação de compostos fenólicos em amostras de interesse ambiental. <i>Química Nova</i> , 2001 , 24, 77-86	1.6	33
217	Ferrocenecarboxylic acid adsorbed on Nb ₂ O ₅ film grafted on a SiO ₂ surface: NADH oxidation study. <i>Electrochimica Acta</i> , 2001 , 46, 2499-2505	6.7	33
216	SiO ₂ /C/Cu(II)phthalocyanine as a biomimetic catalyst for dopamine monooxygenase in the development of an amperometric sensor. <i>Electrochimica Acta</i> , 2011 , 56, 10116-10121	6.7	32
215	Acetylsalicylic acid determination in pharmaceutical samples by FIA-potentiometry using a salicylate-sensitive tubular electrode with an ethylene-vinyl acetate membrane. <i>Analytica Chimica Acta</i> , 1998 , 366, 103-109	6.6	32
214	Amperometric sensor for nitrite based on copper tetrasulphonated phthalocyanine immobilized with poly-L-lysine film. <i>Talanta</i> , 2008 , 75, 333-8	6.2	32
213	Determination of Phenolic Compounds Based on Co-Immobilization of Methylene Blue and HRP on Multi-Wall Carbon Nanotubes. <i>Electroanalysis</i> , 2007 , 19, 549-554	3	32

212	Electrochemical and spectroscopic characterization of the interaction between DNA and Cu(II)-naringin complex. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 45, 706-13	3.5	32
211	Influence of EDTA on the electrochemical behavior of phenols. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 548, 19-26	4.1	32
210	Development of a sensor based on tetracyanoethylene (LiTCNE)/poly-L-lysine (PLL) for dopamine determination. <i>Electrochimica Acta</i> , 2005 , 50, 2675-2683	6.7	32
209	Tendências em modificaç de eletrodos amperométricos para aplicaes eletroanalíticas. <i>Quimica Nova</i> , 2002 , 25, 1012	1.6	32
208	LACCASE-BASED SCREEN PRINTED ELECTRODE FOR AMPEROMETRIC DETECTION OF PHENOLIC COMPOUNDS. <i>Analytical Letters</i> , 2002 , 35, 29-38	2.2	32
207	Development of a new FIA-potentiometric sensor for dopamine based on EVA-copper(II) ions. <i>Journal of Electroanalytical Chemistry</i> , 2000 , 481, 34-41	4.1	32
206	Preparation and characterization of Ti (IV) oxide grafted onto silica on a silica gel surface. <i>Colloids and Surfaces</i> , 1991 , 57, 11-15		32
205	Multifunctional catalytic platform for peroxidase mimicking, enzyme immobilization and biosensing. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 746-51	11.8	31
204	A nanostructured piezoelectric immunosensor for detection of human cardiac troponin T. <i>Sensors</i> , 2011 , 11, 10785-97	3.8	31
203	Adsorption Parameters of Cd(II), Pb(II), and Hg(II) on Zirconium(IV) Phosphate Chemically Grafted onto Silica Gel Surface. <i>Journal of Colloid and Interface Science</i> , 1998 , 200, 121-125	9.3	31
202	A highly sensitive amperometric sensor for oxygen based on iron(II) tetrasulfonated phthalocyanine and iron(III) tetra-(N-methyl-pyridyl)-porphyrin multilayers. <i>Analytica Chimica Acta</i> , 2008 , 612, 29-36	6.6	31
201	Amperometric determination of chloroguaiacol at submicromolar levels after on-line preconcentration with molecularly imprinted polymers. <i>Talanta</i> , 2006 , 69, 259-66	6.2	31
200	Determination of reduced glutathione using an amperometric carbon paste electrode chemically modified with TTFâCNQ. <i>Sensors and Actuators B: Chemical</i> , 2004 , 100, 333-340	8.5	31
199	Electrochemical Detection of Nitrite in Meat and Water Samples Using a Mesoporous Carbon Ceramic SiO ₂ /C Electrode Modified with In Situ Generated Manganese(II) Phthalocyanine. <i>Electroanalysis</i> , 2014 , 26, 541-547	3	30
198	Cobalt tetrasulphonated phthalocyanine immobilized on poly-L-lysine film onto glassy carbon electrode as amperometric sensor for cysteine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006 , 42, 184-91	3.5	30
197	Solid-phase fluorescence spectroscopy for the determination of acetylsalicylic acid in powdered pharmaceutical samples. <i>Analytica Chimica Acta</i> , 2004 , 523, 49-52	6.6	30
196	SPR analysis of the interaction between a recombinant protein of unknown function in <i>Leishmania infantum</i> immobilised on dendrimers and antibodies of the visceral leishmaniasis: A potential use in immunodiagnosis. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 275-81	11.8	29
195	Polyaniline nanofibersâgraphene oxide nanoplatelets composite thin film electrodes for electrochemical capacitors. <i>RSC Advances</i> , 2014 , 4, 34168-34178	3.7	29

194	Development of a disposable and highly sensitive paper-based immunosensor for early diagnosis of Asian soybean rust. <i>Biosensors and Bioelectronics</i> , 2013 , 45, 123-8	11.8	29
193	Electrochemical behaviour of FAD and FMN immobilised on TiO ₂ modified carbon fibres supported by ATR-IR spectroscopy of FMN on TiO ₂ . <i>Bioelectrochemistry</i> , 1998 , 47, 39-46		29
192	A utilizaçã de materiais obtidos pelo processo de sol-gel na construçã de biossensores. <i>Quimica Nova</i> , 2002 , 25, 835-841	1.6	29
