

Tiago A Silva

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,866
citations

201674

27
h-index

276875

41
g-index

61
all docs

61
docs citations

61
times ranked

2458
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Biosensors Based on Nanostructured Carbon Black: A Review. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-14.	2.7	90
2	Diamond-coated "black silicon"™ as a promising material for high-surface-area electrochemical electrodes and antibacterial surfaces. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5737-5746.	5.8	86
3	Simultaneous determination of isoproterenol, acetaminophen, folic acid, propranolol and caffeine using a sensor platform based on carbon black, graphene oxide, copper nanoparticles and PEDOT:PSS. <i>Talanta</i> , 2018, 183, 329-338.	5.5	80
4	Electrochemical behaviour of vertically aligned carbon nanotubes and graphene oxide nanocomposite as electrode material. <i>Electrochimica Acta</i> , 2014, 119, 114-119.	5.2	79
5	Simultaneous voltammetric determination of dopamine and epinephrine in human body fluid samples using a glassy carbon electrode modified with nickel oxide nanoparticles and carbon nanotubes within a dihexadecylphosphate film. <i>Analyst</i> , 2014, 139, 2842.	3.5	78
6	The application of graphene for in vitro and in vivo electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2017, 89, 224-233.	10.1	78
7	A nanodiamond-based electrochemical sensor for the determination of pyrazinamide antibiotic. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 315-323.	7.8	77
8	Electrochemical paper-based microfluidic device for high throughput multiplexed analysis. <i>Talanta</i> , 2019, 203, 280-286.	5.5	72
9	A digital image-based method employing a spot-test for quantification of ethanol in drinks. <i>Analytical Methods</i> , 2015, 7, 4138-4144.	2.7	64
10	Pb(II) determination in natural water using a carbon nanotubes paste electrode modified with crosslinked chitosan. <i>Microchemical Journal</i> , 2014, 116, 191-196.	4.5	56
11	Electrochemical sensor based on graphene oxide and ionic liquid for ofloxacin determination at nanomolar levels. <i>Talanta</i> , 2016, 161, 333-341.	5.5	56
12	Square-wave voltammetric determination of clindamycin using a glassy carbon electrode modified with graphene oxide and gold nanoparticles within a crosslinked chitosan film. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 183-193.	7.8	50
13	Effect of carbon black functionalization on the analytical performance of a tyrosinase biosensor based on glassy carbon electrode modified with dihexadecylphosphate film. <i>Enzyme and Microbial Technology</i> , 2018, 116, 41-47.	3.2	48
14	Electrochemical Performance of Porous Diamond-like Carbon Electrodes for Sensing Hormones, Neurotransmitters, and Endocrine Disruptors. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21086-21092.	8.0	42
15	Polyphenol oxidase-based electrochemical biosensors: A review. <i>Analytica Chimica Acta</i> , 2020, 1139, 198-221.	5.4	40
16	Simultaneous electrochemical sensing of ascorbic acid and uric acid under biofouling conditions using nanoporous gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2019, 846, 113160.	3.8	39
17	Electrochemical sensor based on ionic liquid and carbon black for voltammetric determination of Allura red colorant at nanomolar levels in soft drink powders. <i>Talanta</i> , 2020, 209, 120588.	5.5	38
18	Differential pulse adsorptive stripping voltammetric determination of nanomolar levels of atorvastatin calcium in pharmaceutical and biological samples using a vertically aligned carbon nanotube/graphene oxide electrode. <i>Analyst</i> , 2014, 139, 2832.	3.5	37

