

Rita de Cássia Silva Luz

List of Publications by Year in descending order

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85
papers

1,812
citations

236612

25
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315357

38
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docs citations

87
times ranked

2298
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of Thickness, Dielectric Constant of Thiol Films, and Kinetics of Adsorption Using Surface Plasmon Resonance. <i>Langmuir</i> , 2005, 21, 602-609.	1.6	113
2	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, 588-594.	2.9	102
3	Voltammetric determination of 4-nitrophenol at a lithium tetracyanoethylene (LiTCNE) modified glassy carbon electrode. <i>Talanta</i> , 2004, 64, 935-942.	2.9	96
4	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.	4.0	74
5	An amperometric sensor based on electrochemically triggered reaction: Redox-active Arâ€“NO/Arâ€“NHOH from 4-nitrophthalonitrile-modified electrode for the low voltage cysteine detection. <i>Journal of Electroanalytical Chemistry</i> , 2008, 612, 87-96.	1.9	59
6	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, 22-29.	5.3	58
7	Meldola blue immobilized on a new SiO ₂ /TiO ₂ /graphite composite for electrocatalytic oxidation of NADH. <i>Electrochimica Acta</i> , 2008, 53, 4167-4175.	2.6	56
8	Ultrasensitive Determination of Malathion Using Acetylcholinesterase Immobilized on Chitosan-Functionalized Magnetic Iron Nanoparticles. <i>Biosensors</i> , 2018, 8, 16.	2.3	48
9	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.	2.6	43
10	Dissolved oxygen amperometric sensor based on layer-by-layer assembly using hostâ€“guest supramolecular interactions. <i>Analytica Chimica Acta</i> , 2010, 664, 144-150.	2.6	42
11	Amperometric sensor for nitrite based on copper tetrasulphonated phthalocyanine immobilized with poly-L-lysine film. <i>Talanta</i> , 2008, 75, 333-338.	2.9	40
12	Visible LED light photoelectrochemical sensor for detection of L-Dopa based on oxygen reduction on TiO ₂ sensitized with iron phthalocyanine. <i>Electrochemistry Communications</i> , 2016, 62, 1-4.	2.3	40
13	Development of a sensor for L-Dopa based on Co(DMG)2ClPy/multi-walled carbon nanotubes composite immobilized on basal plane pyrolytic graphite electrode. <i>Bioelectrochemistry</i> , 2012, 86, 22-29.	2.4	36
14	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> , 2015, 70, 275-281.	5.3	36
15	Development of a sensor based on tetracyanoethylene (LiTCNE)/poly-L-lysine (PLL) for dopamine determination. <i>Electrochimica Acta</i> , 2005, 50, 2675-2683.	2.6	35
16	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, 184-191.	1.4	34
17	Simultaneous Determination of Caffeine, Ibuprofen, and Paracetamol by Flowâ€“injection Analysis with Multipleâ€“pulse Amperometric Detection on Boronâ€“doped Diamond Electrode. <i>Electroanalysis</i> , 2015, 27, 2785-2791.	1.5	34
18	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.	2.6	33

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19	Functionalized Multiwalled Carbon Nanotube Electrochemical Sensor for Determination of Anticancer Drug Flutamide. <i>Journal of Electronic Materials</i> , 2017, 46, 5619-5628.	1.0	32
20	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.	4.0	29
21	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, 1097-1104.	2.9	28
22	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.	1.9	27
23	Electrocatalytic determination of reduced glutathione in human erythrocytes. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1891-1897.	1.9	26
24	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.	2.6	26
25	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.	4.0	26
26	Development of a photoelectrochemical sensor for detection of TBHQ antioxidant based on LiTCNE-TiO ₂ composite under visible LED light. <i>Journal of Electroanalytical Chemistry</i> , 2016, 774, 36-41.	1.9	23
27	Photoelectrochemical determination of tert-butylhydroquinone in edible oil samples employing CdSe/ZnS quantum dots and LiTCNE. <i>Food Chemistry</i> , 2017, 227, 16-21.	4.2	23
28	Determination of sildenafil citrate (Viagra [®]) in various pharmaceutical formulations by flow injection analysis with multiple pulse amperometric detection. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 1800-1806.	0.6	21
29	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.	1.2	20
30	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> , 2013, 17, 2795-2804.	1.2	19
31	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.	4.0	19
32	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.	4.0	19
33	Adsorption kinetic and properties of self-assembled monolayer based on mono(6-deoxy-6-mercapto)- β -2-cyclodextrin molecules. <i>Journal of Electroanalytical Chemistry</i> , 2007, 601, 181-193.	1.9	18
34	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.	2.5	18
35	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> , 2020, 24, 1715-1726.	1.2	18
36	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.	1.9	17

