

# Rita de Cassia Silva Luz

## List of Publications by Citations

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80  
papers

1,505  
citations

22  
h-index

34  
g-index

87  
ext. papers

1,638  
ext. citations

4.4  
avg, IF

4.46  
L-index

#	Paper	IF	Citations
80	Determination of thickness, dielectric constant of thiol films, and kinetics of adsorption using surface plasmon resonance. <i>Langmuir</i> , <b>2005</b> , 21, 602-9	4	97
79	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> , <b>2006</b> , 70, 588-94	6.2	93
78	Voltammetric determination of 4-nitrophenol at a lithium tetracyanoethylene (LiTCNE) modified glassy carbon electrode. <i>Talanta</i> , <b>2004</b> , 64, 935-42	6.2	85
77	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> , <b>2006</b> , 114, 1019-1027	8.5	65
76	Meldola blue immobilized on a new SiO <sub>2</sub> /TiO <sub>2</sub> /graphite composite for electrocatalytic oxidation of NADH. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 4167-4175	6.7	55
75	An amperometric sensor based on electrochemically triggered reaction: Redox-active Ar <sup>III</sup> /Ar <sup>II</sup> HOH from 4-nitrophthalonitrile-modified electrode for the low voltage cysteine detection. <i>Journal of Electroanalytical Chemistry</i> , <b>2008</b> , 612, 87-96	4.1	54
74	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> , <b>2013</b> , 46, 22-9	11.8	50
73	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> , <b>2006</b> , 51, 1304-1312	6.7	38
72	Visible LED light photoelectrochemical sensor for detection of L-Dopa based on oxygen reduction on TiO <sub>2</sub> sensitized with iron phthalocyanine. <i>Electrochemistry Communications</i> , <b>2016</b> , 62, 1-4	5.1	35
71	Ultrasensitive Determination of Malathion Using Acetylcholinesterase Immobilized on Chitosan-Functionalized Magnetic Iron Nanoparticles. <i>Biosensors</i> , <b>2018</b> , 8,	5.9	34
70	Dissolved oxygen amperometric sensor based on layer-by-layer assembly using host-guest supramolecular interactions. <i>Analytica Chimica Acta</i> , <b>2010</b> , 664, 144-50	6.6	34
69	Amperometric sensor for nitrite based on copper tetrasulphonated phthalocyanine immobilized with poly-L-lysine film. <i>Talanta</i> , <b>2008</b> , 75, 333-8	6.2	32
68	Development of a sensor based on tetracyanoethylene (LiTCNE)/poly-L-lysine (PLL) for dopamine determination. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 2675-2683	6.7	32
67	Development of a sensor for L-Dopa based on Co(DMG) <sub>2</sub> ClPy/multi-walled carbon nanotubes composite immobilized on basal plane pyrolytic graphite electrode. <i>Bioelectrochemistry</i> , <b>2012</b> , 86, 22-9	5.6	31
66	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> , <b>2008</b> , 612, 29-36	6.6	31
65	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> , <b>2006</b> , 42, 184-91	3.5	30
64	SPR analysis of the interaction between a recombinant protein of unknown function in Leishmania infantum immobilised on dendrimers and antibodies of the visceral leishmaniasis: A potential use in immunodiagnosis. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 70, 275-81	11.8	29