191	Electrochemical behavior of riboflavin immobilized on different matrices. <i>Journal of Colloid and Interface Science</i> , 2003 , 265, 351-8	9.3	29
190	Experimental Optimization of Selective Hydrazine Detection in Flow Injection Analysis Using a Carbon Paste Electrode Modified with Copper Porphyrin Occluded into Zeolite Cavity.. <i>Analytical Sciences</i> , 1999 , 15, 1231-1234	1.7	29
189	Horseradish peroxidase enzyme immobilized on titanium(IV) oxide coated cellulose microfibers: study of the enzymatic activity by flow injection system. <i>Colloids and Surfaces B: Biointerfaces</i> , 1996 , 6, 309-315	6	29
188	Flow-based method for epinephrine determination using a solid reactor based on molecularly imprinted poly(FePPâMAAâEGDMA). <i>Materials Science and Engineering C</i> , 2011 , 31, 114-119	8.3	28
187	Surface plasmon resonance immunosensor for early diagnosis of Asian rust on soybean leaves. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2483-7	11.8	26
186	Tin(IV) oxide grafted on a silica gel surface as a conducting substrate base for cupric hexacyanoferrate. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991 , 318, 247-254		26
185	Carbon Nanotube Based Sensor for Simultaneous Determination of Acetaminophen and Ascorbic Acid Exploiting Multiple Response Optimization and Measures in the Presence of Surfactant. <i>Electroanalysis</i> , 2012 , 24, 2291-2301	3	25
184	FAD-modified SiO ₂ /ZrO ₂ /C ceramic electrode for electrocatalytic reduction of bromate and iodate. <i>Journal of Solid State Electrochemistry</i> , 2009 , 13, 377-383	2.6	25
183	In situ activated 3,5-dinitrobenzoic acid covalent attached to nanostructured platform for NADH electrooxidation. <i>Electrochimica Acta</i> , 2009 , 54, 6609-6616	6.7	25
182	Speciation of Sb(III) and Sb(V) in meglumine antimoniate pharmaceutical formulations by PSA using carbon nanotube electrode. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009 , 50, 151-7	3.5	25
181	Electrocatalytic activity of 4-nitrophthalonitrile-modified electrode for the l-glutathione detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 47, 758-64	3.5	25
180	Electrocatalytic activity of 2,3,5,6-tetrachloro-1,4-benzoquinone/multi-walled carbon nanotubes immobilized on edge plane pyrolytic graphite electrode for NADH oxidation. <i>Electrochimica Acta</i> , 2008 , 53, 4706-4714	6.7	25
179	Development of a voltammetric sensor for catechol in nanomolar levels using a modified electrode with Cu(phen) ₂ (TCNQ) ₂ and PLL. <i>Sensors and Actuators B: Chemical</i> , 2006 , 117, 274-281	8.5	25
178	Determination of salicylate in blood serum using an amperometric biosensor based on salicylate hydroxylase immobilized in a polypyrrole-glutaraldehyde matrix. <i>Talanta</i> , 2000 , 51, 547-57	6.2	25
177	Immobilized ferrocene and glucose oxidase on titanium(IV) oxide grafted onto a silica gel surface and its application as an amperometric glucose biosensor. <i>Electroanalysis</i> , 1996 , 8, 489-493	3	25

176	Poly-xanthurenic acid modified electrodes: An amperometric sensor for the simultaneous determination of ascorbic and uric acids. <i>Sensors and Actuators B: Chemical</i> , 2012 , 168, 289-296	8.5	24
175	Manganese phthalocyanine as a biomimetic electrocatalyst for phenols in the development of an amperometric sensor. <i>Journal of the Brazilian Chemical Society</i> , 2009 , 20, 1180-1187	1.5	24
174	Electrocatalysis of reduced L-glutathione oxidation by iron(III) tetra-(N-methyl-4-pyridyl)-porphyrin (FeT4MPyP) adsorbed on multi-walled carbon nanotubes. <i>Talanta</i> , 2008 , 76, 1097-104	6.2	24
173	Electrocatalytic NADH Oxidation Using an Electrode Based on Meldola Blue Immobilized on Silica Coated with Niobium Oxide. <i>Electroanalysis</i> , 2002 , 14, 805	3	24
172	Electrochemical behavior of the bis(2,2'-bipyridyl)copper(II) complex immobilized on a self-assembled monolayer modified electrode for L-ascorbic acid detection. <i>Analyst, The</i> , 2002 , 127, 1502-6	5.6	24
171	Potentiometric study using chemically modified silica gel with pyridinium as membrane for ClO ⁻ ions. <i>Mikrochimica Acta</i> , 1995 , 117, 239-244	5.8	24
170	Application of a nanostructured platform and imprinted sol-gel film for determination of chlorogenic acid in food samples. <i>Talanta</i> , 2016 , 156-157, 119-125	6.2	24
169	Highly sensitive p-nitrophenol determination employing a new sensor based on N-Methylphenazonium methyl sulfate and graphene: Analysis in natural and treated waters. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 740-749	8.5	23
168	Synthetic 1,2,3-triazole-linked glycoconjugates bind with high affinity to human galectin-3. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 3414-25	3.4	23
167	A brief review on the strategy of developing SPR-based biosensors for application to the diagnosis of neglected tropical diseases. <i>Talanta</i> , 2019 , 205, 120122	6.2	23