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37	Electrocatalytic Determination of Nitrite on a Rigid Disk Electrode Having Cobalt Phthalocyanine Prepared In Situ. <i>Electroanalysis</i> , 2008, 20, 765-770.	1.5	17
38	DNA and graphene as a new efficient platform for entrapment of methylene blue (MB): Studies of the electrocatalytic oxidation of β^2 -nicotinamide adenine dinucleotide. <i>Electrochimica Acta</i> , 2013, 111, 543-551.	2.6	17
39	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> , 2017, 21, 1089-1099.	1.2	17
40	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> , 2013, 703, 158-165.	1.9	16
41	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> , 2016, 128, 226-234.	2.3	16
42	A glassy carbon electrode modified with an iron N4-macrocycle and reduced graphene oxide for voltammetric sensing of dissolved oxygen. <i>Mikrochimica Acta</i> , 2016, 183, 1251-1259.	2.5	16
43	Self-powered sensor for tannic acid exploiting visible LED light as excitation source. <i>Electrochimica Acta</i> , 2018, 274, 67-73.	2.6	16
44	Highly sensitive photoelectrochemical immunosensor based on anatase/rutile TiO ₂ and Bi ₂ S ₃ for the zero-biased detection of PSA. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1801-1809.	1.2	16
45	Electrochemical properties of self-assembled monolayer based on mono-(6-deoxy-6-mercapto)- β^2 -cyclodextrin toward controlled molecular recognition. <i>Electrochimica Acta</i> , 2007, 53, 1945-1953.	2.6	15
46	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> , 2016, 28, 2930-2938.	1.5	15
47	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> , 2018, 29, 671-679.	0.6	15
48	Ultrasensitive Biosensor for Detection of Organophosphorus Pesticides Based on a Macrocyclic Complex/Carbon Nanotubes Composite and 1-Methyl-3-octylimidazolium Tetrafluoroborate as Binder Compound. <i>Analytical Sciences</i> , 2015, 31, 29-35.	0.8	14
49	Exploiting charge/ions compensating processes in PANI/SPANI/reduced graphene oxide composite for development of a high sensitive H ₂ O ₂ sensor. <i>Journal of Electroanalytical Chemistry</i> , 2015, 752, 75-81.	1.9	14
50	Photoelectroanalytical Sensor Based on TiO ₂ Nanoparticles/Copper Tetrasulfonated Phthalocyanine for Detection of Dopamine Exploiting Light Emitting Diode Irradiation. <i>Electroanalysis</i> , 2016, 28, 2087-2092.	1.5	14
51	Self-powered Photoelectrochemical Sensor for Gallic Acid Exploiting a CdSe/ZnS Core-shell Quantum Dot Sensitized TiO ₂ as Photoanode. <i>Electroanalysis</i> , 2018, 30, 1750-1756.	1.5	14
52	Photoelectrochemical sensing of tannic acid based on the use of TiO ₂ sensitized with 5-methylphenazinium methosulfate and carboxy-functionalized CdTe quantum dots. <i>Mikrochimica Acta</i> , 2018, 185, 521.	2.5	14
53	A novel platform based on graphene/poly(3,4-ethylenedioxythiophene)/iron (III) hexacyanoferrate (II) composite film for electrocatalytic reduction of H ₂ O ₂ . <i>Journal of Electroanalytical Chemistry</i> , 2014, 732, 93-100.	1.9	13
54	Applicability of a novel immunoassay based on surface plasmon resonance for the diagnosis of Chagas disease. <i>Clinica Chimica Acta</i> , 2016, 454, 39-45.	0.5	13