63	Simultaneous Determination of Caffeine, Ibuprofen, and Paracetamol by Flow-injection Analysis with Multiple-pulse Amperometric Detection on Boron-doped Diamond Electrode. <i>Electroanalysis</i> , <b>2015</b> , 27, 2785-2791	3	25
62	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> , <b>2008</b> , 53, 4706-4714	6.7	25
61	Development of a voltammetric sensor for catechol in nanomolar levels using a modified electrode with Cu(phen) <sub>2</sub> (TCNQ) <sub>2</sub> and PLL. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 117, 274-281	8.5	25
60	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> , <b>2008</b> , 76, 1097-104	6.2	24
59	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> , <b>2015</b> , 221, 740-749	8.5	23
58	Functionalized Multiwalled Carbon Nanotube Electrochemical Sensor for Determination of Anticancer Drug Flutamide. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 5619-5628	1.9	22
57	Study of poly(methylene blue) ultrathin films and its properties by electrochemical surface plasmon resonance. <i>Journal of Electroanalytical Chemistry</i> , <b>2005</b> , 581, 231-240	4.1	22
56	Development of a photoelectrochemical sensor for detection of TBHQ antioxidant based on LiTCNE-TiO <sub>2</sub> composite under visible LED light. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 774, 36-41	4.1	19
55	Determination of sildenafil citrate (Viagra <sup>®</sup> ) in various pharmaceutical formulations by flow injection analysis with multiple pulse amperometric detection. <i>Journal of the Brazilian Chemical Society</i> , <b>2012</b> , 23, 1800-1806	1.5	18
54	Adsorption kinetic and properties of self-assembled monolayer based on mono(6-deoxy-6-mercapto)- $\beta$ -cyclodextrin molecules. <i>Journal of Electroanalytical Chemistry</i> , <b>2007</b> , 601, 181-193	4.1	18
53	Tetracyanoquinodimethanide adsorbed on a silica gel modified with titanium oxide for electrocatalytic oxidation of hydrazine. <i>Journal of Solid State Electrochemistry</i> , <b>2007</b> , 11, 631-638	2.6	18
52	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> , <b>2018</b> , 256, 682-690	8.5	17
51	Application of horseradish peroxidase/polyaniline/bis(2-aminoethyl) polyethylene glycol-functionalized carbon nanotube composite as a platform for hydrogen peroxide detection with high sensitivity at low potential. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 2795-2804	2.6	17
50	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> , <b>2010</b> , 171, 169-178	5.8	17
49	Electrocatalytic Determination of Nitrite on a Rigid Disk Electrode Having Cobalt Phthalocyanine Prepared In Situ. <i>Electroanalysis</i> , <b>2008</b> , 20, 765-770	3	17
48	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> , <b>2015</b> , 212, 287-296	8.5	16
47	Study of the effects of surface pKa and electron transfer kinetics of electroactive 4-nitrothiophenol/4-mercaptobenzoic acid binary SAM on the simultaneous determination of epinephrine and uric acid. <i>Journal of Electroanalytical Chemistry</i> , <b>2013</b> , 703, 158-165	4.1	16
46	Electrocatalytic determination of reduced glutathione in human erythrocytes. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 387, 1891-7	4.4	16

45	Investigations of nanometric films of doped polyaniline by using electrochemical surface plasmon resonance and electrochemical quartz crystal microbalance. <i>Journal of Electroanalytical Chemistry</i> , <b>2006</b> , 589, 70-81	4.1	15
44	Photoelectrochemical determination of tert-butylhydroquinone in edible oil samples employing CdSe/ZnS quantum dots and LiTCNE. <i>Food Chemistry</i> , <b>2017</b> , 227, 16-21	8.5	14
43	DNA and graphene as a new efficient platform for entrapment of methylene blue (MB): Studies of the electrocatalytic oxidation of Nicotinamide adenine dinucleotide. <i>Electrochimica Acta</i> , <b>2013</b> , 111, 543-551	6.7	14
42	Electrochemical properties of self-assembled monolayer based on mono-(6-deoxy-6-mercapto)- $\beta$ -cyclodextrin toward controlled molecular recognition. <i>Electrochimica Acta</i> , <b>2007</b> , 53, 1945-1953	6.7	14
41	Evaluation of a novel composite based on functionalized multi-walled carbon nanotube and iron phthalocyanine for electroanalytical determination of isoniazid. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 1089-1099	2.6	13
40	Self-powered Photoelectrochemical Sensor for Gallic Acid Exploiting a CdSe/ZnS Core-shell Quantum Dot Sensitized TiO <sub>2</sub> as Photoanode. <i>Electroanalysis</i> , <b>2018</b> , 30, 1750-1756	3	12
39	Self-powered sensor for tannic acid exploiting visible LED light as excitation source. <i>Electrochimica Acta</i> , <b>2018</b> , 274, 67-73	6.7	12
38	A glassy carbon electrode modified with an iron N4-macrocycle and reduced graphene oxide for voltammetric sensing of dissolved oxygen. <i>Mikrochimica Acta</i> , <b>2016</b> , 183, 1251-1259	5.8	12
37	A novel platform based on graphene/poly(3,4-ethylenedioxythiophene)/iron (III) hexacyanoferrate (II) composite film for electrocatalytic reduction of H <sub>2</sub> O <sub>2</sub> . <i>Journal of Electroanalytical Chemistry</i> , <b>2014</b> , 732, 93-100	4.1	12
36	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> , <b>2015</b> , 31, 29-35	1.7	12
35	Development of a Novel and Simple Electroanalytical Procedure for the Determination of Copper in Biofuel Employing a Sensor Based on Vulcan Functionalized with Carbazone. <i>Journal of the Brazilian Chemical Society</i> , <b>2018</b> , 29, 671-679	1.5	12
34	Photoelectroanalytical Sensor Based on TiO <sub>2</sub> Nanoparticles/Copper Tetrasulfonated Phthalocyanine for Detection of Dopamine Exploiting Light Emitting Diode Irradiation. <i>Electroanalysis</i> , <b>2016</b> , 28, 2087-2092	3	12
33	A Sensitive Sensor Based on CuTSPc and Reduced Graphene Oxide for Simultaneous Determination of the BHA and TBHQ Antioxidants in Biodiesel Samples. <i>Electroanalysis</i> , <b>2016</b> , 28, 2930-2938	3	11
32	Development of a novel sensor for isoniazid based on 2,3-dichloro-5,6-dicyano-p-benzoquinone and graphene: Application in drug samples utilized in the treatment of tuberculosis. <i>Microchemical Journal</i> , <b>2016</b> , 128, 226-234	4.8	11
31	Photoelectrochemical sensing of tannic acid based on the use of TiO <sub>2</sub> sensitized with 5-methylphenazinium methosulfate and carboxy-functionalized CdTe quantum dots. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 521	5.8	11
30	Exploiting charge/ions compensating processes in PANI/SPANI/reduced graphene oxide composite for development of a high sensitive H <sub>2</sub> O <sub>2</sub> sensor. <i>Journal of Electroanalytical Chemistry</i> , <b>2015</b> , 752, 75-81	4.1	10
29	SiO <sub>2</sub> /TiO <sub>2</sub> /Sb <sub>2</sub> O <sub>5</sub> /graphite carbon ceramic conducting material: preparation, characterization, and its use as an electrochemical sensor. <i>Journal of Solid State Electrochemistry</i> , <b>2010</b> , 14, 115-121	2.6	10
28	Photoelectrochemical sensor for determination of naringin at low oxidation potential using a modified FTO electrode with cadmium sulfide and titanium dioxide sensitized with chloroporphyrin IX iron(III). <i>Journal of Solid State Electrochemistry</i> , <b>2020</b> , 24, 1715-1726	2.6	9

