

Iolanda Cruz Vieira

List of Publications by Citations

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

89 papers	2,901 citations	35 h-index	48 g-index
92 ext. papers	3,102 ext. citations	4.7 avg, IF	5.24 L-index

#	Paper	IF	Citations
89	Biosensor based on platinum nanoparticles dispersed in ionic liquid and laccase for determination of adrenaline. <i>Sensors and Actuators B: Chemical</i> , 2009 , 140, 252-259	8.5	99
88	Electroanalytical determination of sulfadiazine and sulfamethoxazole in pharmaceuticals using a boron-doped diamond electrode. <i>Sensors and Actuators B: Chemical</i> , 2008 , 135, 66-73	8.5	95
87	PEI-coated gold nanoparticles decorated with laccase: a new platform for direct electrochemistry of enzymes and biosensing applications. <i>Biosensors and Bioelectronics</i> , 2013 , 42, 242-7	11.8	76
86	A novel support for laccase immobilization: cellulose acetate modified with ionic liquid and application in biosensor for methyl dopa detection. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3549-54	11.8	76
85	Biosensor based on paraffin/graphite modified with sweet potato tissue for the determination of hydroquinone in cosmetic cream in organic phase. <i>Talanta</i> , 2000 , 52, 681-9	6.2	76
84	Biosensor for luteolin based on silver or gold nanoparticles in ionic liquid and laccase immobilized in chitosan modified with cyanuric chloride. <i>Analyst, The</i> , 2009 , 134, 2320-8	5	73
83	Chronoamperometric determination of paracetamol using an avocado tissue (<i>Persea americana</i>) biosensor. <i>Talanta</i> , 2001 , 55, 685-92	6.2	70
82	Biosensor based on laccase and an ionic liquid for determination of rosmarinic acid in plant extracts. <i>Talanta</i> , 2009 , 77, 1322-7	6.2	67
81	Spectrophotometric determination of methyl dopa and dopamine in pharmaceutical formulations using a crude extract of sweet potato root (<i>Ipomoea batatas</i> (L.) Lam.) as enzymatic source. <i>Talanta</i> , 1998 , 46, 559-64	6.2	62
80	Biosensor based on laccase immobilized on microspheres of chitosan crosslinked with tripolyphosphate. <i>Sensors and Actuators B: Chemical</i> , 2008 , 133, 202-207	8.5	62
79	Development of a biosensor based on gilo peroxidase immobilized on chitosan chemically crosslinked with epichlorohydrin for determination of rutin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006 , 41, 366-72	3.5	61
78	SWEET POTATO (<i>IPOMOEA BATATAS</i> (L.) LAM.) TISSUE AS A BIOCATALYST IN A PARAFFIN/GRAPHITE BIOSENSOR FOR HYDRAZINE DETERMINATION IN BOILER FEED WATER. <i>Analytical Letters</i> , 2002 , 35, 2221-2231	2.2	58
77	Biosensor for chlorogenic acid based on an ionic liquid containing iridium nanoparticles and polyphenol oxidase. <i>Talanta</i> , 2009 , 79, 222-8	6.2	57
76	Biomonitoring of methomyl pesticide by laccase inhibition on sensor containing platinum nanoparticles in ionic liquid phase supported in montmorillonite. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 331-339	8.5	57
75	Synergic effect studies of the bi-enzymatic system laccase-peroxidase in a voltammetric biosensor for catecholamines. <i>Talanta</i> , 2003 , 59, 889-96	6.2	57
74	Uso analítico de tecidos e de extratos brutos vegetais como fonte enzimática. <i>Química Nova</i> , 2002 , 25, 455-464	1.6	55
73	Flow injection spectrophotometric determination of sulfite using a crude extract of sweet potato root (<i>Ipomoea batatas</i> (L.) Lam.) as a source of polyphenol oxidase. <i>Analytica Chimica Acta</i> , 1997 , 354, 51-57	6.6	54