166	Modified electrode using multi-walled carbon nanotubes and a metallopolymer for amperometric detection of l-cysteine. <i>Electrochimica Acta</i> , 2013 , 113, 332-339	6.7	23
165	An amperometric sensor for l-cysteine based on nanostructured platform modified with 5,5'-dithiobis-2-nitrobenzoic acid (DTNB). <i>Sensors and Actuators B: Chemical</i> , 2010 , 146, 213-220	8.5	23
164	Electrochemical behavior and electrocatalytic study of the methylene green coated on modified silica gel. <i>Journal of Colloid and Interface Science</i> , 2002 , 254, 113-9	9.3	23
163	A Reagentless Amperometric Carbon Paste Based Sensor for NADH. <i>Electroanalysis</i> , 2000 , 12, 194-198	3	23
162	A simple, sensitive and reduced cost paper-based device with low quantity of chemicals for the early diagnosis of Plasmodium falciparum malaria using an enzyme-based colorimetric assay. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 2113-2120	8.5	22
161	Electrochemical sensing based on DNA nanotechnology. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 118, 597-605	14.6	22
160	A new amperometric biosensor for salicylate based on salicylate hydroxylase immobilized on polypyrrole film doped with hexacyanoferrate. <i>Analytica Chimica Acta</i> , 1997 , 347, 35-41	6.6	22
159	Improvement of the electrochemical properties of ßs-grown boron-doped polycrystalline diamond electrodes deposited on tungsten wires using ethanol. <i>Journal of Solid State Electrochemistry</i> , 2007 , 11, 1449-1457	2.6	22

158	Study of poly(methylene blue) ultrathin films and its properties by electrochemical surface plasmon resonance. <i>Journal of Electroanalytical Chemistry</i> , 2005 , 581, 231-240	4.1	22
157	Synthesis of Surface Molecularly Imprinted Poly(methacrylic acid-hemin) on Carbon Nanotubes for the Voltammetric Simultaneous Determination of Antioxidants from Lipid Matrices and Biodiesel. <i>Electrochimica Acta</i> , 2016 , 212, 322-332	6.7	22
156	Paper-Based Electronic Tongue. <i>Electroanalysis</i> , 2015 , 27, 2357-2362	3	21
155	Novel amperometric sensor based on mesoporous silica chemically modified with ensal copper complexes for selective and sensitive dopamine determination. <i>Sensors and Actuators B: Chemical</i> , 2012 , 171-172, 712-718	8.5	21
154	Electrochemical investigations of the reaction mechanism and kinetics between NADH and redox-active (NC)2C6H3-NHOH/(NC)2C6H3-NO from 4-nitrophthalonitrile-(NC)2C6H3-NO ₂ -modified electrode. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 448-54	11.8	21
153	A Modified Carbon Paste Electrode with Silica Gel Coated with Meldola's Blue and Salicylate Hydroxylase as a Biosensor for Salicylate. <i>Analytical Letters</i> , 1996 , 29, 893-910	2.2	21
152	An o-aminobenzoic acid film-based immunoelectrode for detection of the cardiac troponin T in human serum. <i>Biochemical Engineering Journal</i> , 2013 , 71, 97-104	4.2	20
151	Use of column with modified silica for interfering retention in a FIA spectrophotometric method for direct determination of vitamin C in medicine. <i>Analytica Chimica Acta</i> , 1998 , 366, 11-22	6.6	20
150	QSPR Study of Passivation by Phenolic Compounds at Platinum and Boron-Doped Diamond Electrodes. <i>Journal of the Electrochemical Society</i> , 2008 , 155, D640	3.9	20
149	Polímeros biomiméticos em química analítica. Parte 2: aplicações de MIP ("Molecularly Imprinted Polymers") no desenvolvimento de sensores químicos. <i>Química Nova</i> , 2005 , 28, 1087-1101	1.6	20
148	Self-Assembly of Peptide Nanostructures onto an Electrode Surface for Nonenzymatic Oxygen Sensing. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1038-1046	3.8	19
147	Emprego de monocamadas auto-organizadas no desenvolvimento de sensores eletroquímicos. <i>Química Nova</i> , 2003 , 26, 381-389	1.6	19
146	Use of ruthenium(II) ethylenedinitrito-tetraacetic acid monohydrate ion immobilized on zirconium(IV) oxide coated silica gel surface as an amperometric sensor for oxygen in water. <i>Analytical Proceedings</i> , 1995 , 32, 503-505		19
145	Electrochemical Properties of. <i>Journal of Colloid and Interface Science</i> , 1996 , 184, 236-40	9.3	19
144	Adsorption of chromium(VI) by titanium(IV) oxide coated on a silica gel surface. <i>Analyst, The</i> , 1991 , 116, 281	5	19
143	Dissolved O ₂ sensor based on cobalt(II) phthalocyanine immobilized in situ on electrically conducting carbon ceramic mesoporous SiO ₂ /C material. <i>Sensors and Actuators B: Chemical</i> , 2013 , 177, 231-238	8.5	18
142	Application of factorial design to improve a FIA system for penicillin determination. <i>Analytica Chimica Acta</i> , 1997 , 350, 353-357	6.6	18
141	Adsorption kinetic and properties of self-assembled monolayer based on mono(6-deoxy-6-mercapto)- β -cyclodextrin molecules. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 601, 181-193	4.1	18

