Silvia Helena Pires Serrano

List of Publications by Year
in descending order

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Version: 2024-02-01

62 papers	2,012 citations	236925 25 h-index	243625 44 g-index
62 all docs	62 docs citations	62 times ranked	2096 citing authors

#	Article	IF	Citations
1	On the adsorption and electrochemical oxidation of DNA at glassy carbon electrodes. Journal of Electroanalytical Chemistry, 1994, 366, 225-231.	3.8	153
2	Simultaneous voltammetric detection of ascorbic acid, dopamine and uric acid using a pyrolytic graphite electrode modified into dopamine solution. Analytica Chimica Acta, 2008, 612, 89-98.	5.4	148
3	Electrochemical Oxidation of 8-Oxoguanine. Electroanalysis, 2000, 12, 969-973.	2.9	140
4	Voltammetric behaviour of mitoxantrone at a DNA-biosensor. Biosensors and Bioelectronics, 1998, 13, 861-867.	10.1	113
5	Study of NADH Stability Using Ultravioletâ€“Visible Spectrophotometric Analysis and Factorial Design. Analytical Biochemistry, 1998, 260, 50-55.	2.4	111
6	Electrochemical determination of carboplatin in serum using a DNA-modified glassy carbon electrode. Electroanalysis, 1996, 8, 992-995.	2.9	103
7	Dopamine oxidation at gold electrodes: mechanism and kinetics near neutral pH. Physical Chemistry Chemical Physics, 2020, 22, 607-614.	2.8	80
8	Comparison of the voltammetric behavior of metronidazole at a DNA-modified glassy carbon electrode, a mercury thin film electrode and a glassy carbon electrode. Electroanalysis, 1997, 9, 110-114.	2.9	72
9	Voltammetric behavior of nitroimidazoles at a DNA-biosensor. Electroanalysis, 1997, 9, 1132-1137.	2.9	68
10	Voltammetric behavior of benznidazole at a DNA-electrochemical biosensor. Journal of Pharmaceutical and Biomedical Analysis, 2002, 29, 561-568.	2.8	57
11	Electrochemical reduction of metronidazole at a DNA-modified glassy carbon electrode. Bioelectrochemistry, 1997, 42, 175-178.	1.0	53
12	An EIS study of DNA-modified electrodes. Electrochimica Acta, 1999, 44, 4233-4239.	5.2	52
13	Biosensing hydrogen peroxide utilizing carbon paste electrodes containing peroxidases naturally immobilized on coconut (Cocus nucifera L.) fibers. Analytica Chimica Acta, 2007, 591, 200-207.	5.4	50
14	Flow-injection determination of catechol with a new tyrosinase/DNA biosensor1Presented in part at the VII International Conference on Flow Analysis, Piracicaba, Brazil, 1997.1. Analytica Chimica Acta, 1998, 366, 137-145.	5.4	46
15	Voltammetric Behaviour of Metronidazole at Mercury Electrodes. Journal of the Brazilian Chemical Society, 1999, 10, 127.	0.6	44
16	Aspectos mecanÃsticos da bioatividade e toxicidade de nitrocompostos. Quimica Nova, 2009, 32, 1013-1020.	0.3	42
17	SEM and Raman analysis of boron-doped diamond coating on spherical textured substrates. Surface and Coatings Technology, 2006, 200, 5973-5977.	4.8	41
18	Electrochemical oxidation of mitoxantrone at a glassy carbon electrode. Analytica Chimica Acta, 1999, 385, 401-408.	5.4	38