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55	SiO ₂ /TiO ₂ /Sb ₂ O ₅ /graphite carbon ceramic conducting material: preparation, characterization, and its use as an electrochemical sensor. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 115-121.	1.2	12
56	Preparation and Properties of the Hybrid Material ϵ -Propyl(3-methylpyridinium)silsesquioxane Chloride. Application in Electrochemical Determination of Nitrite. <i>Electroanalysis</i> , 2010, 22, 216-222.	1.5	12
57	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> , 2018, 22, 1385-1394.	1.2	11
58	Development of a voltammetric sensor for diospyrin determination in nanomolar concentrations. <i>Talanta</i> , 2006, 68, 1378-1383.	2.9	10
59	Photoelectrochemical-assisted determination of caffeic acid exploiting a composite based on carbon nanotubes, cadmium telluride quantum dots, and titanium dioxide. <i>Analytical Methods</i> , 2019, 11, 4775-4784.	1.3	10
60	Photoelectrochemical immunodiagnosis of canine leishmaniasis using cadmium-sulfide-sensitized zinc oxide modified with synthetic peptides. <i>Electrochemistry Communications</i> , 2017, 82, 75-79.	2.3	9
61	Development of a self-powered photoelectrochemical system (SPPS) for the determination of propyl gallate. <i>Microchemical Journal</i> , 2019, 148, 424-432.	2.3	9
62	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> , 2019, 23, 725-734.	1.2	9
63	Amperometric Photosensor Based on Acridine Orange/TiO ₂ for Chlorogenic Acid Determination in Food Samples. <i>Food Analytical Methods</i> , 2018, 11, 2731-2741.	1.3	8
64	Exploiting CdSe/ZnS core-shell photocatalyst modified with cytochrome c for epinephrine determination in drugs utilized in cardiopulmonary resuscitation. <i>Microchemical Journal</i> , 2018, 139, 18-23.	2.3	8
65	Immunodiagnostic of leprosy exploiting a photoelectrochemical platform based on a recombinant peptide mimetic of a <i>Mycobacterium leprae</i> antigen. <i>Biosensors and Bioelectronics</i> , 2019, 143, 111625.	5.3	7
66	Development of an electroactive layer-by-layer assembly based on host-guest supramolecular interactions. <i>Journal of Electroanalytical Chemistry</i> , 2010, 639, 36-42.	1.9	5
67	High Sensitive Microsensor Based on Organic-Inorganic Composite for Two-Dimensional Mapping of H ₂ O ₂ by SECM. <i>Electroanalysis</i> , 2015, 27, 1202-1209.	1.5	5
68	Sensitive Electroanalytical Detection on GCE: the Case of Lipoic Acid and its Interaction with ϵ -acetylcysteine and Glutathione. <i>Electroanalysis</i> , 2016, 28, 2818-2826.	1.5	5
69	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> , 2017, . .	0.6	4
70	A Simple, Cost-effective, and Environmentally Friendly Method for Determination of Ciprofloxacin in Drugs and Urine Samples Based on Electrogenerated Chemiluminescence. <i>Electroanalysis</i> , 2020, 32, 1498-1506.	1.5	4
71	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> , 2022, 11, 100167.	0.9	4
72	Electroanalysis of Hydrazine and Related Compounds by Oxidation Promoted with MN ₄ Macrocyclics. , 2016, , 201-223.		3

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73	Determination of Colchicine in Pharmaceutical Formulations and Urine by Multiple-Pulse Amperometric Detection in an FIA System Using Boron-Doped Diamond Electrode. Journal of the Brazilian Chemical Society, 0, , .	0.6	3
74	Electrochemical determination of oncocalyxone A using an iron-phthalocyanine/iron-porphyrin modified glassy carbon electrode. Journal of the Brazilian Chemical Society, 2008, 19, 697-703.	0.6	2
75	Light-Emitting Diode-Assisted Determination of 2-(1,1-Dimethylethyl)-4-Benzenediol in Cosmetic Samples Exploiting TiO ₂ Sensitized with Lithium 7,7,8,8-Tetracyanoquinodimethanide. Electroanalysis, 2018, 30, 748-756.	1.5	2
76	Photoelectrochemical biosensor for 1,4-dihydroxybenzene based on copper sulfide and horseradish peroxidase enzyme: Application in skin cream samples. Microchemical Journal, 2020, 159, 105487.	2.3	2
77	Photoelectrochemical Sensor for Isoniazid: Application in Drugs Used in the Treatment of Tuberculosis. Electroanalysis, 2021, 33, 1936-1944.	1.5	2
78	Amperometric Electrochemical Platform for Hydrazine Determination Exploiting Reduced Graphene Oxide, Co(Salophen) and DNA: Application in Pharmaceutical Formulations Samples. Journal of the Brazilian Chemical Society, 2018, , .	0.6	1
79	Photoelectrochemical-Assisted Batch Injection Analysis (PEC-BIA) of Glucose Exploiting Visible LED Light as an Excitation Source. Electroanalysis, 2020, 32, 1608-1617.	1.5	1
80	Dual-photoelectrode photoelectrochemical cell exploiting a photoanode based on cadmium sulfide and anatase TiO ₂ photocatalysts for tannic acid detection. Journal of Solid State Electrochemistry, 2021, 25, 2213-2224.	1.2	1
81	Development of a Selective and Sensitive Sensor for Urate Determination Based on Tris(1,10-phenantroline)copper(II) Bis(tetracyanoquinodimethanide) Adsorbed on Carbon Nanotubes. Journal of the Brazilian Chemical Society, 2015, , .	0.6	1
82	Determination of 3,4,5-Trihydroxybenzoic Acid Exploiting a Visible-Light-Driven Photoelectrochemical Platform: Application in Wine and Tea Samples. Journal of the Brazilian Chemical Society, 0, , .	0.6	1
83	Photoelectroanalytical Detection of Adrenaline Based on DNA and TiO ₂ Nanoparticles Sensitized with Bis(ethylenedithio)tetrathiafulvalene Exploiting LED Light. Journal of the Brazilian Chemical Society, 0, , .	0.6	0
84	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. Journal of Solid State Electrochemistry, 2020, 24, 1835-1843.	1.2	0
85	Light-Assisted Batch Injection Analysis of Glucose Exploiting a p-n-Homojunction Based on Cu ₂ O. Journal of the Brazilian Chemical Society, 0, , .	0.6	0