140	Tetracyanoquinodimethanide adsorbed on a silica gel modified with titanium oxide for electrocatalytic oxidation of hydrazine. <i>Journal of Solid State Electrochemistry</i> , 2007 , 11, 631-638	2.6	18
139	Simultaneous Spectrofluorimetric Determination of Paracetamol and Caffeine in Pharmaceutical Preparations in Solid-Phase Using Partial Least Squares Multivariate Calibration. <i>Analytical Letters</i> , 2006 , 39, 349-360	2.2	18
138	A Poly(Vinyl Chloride) Membrane Electrode for the Determination of the Diuretic Furosemide. <i>Analytical Letters</i> , 2004 , 37, 35-46	2.2	18
137	Electrochemical evaluation of rhodium dimer-DNA interactions. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002 , 29, 579-84	3.5	18
136	Tuning the electrochemical reduction of graphene oxide: structural correlations towards the electrooxidation of nicotinamide adenine dinucleotide hydride. <i>Electrochimica Acta</i> , 2016 , 197, 194-199	6.7	17
135	Visible LED light driven photoelectroanalytical detection of antibodies of visceral leishmaniasis based on electrodeposited CdS film sensitized with Au nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 682-690	8.5	17
134	Determination of short-chain fatty acids in dietary fiber extracts using ion-exclusion chromatography with suppressed conductivity detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009 , 49, 1128-32	3.5	17
133	The electrocatalytic activity of a supramolecular assembly of CoTsPc/FeT4MPyP on multi-walled carbon nanotubes towards L-glutathione, and its determination in human erythrocytes. <i>Mikrochimica Acta</i> , 2010 , 171, 169-178	5.8	17
132	Use of Chemically Modified Silica with beta-Diketoamine Groups for Separation of alpha-Lactalbumin from Bovine Milk Whey by Affinity Chromatography. <i>Journal of Colloid and Interface Science</i> , 1997 , 185, 313-6	9.3	17
131	Development of a semigraphitic sulfur-doped ordered mesoporous carbon material for electroanalytical applications. <i>Sensors and Actuators B: Chemical</i> , 2018 , 257, 347-353	8.5	17
130	Supramolecular DNA origami nanostructures for use in bioanalytical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 108, 88-97	14.6	17
129	Development and evaluation of a SPR-based immunosensor for detection of anti-Trypanosoma cruzi antibodies in human serum. <i>Sensors and Actuators B: Chemical</i> , 2015 , 212, 287-296	8.5	16
128	Electrocatalytic determination of reduced glutathione in human erythrocytes. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 1891-7	4.4	16
127	Reagentless biosensor for isocitrate using one step modified Pt-Ir microelectrode. <i>Talanta</i> , 2001 , 53, 801-6	6.2	16
126	Small angle X-ray scattering study of structural changes in silica gel modified with organofunctional groups. <i>Colloids and Surfaces</i> , 1989 , 40, 1-8		16
125	Highly Sensitive and Selective Basal Plane Pyrolytic Graphite Electrode Modified with 1,4-Naphthoquinone/MWCNT for Simultaneous Determination of Dopamine, Ascorbate and Urate. <i>Electroanalysis</i> , 2013 , 25, 723-731	3	15
124	Electrocatalytic oxidation of phenolic compounds using an electrode modified with Ni(II) porphyrin adsorbed on SiO ₂ /Nb ₂ O ₅ -phosphate synthesized by the sol-gel method. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 602, 29-36	4.1	15
123	Investigations of nanometric films of doped polyaniline by using electrochemical surface plasmon resonance and electrochemical quartz crystal microbalance. <i>Journal of Electroanalytical Chemistry</i> , 2006 , 589, 70-81	4.1	15

122	Effect of DNA on the Peroxidase Based Biosensor for Phenol Determination in Waste Waters. <i>Electroanalysis</i> , 2001 , 13, 445-450	3	15
121	Electrochemical Oxidation of Glassy Carbon Provides Similar Electrochemical Response as Graphene Oxide Prepared by Tour or Hummers Routes. <i>ChemElectroChem</i> , 2015 , 2, 761-767	4.3	14
120	Application of Blind Source Separation Methods to Ion-Selective Electrode Arrays in Flow-Injection Analysis. <i>IEEE Sensors Journal</i> , 2014 , 14, 2228-2229	4	14
119	A disposable voltammetric immunosensor based on magnetic beads for early diagnosis of soybean rust. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 135-140	8.5	14
118	DNA and graphene as a new efficient platform for entrapment of methylene blue (MB): Studies of the electrocatalytic oxidation of Ethicotinamide adenine dinucleotide. <i>Electrochimica Acta</i> , 2013 , 111, 543-551	6.7	14
117	Electrochemical properties of self-assembled monolayer based on mono-(6-deoxy-6-mercapto)- β -cyclodextrin toward controlled molecular recognition. <i>Electrochimica Acta</i> , 2007 , 53, 1945-1953	6.7	14
116	Simultaneous determination of calcium and potassium in coconut water by a flow-injection method with tubular potentiometric sensors. <i>Journal of Food Composition and Analysis</i> , 2006 , 19, 225-230	4.1	14