27	Applicability of a novel immunoassay based on surface plasmon resonance for the diagnosis of Chagas disease. <i>Clinica Chimica Acta</i> , <b>2016</b> , 454, 39-45	6.2	9
26	Photoelectrochemical immunodiagnosis of canine leishmaniasis using cadmium-sulfide-sensitized zinc oxide modified with synthetic peptides. <i>Electrochemistry Communications</i> , <b>2017</b> , 82, 75-79	5.1	9
25	Preparation and Properties of the Hybrid Material n-Propyl(3-methylpyridinium)silsesquioxane Chloride. Application in Electrochemical Determination of Nitrite. <i>Electroanalysis</i> , <b>2010</b> , 22, 216-222	3	9
24	Photoelectrochemical-assisted determination of caffeic acid exploiting a composite based on carbon nanotubes, cadmium telluride quantum dots, and titanium dioxide. <i>Analytical Methods</i> , <b>2019</b> , 11, 4775-4784	3.2	8
23	Development of a voltammetric sensor for diospyrin determination in nanomolar concentrations. <i>Talanta</i> , <b>2006</b> , 68, 1378-83	6.2	8
22	Highly sensitive photoelectrochemical immunosensor based on anatase/rutile TiO <sub>2</sub> and Bi <sub>2</sub> S <sub>3</sub> for the zero-biased detection of PSA. <i>Journal of Solid State Electrochemistry</i> , <b>2020</b> , 24, 1801-1809	2.6	7
21	Development of a self-powered photoelectrochemical system (SPPS) for the determination of propyl gallate. <i>Microchemical Journal</i> , <b>2019</b> , 148, 424-432	4.8	6
20	Amperometric Photosensor Based on Acridine Orange/TiO <sub>2</sub> for Chlorogenic Acid Determination in Food Samples. <i>Food Analytical Methods</i> , <b>2018</b> , 11, 2731-2741	3.4	6
19	Exploiting CdSe/ZnS core-shell photocatalyst modified with cytochrome c for epinephrine determination in drugs utilized in cardiopulmonary resuscitation. <i>Microchemical Journal</i> , <b>2018</b> , 139, 18-23	4.8	6
18	Electrochemical sensor for detection of imipramine antidepressant at low potential based on oxidized carbon nanotubes, ferrocenecarboxylic acid, and cyclodextrin: application in psychotropic drugs and urine samples. <i>Journal of Solid State Electrochemistry</i> , <b>2018</b> , 22, 1385-1394	2.6	6
17	Immunodiagnostic of leprosy exploiting a photoelectrochemical platform based on a recombinant peptide mimetic of a Mycobacterium leprae antigen. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 143, 111625	11.8	5
16	Development of an electroactive layer-by-layer assembly based on host-guest supramolecular interactions. <i>Journal of Electroanalytical Chemistry</i> , <b>2010</b> , 639, 36-42	4.1	5
15	Photoelectrochemical platform for sensing propyl gallate in edible oil samples based on CdTe quantum dots and poly(D-glucosamine). <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 725-734	2.6	5
14	Sensitive Electroanalytical Detection on GCE: the Case of Lipoic Acid and its Interaction with N-acetylcysteine and Glutathione. <i>Electroanalysis</i> , <b>2016</b> , 28, 2818-2826	3	4
13	High Sensitive Microsensor Based on Organic-Inorganic Composite for Two-Dimensional Mapping of H <sub>2</sub> O <sub>2</sub> by SECM. <i>Electroanalysis</i> , <b>2015</b> , 27, 1202-1209	3	4
12	Improved NADH Electroanalysis on Nickel(II) Phthalocyanine Tetrasulfonic Acid/ Calf Thymus Deoxyribonucleic Acid/Reduced Graphene Oxide Composite. <i>Journal of the Brazilian Chemical Society</i> , <b>2017</b> ,	1.5	3
11	Electrochemical determination of oncocalyxone A using an iron-phthalocyanine/iron-porphyrin modified glassy carbon electrode. <i>Journal of the Brazilian Chemical Society</i> , <b>2008</b> , 19, 697-703	1.5	2
10	Determination of Colchicine in Pharmaceutical Formulations and Urine by Multiple-Pulse Amperometric Detection in an FIA System Using Boron-Doped Diamond Electrode. <i>Journal of the Brazilian Chemical Society</i> , <b>2018</b> ,	1.5	2