72	Immobilization procedures for the development of a biosensor for determination of hydroquinone using chitosan and gilo (<i>Solanum gilo</i>). <i>Enzyme and Microbial Technology</i> , 2006 , 38, 449-456	3.8	53
71	Rutin determination in pharmaceutical formulations using a carbon paste electrode modified with poly(vinylpyrrolidone). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 47, 973-7	3.5	52
70	Application of bismuth-film electrode for cathodic electroanalytical determination of sulfadiazine. <i>Electrochimica Acta</i> , 2010 , 55, 4970-4975	6.7	51
69	Flow injection spectrophotometric determination of L-Dopa and carbidopa in pharmaceutical formulations using a crude extract of sweet potato root [<i>Ipomoea batatas</i> (L.) Lam.] as enzymatic source. <i>Analyst, The</i> , 1997 , 122, 345-50	5	50
68	Electrochemical Sensor Based on Gold Nanoparticles Stabilized in Poly(Allylamine hydrochloride) for Determination of Vanillin. <i>Electroanalysis</i> , 2015 , 27, 465-472	3	49
67	Biomimetic sensor based on a novel copper complex for the determination of hydroquinone in cosmetics. <i>Sensors and Actuators B: Chemical</i> , 2007 , 122, 89-94	8.5	49
66	L-Cysteine determination in pharmaceutical formulations using a biosensor based on laccase from <i>Aspergillus oryzae</i> . <i>Sensors and Actuators B: Chemical</i> , 2007 , 128, 279-285	8.5	48
65	Electroanalytical determination of estriol hormone using a boron-doped diamond electrode. <i>Talanta</i> , 2010 , 80, 1999-2006	6.2	46
64	Determination of Epinephrine and Dopamine in Pharmaceutical Formulations Using a Biosensor Based on Carbon Paste Modified with Crude Extract of Cara Root (<i>Dioscorea bulbifera</i>). <i>Analytical Letters</i> , 1999 , 32, 39-50	2.2	46
63	Flow injection spectrophotometric determination of hydrogen peroxide using a crude extract of zucchini (<i>Cucurbita pepo</i>) as a source of peroxidase. <i>Analyst, The</i> , 1998 , 123, 1809-1812	5	44
62	A green bean homogenate immobilized on chemically crosslinked chitin for determination of caffeic acid in white wine. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 661-668	3.8	43
61	Bean sprout peroxidase biosensor based on L-cysteine self-assembled monolayer for the determination of dopamine. <i>Sensors and Actuators B: Chemical</i> , 2008 , 133, 364-369	8.5	43
60	Development of biosensors containing laccase and imidazolium bis(trifluoromethylsulfonyl)imide ionic liquid for the determination of rutin. <i>Analytica Chimica Acta</i> , 2009 , 639, 90-5	6.6	42
59	Flow injection spectrophotometric determination of isoproterenol using an avocado (<i>Persea americana</i>) crude extract immobilized on controlled-pore silica reactor. <i>Talanta</i> , 2002 , 57, 135-43	6.2	41
58	Sulfadiazine determination in pharmaceuticals by electrochemical reduction on a glassy carbon electrode. <i>Journal of the Brazilian Chemical Society</i> , 2010 , 21, 813-820	1.5	40
57	Development of a biomimetic chitosan film-coated gold electrode for determination of dopamine in the presence of ascorbic acid and uric acid. <i>Electrochimica Acta</i> , 2010 , 55, 7152-7157	6.7	40
56	Zucchini crude extract-palladium-modified carbon paste electrode for the determination of hydroquinone in photographic developers. <i>Analytica Chimica Acta</i> , 1999 , 398, 145-151	6.6	38
55	A biosensor based on gold nanoparticles stabilized in poly(allylamine hydrochloride) and decorated with laccase for determination of dopamine. <i>Analyst, The</i> , 2016 , 141, 216-24	5	36