115	Application of (2,2':6',2''-terpyridyl) copper(II) chloride complex in sensor construction for benzoyl peroxide determination in pharmaceutical samples. <i>Analytica Chimica Acta</i> , 2003 , 494, 199-205	6.6	14
114	Electrochemical Biosensors for Salicylate and Its Derivatives. <i>Electroanalysis</i> , 1999 , 11, 527-533	3	14
113	Study of the Adsorption of Some Amino Acids by Silica Chemically Modified with Aminobenzenesulfonic and Phosphate Groups. <i>Journal of Colloid and Interface Science</i> , 1996 , 183, 453-7	9.3	14
112	Flow in a Paper-based Bioactive Channel – Study on Electrochemical Detection of Glucose and Uric Acid. <i>Electroanalysis</i> , 2016 , 28, 2245-2252	3	14
111	Microemulsification: an approach for analytical determinations. <i>Analytical Chemistry</i> , 2014 , 86, 9082-90	7.8	13
110	Development of a Carbon Paste Electrode for Lactate Detection Based on Meldola's Blue Adsorbed on Silica Gel Modified with Niobium Oxide and Lactate Oxidase. <i>Electroanalysis</i> , 2011 , 23, 1470-1477	3	13
109	A new high-performance chelation ion chromatographic system for the direct determination of trace transition metals in fuel ethanol. <i>Analytical Methods</i> , 2010 , 2, 1565	3.2	13
108	Factorial design optimization of redox properties of methylene blue adsorbed on a modified silica gel surface. <i>Journal of Electroanalytical Chemistry</i> , 1997 , 433, 73-76	4.1	13
107	Enzymeless biosensors: uma nova feia para o desenvolvimento de sensores amperométricos. <i>Química Nova</i> , 2002 , 25, 123-128	1.6	13
106	Electrochemical behavior of pyrroloquinoline quinone immobilized on silica gel modified with zirconium oxide. <i>Journal of Colloid and Interface Science</i> , 2003 , 263, 99-105	9.3	13
105	Bi-enzymatic optode detection system for oxalate determination based on a natural source of enzyme. <i>Analytica Chimica Acta</i> , 2001 , 447, 33-40	6.6	13

104	Copper phthalocyanine modified SiO ₂ /C electrode as a biomimetic electrocatalyst for 4-aminophenol in the development of an amperometric sensor. <i>RSC Advances</i> , 2015 , 5, 87043-87050	3.7	12
103	Minipotentiostat controlled by smartphone on a micropipette: A versatile, portable, agile and accurate tool for electroanalysis. <i>Electrochimica Acta</i> , 2020 , 341, 136048	6.7	12
102	Preparation of copper sphere segment void templates for electrochemical SERS and their use to study the interaction of amino acids with copper under potentiostatic control. <i>Electrochimica Acta</i> , 2014 , 144, 400-405	6.7	12
101	Ultrasensitive biosensor for detection of organophosphorus pesticides based on a macrocycle complex/carbon nanotubes composite and 1-methyl-3-octylimidazolium tetrafluoroborate as binder compound. <i>Analytical Sciences</i> , 2015 , 31, 29-35	1.7	12
100	Construction and application of an electrochemical sensor for paracetamol determination based on iron tetrapyrroline porphyrin as a biomimetic catalyst of P450 enzyme. <i>Journal of the Brazilian Chemical Society</i> , 2008 , 19, 734-743	1.5	12
99	Otimizaçã da preparaçã de eletrodo de pasta de carbono contendo riboflavina imobilizada em suporte inorgãnico. <i>Quimica Nova</i> , 2004 , 27, 725-729	1.6	12
98	Electrochemical properties of Doyle catalyst immobilized on carbon paste in the presence of DNA. <i>Bioelectrochemistry</i> , 2000 , 51, 145-9	5.6	12
97	Using QCM and SPR for the Kinetic Evaluation of the Binding Between A New Recombinant Chimeric Protein and Specific Antibodies of the Visceral Leishmaniasis. <i>Current Protein and Peptide Science</i> , 2015 , 16, 782-90	2.8	12
96	Structure, Properties, and Electrochemical Sensing Applications of Graphene-Based Materials. <i>ChemElectroChem</i> , 2020 , 7, 4508-4525	4.3	12
95	Synthesis, characterization and kinetics of catalytically active molecularly imprinted polymers for the selective recognition of 4-aminophenol. <i>Journal of the Brazilian Chemical Society</i> , 2009 , 20, 820-825	1.5	11
94	Immobilization of Hexacyanoferrate on a Gold Self-Assembled Monolayer, and its Application as a Sensor for Ascorbic Acid. <i>Mikrochimica Acta</i> , 2006 , 154, 303-308	5.8	11
93	o-Phenylenediamine adsorbed onto silica gel modified with niobium oxide for electrocatalytic NADH oxidation. <i>Electrochimica Acta</i> , 2003 , 48, 3541-3550	6.7	11
92	Simultaneous determination of chloride and potassium in carbohydrate electrolyte beverages using an array of ion-selective electrodes controlled by a microcomputer. <i>Journal of the Brazilian Chemical Society</i> , 2000 , 11, 349-354	1.5	11
91	Modulation of Electrochemical Properties of Graphene Oxide by Photochemical Reduction Using UV-Light Emitting Diodes. <i>ChemistrySelect</i> , 2016 , 1, 1168-1175	1.8	11
90	Versatile and low cost spectroelectrochemical cell for in situ study of electrode surfaces. <i>Electrochimica Acta</i> , 2017 , 232, 150-155	6.7	10