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19	The Electrochemical Oxidation of DNA. Journal of the Brazilian Chemical Society, 1995, 6, 97-100.	0.6	35
20	Voltammetric detection of the interactions between RNO2â˜' and electron acceptors in aqueous medium at highly boron doped diamond electrode (HBDDE). Electrochimica Acta, 2006, 51, 5080-5086.	5.2	33
21	Chapter 20 DNA-electrochemical biosensors for investigating DNA damage. Comprehensive Analytical Chemistry, 2007, , 413-437.	1.3	31
22	Amperometric detection of benzoyl peroxide in pharmaceutical preparations using carbon paste electrodes with peroxidases naturally immobilized on coconut fibersâ˜†. Biosensors and Bioelectronics, 2010, 25, 1143-1148.	10.1	30
23	Voltammetric Behavior of Nitrofurazone at Highly Boron Doped Diamond Electrode. Electroanalysis, 2005, 17, 269-274.	2.9	29
24	Cyclic voltammetry and computational chemistry studies on the evaluation of the redox behavior of parabens and other analogues. Journal of the Brazilian Chemical Society, 2012, 23, 565-572.	0.6	29
25	In situ evaluation of gemcitabineâ€“DNA interaction using a DNA-electrochemical biosensor. Bioelectrochemistry, 2014, 99, 40-45.	4.6	29
26	Electrochemically Active L-Cysteine Gold Modified Electrodes. Electrochimica Acta, 2014, 125, 566-572.	5.2	25
27	Voltammetric behavior of nitrofurazone and its hydroxymethyl prodrug with potential anti-Chagas activity. Journal of the Brazilian Chemical Society, 2005, 16, 774-782.	0.6	23
28	Electrochemistry of DNA. Comprehensive Chemical Kinetics, 1999, 37, 91-119.	2.3	22
29	Lignin-AuNp modified carbon paste electrodesâ€”Preparation, characterization, and applications. Electrochimica Acta, 2013, 96, 191-198.	5.2	22
30	Electrochemical Oxidation of Sulfasalazine at a Glassy Carbon Electrode. Electroanalysis, 2014, 26, 924-930.	2.9	22
31	Electrochemical evaluation of rhodium dimer-DNA interactions. Journal of Pharmaceutical and Biomedical Analysis, 2002, 29, 579-584.	2.8	21
32	Desferrioxamine and desferrioxamine-caffeine as carriers of aluminum and gallium to microbes via the Trojan Horse Effect. Journal of Trace Elements in Medicine and Biology, 2017, 41, 16-22.	3.0	18
33	Rhodium-Prussian Blue modified carbon paste electrode (Rh-PBMCPE) for amperometric detection of hydrogen peroxide. Journal of the Brazilian Chemical Society, 2003, 14, 551-555.	0.6	17
34	Electrochemical oxidation of NADH at a bare glassy carbon electrode in different supporting electrolytes. Analytica Chimica Acta, 1999, 385, 345-352.	5.4	15
35	Filmes de diamante CVD dopado com boro. Parte I . HistÃ³rico, produÃ§Ã£o e caracterizaÃ§Ã£o. Quimica Nova, 2005, 28, 317-325.	0.3	15
36	Molecular modeling of the voltammetric oxidation at a glassy carbon electrode of the antimalarial drug primaquine and its prodrugs succinylprimaquine and maleylprimaquine. Electrochimica Acta, 2006, 51, 5103-5111.	5.2	13