54	Liquid crystal and gold nanoparticles applied to electrochemical immunosensor for cardiac biomarker. <i>Biosensors and Bioelectronics</i> , 2014 , 59, 127-33	11.8	34
53	A label-free electrochemical immunosensor based on an ionic organic molecule and chitosan-stabilized gold nanoparticles for the detection of cardiac troponin T. <i>Analyst, The</i> , 2014 , 139, 5200-8	5	33
52	L-Cysteine determination using a polyphenol oxidase-based inhibition flow injection procedure. <i>Analytica Chimica Acta</i> , 1999 , 399, 287-293	6.6	33
51	Determination of thiodicarb using a biosensor based on alfalfa sprout peroxidase immobilized in self-assembled monolayers. <i>Talanta</i> , 2010 , 82, 164-70	6.2	29
50	Self-assembled monolayer of nickel(II) complex and thiol on gold electrode for the determination of catechin. <i>Talanta</i> , 2009 , 78, 1063-8	6.2	29
49	Biosensor based on pequi polyphenol oxidase immobilized on chitosan crosslinked with cyanuric chloride for thiodicarb determination. <i>Enzyme and Microbial Technology</i> , 2010 , 47, 153-158	3.8	29
48	Determination of chlorogenic acid in coffee using a biomimetic sensor based on a new tetranuclear copper(II) complex. <i>Talanta</i> , 2008 , 77, 394-9	6.2	29
47	Gold nanoparticles in an ionic liquid phase supported in a biopolymeric matrix applied in the development of a rosmarinic acid biosensor. <i>Analyst, The</i> , 2011 , 136, 2495-505	5	27
46	Troponin T immunosensor based on liquid crystal and silsesquioxane-supported gold nanoparticles. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1638-43	6.3	26
45	Biosensors based on bean sprout homogenate immobilized in chitosan microspheres and silica for determination of chlorogenic acid. <i>Enzyme and Microbial Technology</i> , 2008 , 43, 381-387	3.8	26
44	Gold Nanoparticles and Hydrophobic Ionic Liquid Applied on the Development of a Voltammetric Biosensor for Polyphenol Determination. <i>Electroanalysis</i> , 2011 , 23, 1124-1133	3	25
43	Development of biosensor based on ionic liquid and corn peroxidase immobilized on chemically crosslinked chitin. <i>Sensors and Actuators B: Chemical</i> , 2009 , 138, 236-243	8.5	25
42	Simultaneous differential pulse voltammetric determination of L-dopa and carbidopa in pharmaceuticals using a carbon paste electrode modified with lead dioxide immobilized in a polyester resin. <i>Journal of the Brazilian Chemical Society</i> , 2007 , 18, 797-803	1.5	25
41	Flow injection spectrophotometric determination of aspartame in dietary products. <i>Analyst, The</i> , 1994 , 119, 2101-4	5	25
40	Biomimetic sensor based on MnIIIMnII complex as manganese peroxidase mimetic for determination of rutin. <i>Talanta</i> , 2009 , 78, 221-6	6.2	24
39	Determina�� de paracetamol em produtos farmac�uticos usando um biossensor de pasta de carbono modificado com extrato bruto de abobrinha (Cucurbita pepo). <i>Quimica Nova</i> , 2003 , 26, 39-43	1.6	24
38	Development of Quercetin Biosensor Through Immobilizing Laccase in a Modified �Cyclodextrin Matrix Containing Ag Nanoparticles in Ionic Liquid. <i>Electroanalysis</i> , 2010 , 22, 1376-1385	3	22
37	Rosmarinic acid determination using biomimetic sensor based on purple acid phosphatase mimetic. <i>Analytica Chimica Acta</i> , 2008 , 613, 91-7	6.6	22

36	A zucchini-peroxidase biosensor applied to dopamine determination. <i>Il Farmaco</i> , 2005 , 60, 179-83		22
35	Pt-Pd bimetallic nanoparticles dispersed in an ionic liquid and peroxidase immobilized on nanoclay applied in the development of a biosensor. <i>Analyst, The</i> , 2013 , 138, 4898-906	5	21
34	Pine nut peroxidase immobilized on chitosan crosslinked with citrate and ionic liquid used in the construction of a biosensor. <i>Enzyme and Microbial Technology</i> , 2009 , 44, 400-405	3.8	21
33	Biosensor Based on Chitosan Biopolymer and Crude Extract of Ginger (<i>Zingiber officinales</i> Rosc.) for the Determination of Hydroquinone in Wastewater of Photographic Process. <i>Analytical Letters</i> , 2004 , 37, 3111-3127	2.2	21
32	Determination of paracetamol using a sensor based on green synthesis of silver nanoparticles in plant extract. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 196, 113912	3.5	21
31	Determination of catechin in green tea using a catechol oxidase biomimetic sensor. <i>Journal of the Brazilian Chemical Society</i> , 2008 , 19, 1215-1223	1.5	20
30	Development of a new biomimetic sensor based on an FeIII/FeII complex for the determination of phenolic compounds. <i>Sensors and Actuators B: Chemical</i> , 2008 , 129, 424-430	8.5	20
29	Label-free Electrochemical Immunosensor for Cardiac Troponin T Based on Exfoliated Graphite Nanoplatelets Decorated with Gold Nanoparticles. <i>Electroanalysis</i> , 2017 , 29, 1820-1827	3	19
28	Halloysite clay nanotubes and platinum nanoparticles dispersed in ionic liquid applied in the development of a catecholamine biosensor. <i>Analyst, The</i> , 2012 , 137, 3732-9	5	19
27	Electroregenerable anion-exchange resin with triiodide carbon paste electrode for the voltammetric determination of adrenaline. <i>Analyst, The</i> , 2002 , 127, 525-9	5	19
26	Sensor for fisetin based on gold nanoparticles in ionic liquid and binuclear nickel complex immobilized in silica. <i>Analyst, The</i> , 2010 , 135, 1015-22	5	18
25	Gold Nanoparticles Stabilized in β -Cyclodextrin and Decorated with Laccase Applied in the Construction of a Biosensor for Rutin. <i>Electroanalysis</i> , 2017 , 29, 1031-1037	3	16
24	Electrochemical immunosensor based on an azo compound for thyroid-stimulating hormone detection. <i>Microchemical Journal</i> , 2017 , 133, 510-517	4.8	15
23	Development of biosensor for phenolic compounds containing PPO in β -cyclodextrin modified support and iridium nanoparticles. <i>Enzyme and Microbial Technology</i> , 2013 , 52, 296-301	3.8	15
22	Methomyl Detection by Inhibition of Laccase Using a Carbon Ceramic Biosensor. <i>Electroanalysis</i> , 2011 , 23, 1623-1630	3	15
21	Jack Fruit-Capric Acid Biosensor for Total Phenols Determination in Wastewaters. <i>Analytical Letters</i> , 2004 , 37, 1833-1846	2.2	15
20	Exfoliated graphite nanoplatelets and gold nanoparticles based electrochemical sensor for determination of levodopa. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 1277-1287	2.6	12
19	Sensor-containing microspheres of chitosan crosslinked with 8-hydroxyquinoline-5-sulphonic acid for determination of Cu(II) in instant coffee. <i>Food Chemistry</i> , 2011 , 126, 807-814	8.5	12