89	Sensing small neurotransmitter-enzyme interaction with nanoporous gated ion-sensitive field effect transistors. <i>Biosensors and Bioelectronics</i> , 2012 , 31, 157-63	11.8	10
88	Measuring the antioxidant capacity of blood plasma using potentiometry. <i>Analytical Biochemistry</i> , 2013 , 441, 109-14	3.1	10
87	One-step synthesis of polymer core-shell particles with a carboxylated ruthenium complex: a potential tool for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2236-2244	7.3	10

86	Development of a disposable amperometric biosensor for salicylate based on a plastic electrochemical microcell. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2200-4	11.8	10
85	Transdutores potenciométricos a base de polímeros condutores: aplicações analíticas. <i>Química Nova</i> , 1997 , 20, 519-527	1.6	10
84	Simple and sensitive electroanalytical method for the determination of ascorbic acid in urine samples using measurements in an aqueous cationic micellar medium. <i>Analytical Sciences</i> , 2008 , 24, 1569-74	1.7	10
83	Aplicações de QCM, EIS e SPR na investigação de superfícies e interfaces para o desenvolvimento de (bio)sensores. <i>Química Nova</i> , 2004 , 27, 970-979	1.6	10
82	Influence of Different Carbon Fibers on Salicylate Microbiosensor Performance. <i>Electroanalysis</i> , 2001 , 13, 131-136	3	10
81	Potentiometric Sensor for L-Ascorbic Acid Based on EVA Membrane Doped with Copper(II). <i>Electroanalysis</i> , 1999 , 11, 475-480	3	10
80	Electrochemical behavior of rhodium acetamidate immobilized on a carbon paste electrode: a hydrazine sensor. <i>Journal of the Brazilian Chemical Society</i> , 2000 , 11, 304-310	1.5	10
79	An integrated platform for gas-diffusion separation and electrochemical determination of ethanol on fermentation broths. <i>Analytica Chimica Acta</i> , 2015 , 875, 33-40	6.6	9
78	Dielectric barrier discharge plasma treatment of modified SU-8 for biosensing applications. <i>Biomedical Optics Express</i> , 2018 , 9, 2168-2175	3.5	9
77	In situ activated nanostructured platform for oxidized glutathione biosensing. <i>Electrochimica Acta</i> , 2013 , 90, 309-316	6.7	9
76	Photoelectrochemical immunodiagnosis of canine leishmaniasis using cadmium-sulfide-sensitized zinc oxide modified with synthetic peptides. <i>Electrochemistry Communications</i> , 2017 , 82, 75-79	5.1	9
75	Synthesis and Electrochemical Characterization of Poly(2-methoxy-4-vinylphenol) with MWCNTs. <i>Electroanalysis</i> , 2011 , 23, 2562-2568	3	9
74	Experimental evidence of the chaotic regime in a salicylate biosensor. <i>Chemical Physics Letters</i> , 1997 , 264, 662-666	2.5	9
73	Azul de metileno imobilizado na celulose/TiO ₂ e SiO ₂ /TiO ₂ : propriedades eletroquímicas e planejamento fatorial. <i>Química Nova</i> , 2006 , 29, 208-212	1.6	9
72	Adequacies of skin puncture for evaluating biochemical and hematological blood parameters in athletes. <i>Clinical Journal of Sport Medicine</i> , 2006 , 16, 418-21	3.2	9
71	Sorption of Hydrogen Peroxide by Titanium (IV) Oxide Grafted on Silica Gel Surface. <i>Journal of Colloid and Interface Science</i> , 1995 , 173, 372-375	9.3	9
70	Micelle-mediated method for simultaneous determination of ascorbic acid and uric acid by differential pulse voltammetry. <i>Journal of the Brazilian Chemical Society</i> , 2008 , 19, 1567-1573	1.5	9
69	Matrix Effect on Electrochemical Properties of [Co(sepulchrate)] ₃ -Immobilized on Silica Gel and Modified Silica Gel Surfaces. <i>Journal of the Brazilian Chemical Society</i> , 1995 , 6, 83-87	1.5	9

68	Phenol based redox mediators in electroanalysis. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 827, 230-252	2.5	9
67	A Novel Sensor Based on Manganese azo-Macrocycle/Carbon Nanotubes to Perform the Oxidation and Reduction Processes of Two Diphenol Isomers. <i>Electroanalysis</i> , 2014 , 26, 602-611	3	8
66	Synthesis, structural and magnetic characterization of a copper(II) complex of 2,6-di(1H-imidazol-2-yl)pyridine and its application in copper-mediated polymerization catalysis. <i>Inorganica Chimica Acta</i> , 2017 , 466, 456-463	2.7	8
65	Cation-Dependent Stabilization of Electrogenenerated Naphthalene Diimide Dianions in Porous Polymer Thin Films and Their Application to Electrical Energy Storage. <i>Angewandte Chemie</i> , 2015 , 127, 13423-13427	3.6	8
64	Modified Carbon Paste Electrode for Kinetic Investigation and Simultaneous Determination of Ascorbic and Uric Acids. <i>Electroanalysis</i> , 2009 , 21, 2311-2320	3	8
63	Alternating Layers of Iron(III) Tetra(N-methyl-4-pyridyl)-porphyrin and Copper Tetrasulfonated Phthalocyanine for Amperometric Detection of 4-Nitrophenol in Nanomolar Levels. <i>Electroanalysis</i> , 2008 , 20, 2333-2339	3	8
62	Development of a voltammetric sensor for diospyrin determination in nanomolar concentrations. <i>Talanta</i> , 2006 , 68, 1378-83	6.2	8