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19	Voltammetric Studies of Propranolol and Hydrochlorothiazide Oxidation in Standard and Synthetic Biological Fluids Using a Nitrogen-Containing Tetrahedral Amorphous Carbon (ta-C:N) Electrode. <i>Electrochimica Acta</i> , 2014, 143, 398-406.	5.2	36
20	Use of a boron-doped diamond electrode to assess the electrochemical response of the naphthol isomers and to attain their truly simultaneous electroanalytical determination. <i>Electrochimica Acta</i> , 2017, 243, 374-381.	5.2	35
21	Non-enzymatic electrochemical determination of creatinine using a novel screen-printed microcell. <i>Talanta</i> , 2020, 207, 120277.	5.5	35
22	New Disposable Electrochemical Paper-based Microfluidic Device with Multiplexed Electrodes for Biomarkers Determination in Urine Sample. <i>Electroanalysis</i> , 2020, 32, 1075-1083.	2.9	35
23	Methylic and ethylic biodiesels from pequi oil (<i>Caryocar brasiliense</i> Camb.): Production and thermogravimetric studies. <i>Fuel</i> , 2014, 136, 10-18.	6.4	34
24	Effect of the surface organization with carbon nanotubes on the electrochemical detection of bisphenol A. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 14-18.	7.8	33
25	A digital image analysis method for quantification of sulfite in beverages. <i>Analytical Methods</i> , 2015, 7, 7568-7573.	2.7	33
26	Electroanalytical sensing of indigo carmine dye in water samples using a cathodically pretreated boron-doped diamond electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016, 769, 28-34.	3.8	33
27	Electrochemical determination of rosuvastatin calcium in pharmaceutical and human body fluid samples using a composite of vertically aligned carbon nanotubes and graphene oxide as the electrode material. <i>Sensors and Actuators B: Chemical</i> , 2015, 218, 51-59.	7.8	30
28	Flow injection analysis system with electrochemical detection for the simultaneous determination of nanomolar levels of acetaminophen and codeine. <i>Arabian Journal of Chemistry</i> , 2020, 13, 335-345.	4.9	30
29	Novel electrochemical sensor based on nanodiamonds and manioc starch for detection of diquat in environmental samples. <i>Diamond and Related Materials</i> , 2019, 98, 107512.	3.9	28
30	Voltammetric sensing of fenitrothion in natural water and orange juice samples using a single-walled carbon nanohorns and zein modified sensor. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 21-26.	3.8	28
31	Promising electrochemical performance of high-surface-area boron-doped diamond/carbon nanotube electroanalytical sensors. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2403-2409.	2.5	25
32	Square-wave voltammetric determination of rosuvastatin calcium in pharmaceutical and biological fluid samples using a cathodically pretreated boron-doped diamond electrode. <i>Diamond and Related Materials</i> , 2015, 58, 103-109.	3.9	23
33	Novel eco-friendly water-based conductive ink for the preparation of disposable screen-printed electrodes for sensing and biosensing applications. <i>Electrochimica Acta</i> , 2022, 409, 139968.	5.2	23
34	Simultaneous Voltammetric Determination of Paracetamol, Codeine and Caffeine on Diamond-like Carbon Porous Electrodes. <i>Electroanalysis</i> , 2017, 29, 907-916.	2.9	21
35	Novel titanate nanotubes-cyanocobalamin materials: Synthesis and enhanced photocatalytic properties for pollutants removal. <i>Solid State Sciences</i> , 2017, 63, 30-41.	3.2	21
36	An Overview of Pesticide Monitoring at Environmental Samples Using Carbon Nanotubes-Based Electrochemical Sensors. <i>Journal of Carbon Research</i> , 2017, 3, 8.	2.7	21

