

Rita de Cássia Silva Luz

List of Publications by Year in descending order

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85
papers

1,812
citations

236925

25
h-index

315739

38
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87
all docs

87
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. | 3.5 | 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. | 5.5 | 102 |
| 3 | Voltammetric determination of 4-nitrophenol at a lithium tetracyanoethylene (LiTCNE) modified glassy carbon electrode. <i>Talanta</i> , 2004, 64, 935-942. | 5.5 | 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. | 7.8 | 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. | 3.8 | 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. | 10.1 | 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. | 5.2 | 56 |
| 8 | Ultrasensitive Determination of Malathion Using Acetylcholinesterase Immobilized on Chitosan-Functionalized Magnetic Iron Nanoparticles. <i>Biosensors</i> , 2018, 8, 16. | 4.7 | 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. | 5.2 | 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. | 5.4 | 42 |
| 11 | Amperometric sensor for nitrite based on copper tetrasulphonated phthalocyanine immobilized with poly-L-lysine film. <i>Talanta</i> , 2008, 75, 333-338. | 5.5 | 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. | 4.7 | 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. | 4.6 | 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. | 10.1 | 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. | 5.2 | 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. | 2.8 | 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. | 2.9 | 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. | 5.4 | 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. | 2.2 | 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. | 7.8 | 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. | 5.5 | 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. | 3.8 | 27 |
| 23 | Electrocatalytic determination of reduced glutathione in human erythrocytes. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1891-1897. | 3.7 | 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. | 5.2 | 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. | 7.8 | 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. | 3.8 | 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. | 8.2 | 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. | 2.5 | 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. | 2.5 | 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. | 7.8 | 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. | 7.8 | 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. | 3.8 | 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. | 5.0 | 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. | 2.5 | 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. | 3.8 | 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. | 2.9 | 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. | 5.2 | 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. | 2.5 | 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. | 3.8 | 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. | 4.5 | 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. | 5.0 | 16 |
| 43 | Self-powered sensor for tannic acid exploiting visible LED light as excitation source. <i>Electrochimica Acta</i> , 2018, 274, 67-73. | 5.2 | 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. | 2.5 | 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. | 5.2 | 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. | 2.9 | 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 Macrocycle Complex/Carbon Nanotubes Composite and 1-Methyl-3-octylimidazolium Tetrafluoroborate as Binder Compound. <i>Analytical Sciences</i> , 2015, 31, 29-35. | 1.6 | 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. | 3.8 | 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. | 2.9 | 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. | 2.9 | 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. | 5.0 | 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. | 3.8 | 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. | 1.1 | 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. | 2.5 | 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. | 2.9 | 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. | 2.5 | 11 |
| 58 | Development of a voltammetric sensor for diospyrin determination in nanomolar concentrations. <i>Talanta</i> , 2006, 68, 1378-1383. | 5.5 | 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. | 2.7 | 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. | 4.7 | 9 |
| 61 | Development of a self-powered photoelectrochemical system (SPPS) for the determination of propyl gallate. <i>Microchemical Journal</i> , 2019, 148, 424-432. | 4.5 | 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. | 2.5 | 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. | 2.6 | 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. | 4.5 | 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. | 10.1 | 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. | 3.8 | 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. | 2.9 | 5 |
| 68 | 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. | 2.9 | 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. | 2.9 | 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. | 1.7 | 4 |
| 72 | Electroanalysis of Hydrazine and Related Compounds by Oxidation Promoted with MN4 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. | 2.9 | 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. | 4.5 | 2 |
| 77 | Photoelectrochemical Sensor for Isoniazid: Application in Drugs Used in the Treatment of Tuberculosis. Electroanalysis, 2021, 33, 1936-1944. | 2.9 | 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. | 2.9 | 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. | 2.5 | 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. | 2.5 | 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 |