61	Determinação eletroquímica da capacidade antioxidante para avaliação do exercício físico. <i>Quimica Nova</i> , 2004 , 27, 980-985	1.6	8
60	Microbiosensor for Salicylate Based on Modified Carbon Fibre. <i>Analytical Letters</i> , 2000 , 33, 425-442	2.2	8
59	Potentiometric determination of L-ascorbic acid in pharmaceutical samples by FIA using a modified tubular electrode. <i>Journal of the Brazilian Chemical Society</i> , 2000 , 11, 182-186	1.5	8
58	Use of sorghum seed tissue as a biocatalyst in a stirred reactor for oxalic acid determination. <i>Analytical Communications</i> , 1996 , 33, 397		8
57	Effect of carboxylate compounds on the electrochemical behavior of dopamine at a mercury electrode. <i>Journal of the Brazilian Chemical Society</i> , 2003 , 14, 564-579	1.5	8
56	IL-6 and IL-10 are associated with disease severity and higher comorbidity in adults with COVID-19. <i>Cytokine</i> , 2021 , 143, 155507	4	8
55	Paper-based electrochemical sensing devices. <i>Comprehensive Analytical Chemistry</i> , 2020 , 89, 91-137	1.9	7
54	Nanostructured cupric oxide electrode: An alternative to amperometric detection of carbohydrates in anion-exchange chromatography. <i>Analytica Chimica Acta</i> , 2016 , 906, 89-97	6.6	7
53	Chelidamic Acid as a New Eluent for the Determination of Fe(II) and Fe(III) Species and Other Metals by High Performance Chelation Ion Chromatography. <i>Chromatographia</i> , 2012 , 75, 867-873	2.1	7
52	SPR: Uma nova ferramenta para biossensores. <i>Quimica Nova</i> , 2003 , 26, 97-104	1.6	7
51	Electrochemical and electrocatalytic studies of toluidine blue immobilized on a silica gel surface coated with niobium oxide. <i>Journal of the Brazilian Chemical Society</i> , 2002 , 13, 495	1.5	7

50	Silver Inkjet-Printed Electrode on Paper for Electrochemical Sensing of Paraquat. <i>Chemosensors</i> , 2021 , 9, 61	4	7
49	Fabrication of microwell plates and microfluidic devices in polyester films using a cutting printer. <i>Analytica Chimica Acta</i> , 2020 , 1119, 1-10	6.6	6
48	Gravity-assisted distillation on a chip: Fabrication, characterization, and applications. <i>Analytica Chimica Acta</i> , 2018 , 1033, 128-136	6.6	6
47	Critical View on graphene oxide production and its transfer to surfaces aiming electrochemical applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 6478-96	1.3	6
46	Preparation and electrochemical behavior of the CA/TiO ₂ /Sb ₂ O ₅ composite electrode modified with p-benzoquinone. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 690, 74-82	4.1	6
45	Kinetic studies of HRP adsorption on ds-DNA immobilized on gold electrode surface by EIS and SPR. <i>Journal of the Brazilian Chemical Society</i> , 2010 , 21, 1648-1655	1.5	6
44	Amperometric sensor for glutathione reductase activity determination in erythrocyte hemolysate. <i>Analytical Biochemistry</i> , 2003 , 323, 33-8	3.1	6
43	Extraction Properties of Modified Silica Gel for Metal Analysis by Energy Dispersive X-Ray Fluorescence. <i>Analytical Letters</i> , 2000 , 33, 2005-2020	2.2	6
42	Alguns aspectos de imunoensaios aplicados à química analítica. <i>Química Nova</i> , 1999 , 22, 874	1.6	6
41	Electrochemical behavior of self-assembled DNA-gold nanoparticle lattice films. <i>Electrochemistry Communications</i> , 2018 , 90, 51-55	5.1	5
40	Development of an electroactive layer-by-layer assembly based on host-guest supramolecular interactions. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 639, 36-42	4.1	5
39	Electrocatalytic activity of activated niclosamide on multi-walled carbon nanotubes glassy carbon electrode toward NADH oxidation. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 2819-2829	2.6	4
38	Microemulsification-based method: analysis of ethanol in fermentation broth of sugar cane. <i>Analytical Methods</i> , 2015 , 7, 10061-10066	3.2	4
37	Microemulsification-Based Method: Analysis of Monoethylene Glycol in Samples Related to Natural Gas Processing. <i>Energy & Fuels</i> , 2015 , 29, 5649-5654	4.1	4
36	A novel approach for electroanalytical determinations employing discharge of pseudocapacitor by electroactive species. <i>Analytica Chimica Acta</i> , 2018 , 1006, 1-9	6.6	4
35	Sensitive Electroanalytical Detection on GCE: the Case of Lipoic Acid and its Interaction with N-acetylcysteine and Glutathione. <i>Electroanalysis</i> , 2016 , 28, 2818-2826	3	4
34	Influence of microwave heating on fluoride, chloride, nitrate and sulfate concentrations in water. <i>Talanta</i> , 2011 , 85, 2707-10	6.2	4
33	Electrochemical and spectroscopic evidences of the interaction between DNA and Pt(II)(dppf)-complex. <i>BioMetals</i> , 2009 , 22, 385-92	3.4	4

32	Submicrometer-MOS capacitor with ultra high capacitance biased by Au nanoelectrodes. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 94, 831-836	2.6	4