9	A Simple, Cost-effective, and Environmentally Friendly Method for Determination of Ciprofloxacin in Drugs and Urine Samples Based on Electrogenerated Chemiluminescence. <i>Electroanalysis</i> , <b>2020</b> , 32, 1498-1506	3	1
8	Light-emitting Diode-assisted Determination of 2-(1,1-Dimethylethyl)-1,4-Benzenediol in Cosmetic Samples Exploiting TiO <sub>2</sub> Sensitized with Lithium 7,7',8,8'-Tetracyanoquinodimethanide. <i>Electroanalysis</i> , <b>2018</b> , 30, 748-756	3	1
7	Photoelectrochemical biosensor for 1,4-dihydroxybenzene based on copper sulfide and horseradish peroxidase enzyme: Application in skin cream samples. <i>Microchemical Journal</i> , <b>2020</b> , 159, 105487	4.8	1
6	Photoelectrochemical-assisted Batch Injection Analysis (PEC-BIA) of Glucose Exploiting Visible LED Light as an Excitation Source. <i>Electroanalysis</i> , <b>2020</b> , 32, 1608-1617	3	0
5	Photoelectrochemical Sensor for Isoniazid: Application in Drugs Used in the Treatment of Tuberculosis. <i>Electroanalysis</i> , <b>2021</b> , 33, 1936-1944	3	0
4	Electroanalysis of Hydrazine and Related Compounds by Oxidation Promoted with MN <sub>4</sub> Macrocylics <b>2016</b> , 201-223		0
3	Evaluation of a photoelectrochemical platform based on strontium titanate, sulfur doped carbon nitride and palladium nanoparticles for detection of SARS-CoV-2 spike glycoprotein S1. <i>Biosensors and Bioelectronics: X</i> , <b>2022</b> , 11, 100167	2.9	0
2	Lipoic acid as an efficient and versatile redox catalyst for the electroanalysis of N-acetylcysteine: effects of the electrode nature and insights into the catalytic mechanism. <i>Journal of Solid State Electrochemistry</i> , <b>2020</b> , 24, 1835-1843	2.6	
1	Dual-photoelectrode photoelectrochemical cell exploiting a photoanode based on cadmium sulfide and anatase TiO <sub>2</sub> photocatalysts for tannic acid detection. <i>Journal of Solid State Electrochemistry</i> , <b>2021</b> , 25, 2213-2224	2.6	