18	A bio-inspired sensor based on surfactant film and Pd nanoparticles. <i>Analyst, The</i> , 2013 , 138, 509-17	5	11
17	Microcystin-LR label-free immunosensor based on exfoliated graphite nanoplatelets and silver nanoparticles. <i>Talanta</i> , 2017 , 175, 38-45	6.2	11
16	Incorpora� de l�quidos i�nicos e nanopart�culas met�licas na constru� de sensores eletroqu�micos. <i>Qu�mica Nova</i> , 2011 , 34, 1042-1050	1.6	11
15	Constru� e aplica� de biossensores usando diferentes procedimentos de imobiliza� da peroxidase de vegetal em matriz de quitosana. <i>Qu�mica Nova</i> , 2006 , 29, 932-939	1.6	11
14	Gold nanoparticles dispersed in zwitterionic surfactant for peroxidase immobilization in biosensor construction. <i>Sensors and Actuators B: Chemical</i> , 2012 , 173, 483-490	8.5	10
13	Ionic Organic Film Sensor for Determination of Phenolic Compounds. <i>Electroanalysis</i> , 2014 , 26, 1801-1809	3	9
12	Imobiliza� da lacase em micropart�culas de quitosana obtidas por spray drying e usadas na constru� de biossensores. <i>Qu�mica Nova</i> , 2009 , 32, 1195-1201	1.6	9
11	Heparin-gold Nanoparticles and Liquid Crystal Applied in Label-free Electrochemical Immunosensor for Prostate-specific Antigen. <i>Electroanalysis</i> , 2018 , 30, 353-360	3	8
10	Bio-inspired sensor based on glutathione peroxidase mimetic for hydrogen peroxide detection. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 782-788	8.5	8
9	Biosensors of laccase based on hydrophobic ionic liquids derived from imidazolium cation. <i>Journal of the Brazilian Chemical Society</i> , 2010 , 21, 1451-1458	1.5	8
8	Genipin-Cross-Linked Chitosan as a Support for Laccase Biosensor. <i>Electroanalysis</i> , 2013 , 25, 557-566	3	7
7	Chapter 17 Electrochemical biosensors based on vegetable tissues and crude extracts for environmental, food and pharmaceutical analysis. <i>Comprehensive Analytical Chemistry</i> , 2007 , 357-377	1.9	7
6	Direct Electrochemical Nano-immunosensor for Microcystin-LR in Seawater. <i>Electroanalysis</i> , 2018 , 30, 819-827	3	6
5	Electrochemical sensor based on rhodium nanoparticles stabilized in zwitterionic surfactant for p-coumaric acid analysis. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 113-119	0.9	3
4	Procedure 22 Voltammetric determination of paracetamol in pharmaceuticals using a zucchini (Cucurbita pepo) tissue biosensor. <i>Comprehensive Analytical Chemistry</i> , 2007 , 49, e157-e161	1.9	3
3	Label-free Immunosensor for the Determination of Microcystin-LR in Water. <i>Electroanalysis</i> , 2020 , 32, 2166-2173	3	2
2	Bioelectroanalytical Determination of Rutin Based on bi-Enzymatic Sensor Containing Iridium Nanoparticles in Ionic Liquid Phase Supported in Clay. <i>Electroanalysis</i> , 2010 , 23, n/a-n/a	3	2
1	Procedure 23 Determination of total phenols in wastewaters using a biosensor based on carbon paste modified with crude extract of jack fruit (Artocarpus integrifolia L.). <i>Comprehensive Analytical Chemistry</i> , 2007 , e163-e168	1.9	