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37	Square-wave adsorptive anodic stripping voltammetric determination of ramipril using an electrochemical sensor based on nanostructured carbon black. <i>Analytical Methods</i> , 2017, 9, 4680-4687.	2.7	20
38	Study of electrooxidation and enhanced voltammetric determination of β -blocker pindolol using a boron-doped diamond electrode. <i>Diamond and Related Materials</i> , 2018, 82, 109-114.	3.9	20
39	A combination of voltammetry of immobilized microparticles and carbon black-based crosslinked chitosan films deposited on glassy carbon electrode for the quantification of hydroquinone in dermatologic cream samples. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2859-2868.	2.5	17
40	Gold-Nanoparticle-Decorated Titanium Nitride Electrodes Prepared by Glancing-Angle Deposition for Sensing Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 1562-1569.	5.0	17
41	Electrochemical sensing of levodopa or carbidopa using a glassy carbon electrode modified with carbon nanotubes within a poly(allylamine hydrochloride) film. <i>Analytical Methods</i> , 2016, 8, 1274-1280.	2.7	16
42	Porous boron-doped diamond/CNT electrode as electrochemical sensor for flow-injection analysis applications. <i>Diamond and Related Materials</i> , 2017, 74, 182-190.	3.9	16
43	Sensitive voltammetric determination of hydroxyzine and its main metabolite cetirizine and identification of oxidation products by nuclear magnetic resonance spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2017, 807, 187-195.	3.8	15
44	A novel architecture based upon multi-walled carbon nanotubes and ionic liquid to improve the electroanalytical detection of ciprofibrate. <i>Analyst</i> , 2014, 139, 3961.	3.5	14
45	Determination of tadalafil in pharmaceutical samples by vertically oriented multi-walled carbon nanotube electrochemical sensing device. <i>Journal of Electroanalytical Chemistry</i> , 2020, 877, 114501.	3.8	12
46	Electroanalytical determination of eugenol in clove oil by voltammetry of immobilized microdroplets. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2277-2285.	2.5	11
47	Sensitive Voltammetric Detection of Chloroquine Drug by Applying a Boron-Doped Diamond Electrode. <i>Journal of Carbon Research</i> , 2020, 6, 75.	2.7	10
48	Carbon black-chitosan film-based electrochemical sensor for losartan. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1827-1834.	2.5	10
49	Homogeneous catalysis of soybean oil transesterification via methylic and ethylic routes: Multivariate comparison. <i>Energy</i> , 2014, 67, 569-574.	8.8	8
50	Graphite Oxide and Gold Nanoparticles as Alternative Materials in the Design of a Highly Sensitive Electrochemical Sensor for the Simultaneous Determination of Biological Species. <i>Electroanalysis</i> , 2017, 29, 2491-2497.	2.9	7
51	A voltammetric sensor based on a carbon black and chitosan-stabilized gold nanoparticle nanocomposite for ketoconazole determination. <i>Analytical Methods</i> , 2021, 13, 4495-4502.	2.7	7
52	A novel carbon nanosphere-based sensor used for herbicide detection. <i>Environmental Technology and Innovation</i> , 2021, 22, 101529.	6.1	7
53	Sensitive and Selective Voltammetric Determination of Ciprofloxacin Using Screen-Printed Electrodes Modified with Carbon Black and Magnetic-Molecularly Imprinted Polymer. <i>Electroanalysis</i> , 2023, 35, .	2.9	5
54	Nanoporous Pt(Au) Alloys for the Enhanced, Non-Enzymatic Detection of Hydrogen Peroxide under Biofouling Conditions. <i>Electroanalysis</i> , 0, , .	2.9	4

#	ARTICLE	IF	CITATIONS
55	A Compact Microcontrolled Microfluidic System for Photometric Determination of Phosphate in Natural Water Samples. Australian Journal of Chemistry, 2015, 68, 1108.	0.9	3
56	Preparation and electroanalytical applications of vertically aligned carbon nanotubes. SPR Electrochemistry, 2015, , 50-96.	0.7	3
57	Biotechnological Applications of Lipases in Biodiesel Production. , 2013, , .		2
58	Sensing Materials: Nanomaterials Definition. , 2021, , .		1
59	Screen-Printed Electrochemical Sensors and Biosensors for Detection of Biomarkers. , 2022, , 113-140.		1
60	Synthesis, Attractiveness and Effectiveness of Chitosan-Tapioca Encapsulates in Atta Sexdens (Hymenoptera: Formicidae). Journal of Polymers and the Environment, 2021, 29, 2869-2880.	5.0	0