31	Effect on electrochemistry of hexacyanoferrate at carbon fibers after pretreatment with titanium chloride. <i>Journal of Electroanalytical Chemistry</i> , 1998 , 457, 83-88	4.1	4
30	Influence of gamma irradiation on a natural source of peroxidase and its effect in the reagentless amperometric biosensor for hydrogen peroxide. <i>Analyst, The</i> , 2001 , 126, 739-42	5	4
29	Potencialidades da utilizaçã de compostos de rãio na confecã de sensores eletroquãnicos: uma breve revisã. <i>Quimica Nova</i> , 1998 , 21, 755-760	1.6	4
28	Evaluation of PAMAM Dendrimers (G3, G4, and G5) in the Construction of a SPR-based Immunosensor for Cardiac Troponin T. <i>Analytical Sciences</i> , 2021 , 37, 1007-1013	1.7	4
27	Virulence Factors for the Diagnosis of Chagas' Disease. <i>ACS Infectious Diseases</i> , 2019 , 5, 1813-1819	5.5	3
26	Electron transfer in superlattice films based on self-assembled DNA-Gold nanoparticle. <i>Electrochimica Acta</i> , 2019 , 318, 931-936	6.7	3
25	Sensitive Colorimetric Assay Based on Peroxidase-Like Activity of CeO ₂ Nanoparticles Supported on SBA-15 Mesoporous Silica to Determination of H ₂ O ₂ . <i>ChemistrySelect</i> , 2019 , 4, 2160-2167	1.8	3
24	Direct Toner Printing: A Versatile Technology for Easy Fabrication of Flexible Miniaturized Electrodes. <i>Electroanalysis</i> , 2018 , 30, 345-352	3	3
23	A Fluorescence Spot Test for Salicylate Determination. <i>Analytical Letters</i> , 2007 , 40, 573-583	2.2	3
22	Utilizaçã de filtro de transformada de fourier para a minimizaçã de ruãos em sinais analãticos. <i>Quimica Nova</i> , 2000 , 23, 690-698	1.6	3
21	Determination of Oxalate in Grass by FIA with a Spectrophotometric Detection System Using a Two Enzyme Reactor.. <i>Analytical Sciences</i> , 1996 , 12, 443-447	1.7	3
20	Charge Storage in Graphene Oxide: Impact of the Cation on Ion Permeability and Interfacial Capacitance. <i>Analytical Chemistry</i> , 2020 , 92, 10300-10307	7.8	2
19	Aplicaçã e avanãos da espectroscopia de luminescãcia em anãses farmacãuticas. <i>Quimica Nova</i> , 2008 , 31, 1755-1774	1.6	2
18	Electrochemical determination of oncocalyxone A using an iron-phthalocyanine/iron-porphyrin modified glassy carbon electrode. <i>Journal of the Brazilian Chemical Society</i> , 2008 , 19, 697-703	1.5	2
17	Recentes avanãos e novas perspectivas dos eletrodos ãn-seletivos. <i>Quimica Nova</i> , 2006 , 29, 1094-1100	1.6	2
16	ANALYTICAL CHEMISTRY IN BRAZIL. <i>Analytical Letters</i> , 2001 , 34, 471-490	2.2	2
15	Optimization of Metal Extraction Conditions by Modified Silicas Using a Factorial Design.. <i>Analytical Sciences</i> , 1999 , 15, 761-766	1.7	2

14	Wireless Wearable Electrochemical Sensors: A Review 2021 , 8,		2
13	Studies on the effect of the J-domain on the substrate binding domain (SBD) of Hsp70 using a chimeric human J-SBD polypeptide. <i>International Journal of Biological Macromolecules</i> , 2019 , 124, 111-120	7.0	2
12	Distilling small volumes of crude oil. <i>Fuel</i> , 2021 , 285, 119072	7.1	2
11	Intervening factors in the performance of a naked-eye microemulsification-based method and improvements in analytical frequency. <i>Analytical Methods</i> , 2017 , 9, 3347-3355	3.2	1
10	Biosensors for Antioxidant Evaluation in Biological Systems. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2013 , 16, 109-120	1.3	1
9	On the structure and function of Sorghum bicolor CHIP (carboxyl terminus of Hsc70-interacting protein): A link between chaperone and proteasome systems. <i>Plant Science</i> , 2020 , 296, 110506	5.3	1
8	Colloidal chemistry as a guide to design intended dispersions of carbon nanomaterials. <i>Materials Today Chemistry</i> , 2021 , 21, 100526	6.2	1
7	Recent advances in point-of-care biosensors for the diagnosis of neglected tropical diseases. <i>Sensors and Actuators B: Chemical</i> , 2021 , 130821	8.5	1
6	Electrochemical point-of-care devices for monitoring waterborne pathogens: Protozoa, bacteria, and viruses – An overview. <i>Case Studies in Chemical and Environmental Engineering</i> , 2022 , 5, 100182	7.5	0
5	TIMPZ: An Exquisite Building Block for Metal/Hydrogen Coordination Polymers. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 2291-2294	2.3	
4	Electrochemical Approaches Employed for Sensing the Antioxidant Capacity Exhibited by Vegetal Extracts: A Review. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2013 , 16, 98-108	1.3	
3	Giant enhancement of light emission from Au nanocrystals into a porous matrix integrated with silicon platform. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 2592-7	1.3	
2	Antigenotoxic potential of the fermentation broth produced by RNC-D. <i>Future Microbiology</i> , 2021 , 16, 471-485	2.9	
1	Insights into the structure and function of the C-terminus of SGTs (small glutamine-rich TPR-containing proteins): A study of the <i>Aedes aegypti</i> homolog. <i>Biochimie</i> , 2021 , 187, 131-143	4.6	