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37	Oxidation of tellurium dyes induced by mercury: More insights on the naked-eye and fluorescent Hg2+ detection. Dyes and Pigments, 2019, 160, 208-216.	3.7	13
38	Electrochemical behaviour of dipyrone (metamizole) and others pyrazolones. Electrochimica Acta, 2018, 273, 358-366.	5.2	12
39	Electrochemical characterization of cefadroxil Î²-lactam antibiotic and Cu(II) complex formation. Journal of Electroanalytical Chemistry, 2019, 844, 124-131.	3.8	12
40	Mechanism of interaction of in situ produced nitroimidazole reduction derivatives with DNA using electrochemical DNA biosensor. Methods in Enzymology, 1999, 300, 314-321.	1.0	11
41	New insights on the electrochemical mechanism of epinephrine on glassy carbon electrode. Journal of Electroanalytical Chemistry, 2022, 908, 116111.	3.8	11
42	Dissociation and electrooxidation of primaquine diphosphate as an approach to the study of anti-chagas prodrugs mechanism of action. Bioelectrochemistry, 2001, 53, 55-59.	4.6	10
43	Mechanism of 3,4-dihydroxybenzaldehyde electropolymerization at carbon paste electrodes: catalytic detection of NADH. Quimica Nova, 2002, 25, 741-747.	0.3	10
44	Biomimetic behavior and nanomolar detection of hydrogen peroxide on an electrochemically pre-treated hematin modified glassy carbon electrode. Sensors and Actuators B: Chemical, 2017, 250, 169-178.	7.8	10
45	Electrochemical oxidation of biological molecules at carbon paste electrodes pre-treated in guanine solutions. Journal of Pharmaceutical and Biomedical Analysis, 2003, 33, 735-744.	2.8	9
46	Electroanalysis of Cefadroxil Antibiotic at Carbon Nanotube/Gold Nanoparticle Modified Glassy Carbon Electrodes. ChemElectroChem, 2020, 7, 2151-2158.	3.4	9
47	Eletrodos modificados com DNA: uma nova alternativa em eletroanÃ¡lise. Quimica Nova, 1999, 22, 417.	0.3	8
48	The chemical interaction between the neurotransmitter dopamine and the antipsychotic drugs olanzapine and quetiapine. Journal of Electroanalytical Chemistry, 2021, 881, 114946.	3.8	8
49	Theoretical and voltammetric studies of 5-Nitro-heterocyclic derivatives with potential trypanocidal activities. Journal of the Brazilian Chemical Society, 2010, 21, 740-749.	0.6	7
50	Imunossupressor leflunomide anodic behaviour at a boron-doped diamond electrode. Journal of Electroanalytical Chemistry, 2014, 729, 61-67.	3.8	6
51	Morphological and electrochemical studies of spherical boron doped diamond electrodes. Thin Solid Films, 2006, 513, 364-368.	1.8	5
52	Mechanism of Electro-Oxidation of Metamizole Using Ciclic Voltammetry at a Glassy Carbon Electrode. ECS Transactions, 2012, 43, 251-258.	0.5	5
53	Electrochemical characterization of para- and meta-nitro substituents in aqueous media of new antichagasic pharmaceutical leaders. Electrochimica Acta, 2021, 368, 137582.	5.2	5
54	Mechanism and kinetics of olanzapine and quetiapine oxidations at glassy carbon electrode. Electrochimica Acta, 2021, 368, 137683.	5.2	5

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55	Insights toward the Electrochemical Behavior of Hematin Using a Hematin Modified Glassy Carbon Electrode. Journal of the Electrochemical Society, 2016, 163, G178-G185.	2.9	4
56	Electrochemical Behavior and Determination of Fluconazole. Journal of the Brazilian Chemical Society, 2011, 22, 767-771.	0.6	3
57	Electrochemical Characterization and Evaluation of the Analytical Potentialities of Glassy Carbon Electrodes Modified with Extracted Lignin from Black (Kraft) Liquor. ECS Transactions, 2012, 43, 119-126.	0.5	2
58	A new ferrous diflunisal complex and its effects on biopools of labile iron. Journal of Trace Elements in Medicine and Biology, 2019, 51, 65-72.	3.0	2
59	Sensing Materials: Electrochemical Applications of DNA Sensors and Biosensors. , 2023, , 445-467.		2
60	Applications of an Electrochemical DNA-Biosensor to Environmental Problems. , 1998, , 78-86.		2
61	DeterminaÃ§Ã£o de Ã¡cido acÃ©ttico em amostra de vinagre adulterada com Ã¡cido clorÃdrico - um experimento integrado de titulaÃ§Ã£o potenciomÃ©trica e condutomÃ©trica. Quimica Nova, 2010, 33, 755-758.	0.3	1
62	Procedure 29 Electrochemical sensing of DNA damage by ROS and RNS produced by redox activation of quercetin, adriamycin and nitric oxide. Comprehensive Analytical Chemistry, 2007, 49, e207-e211.	1.3	0