

Silvia Helena Pires Serrano

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Sensing Materials: Electrochemical Applications of DNA Sensors and Biosensors. , 2023, , 445-467.		2
2	New insights on the electrochemical mechanism of epinephrine on glassy carbon electrode. Journal of Electroanalytical Chemistry, 2022, 908, 116111.	3.8	11
3	Electrochemical characterization of para- and meta-nitro substituents in aqueous media of new antichagasic pharmaceutical leaders. Electrochimica Acta, 2021, 368, 137582.	5.2	5
4	The chemical interaction between the neurotransmitter dopamine and the antipsychotic drugs olanzapine and quetiapine. Journal of Electroanalytical Chemistry, 2021, 881, 114946.	3.8	8
5	Mechanism and kinetics of olanzapine and quetiapine oxidations at glassy carbon electrode. Electrochimica Acta, 2021, 368, 137683.	5.2	5
6	Dopamine oxidation at gold electrodes: mechanism and kinetics near neutral pH. Physical Chemistry Chemical Physics, 2020, 22, 607-614.	2.8	80
7	Electroanalysis of Cefadroxil Antibiotic at Carbon Nanotube/Gold Nanoparticle Modified Glassy Carbon Electrodes. ChemElectroChem, 2020, 7, 2151-2158.	3.4	9
8	Oxidation of tellurium dyes induced by mercury: More insights on the naked-eye and fluorescent Hg ²⁺ detection. Dyes and Pigments, 2019, 160, 208-216.	3.7	13
9	Electrochemical characterization of cefadroxil β -lactam antibiotic and Cu(II) complex formation. Journal of Electroanalytical Chemistry, 2019, 844, 124-131.	3.8	12
10	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
11	Electrochemical behaviour of dipyrone (metamizole) and others pyrazolones. Electrochimica Acta, 2018, 273, 358-366.	5.2	12
12	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
13	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
14	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
15	Electrochemical Oxidation of Sulfasalazine at a Glassy Carbon Electrode. Electroanalysis, 2014, 26, 924-930.	2.9	22
16	In situ evaluation of gemcitabineâ€“DNA interaction using a DNA-electrochemical biosensor. Bioelectrochemistry, 2014, 99, 40-45.	4.6	29
17	Imunosuppressor leflunomide anodic behaviour at a boron-doped diamond electrode. Journal of Electroanalytical Chemistry, 2014, 729, 61-67.	3.8	6
18	Electrochemically Active L-Cysteine Gold Modified Electrodes. Electrochimica Acta, 2014, 125, 566-572.	5.2	25

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19	Lignin-AuNp modified carbon paste electrodes – Preparation, characterization, and applications. <i>Electrochimica Acta</i> , 2013, 96, 191-198.	5.2	22
20	Mechanism of Electro-Oxidation of Metamizole Using Cyclic Voltammetry at a Glassy Carbon Electrode. <i>ECS Transactions</i> , 2012, 43, 251-258.	0.5	5
21	Electrochemical Characterization and Evaluation of the Analytical Potentialities of Glassy Carbon Electrodes Modified with Extracted Lignin from Black (Kraft) Liquor. <i>ECS Transactions</i> , 2012, 43, 119-126.	0.5	2
22	Cyclic voltammetry and computational chemistry studies on the evaluation of the redox behavior of parabens and other analogues. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 565-572.	0.6	29
23	Electrochemical Behavior and Determination of Fluconazole. <i>Journal of the Brazilian Chemical Society</i> , 2011, 22, 767-771.	0.6	3
24	Theoretical and voltammetric studies of 5-Nitro-heterocyclic derivatives with potential trypanocidal activities. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 740-749.	0.6	7
25	Amperometric detection of benzoyl peroxide in pharmaceutical preparations using carbon paste electrodes with peroxidases naturally immobilized on coconut fibers. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1143-1148.	10.1	30
26	Determinação de Ácido acético em amostra de vinagre adulterada com Ácido clorídrico - um experimento integrado de titulação potenciométrica e condutométrica. <i>Quimica Nova</i> , 2010, 33, 755-758.	0.3	1
27	Aspectos mecânicos da bioatividade e toxicidade de nitrocompostos. <i>Quimica Nova</i> , 2009, 32, 1013-1020.	0.3	42
28	Simultaneous voltammetric detection of ascorbic acid, dopamine and uric acid using a pyrolytic graphite electrode modified into dopamine solution. <i>Analytica Chimica Acta</i> , 2008, 612, 89-98.	5.4	148
29	Procedure 29 Electrochemical sensing of DNA damage by ROS and RNS produced by redox activation of quercetin, adriamycin and nitric oxide. <i>Comprehensive Analytical Chemistry</i> , 2007, 49, e207-e211.	1.3	0
30	Chapter 20 DNA-electrochemical biosensors for investigating DNA damage. <i>Comprehensive Analytical Chemistry</i> , 2007, , 413-437.	1.3	31
31	Biosensing hydrogen peroxide utilizing carbon paste electrodes containing peroxidases naturally immobilized on coconut (<i>Cocus nucifera</i> L.) fibers. <i>Analytica Chimica Acta</i> , 2007, 591, 200-207.	5.4	50
32	Voltammetric detection of the interactions between RNO_2^{\bullet} and electron acceptors in aqueous medium at highly boron doped diamond electrode (HBDDE). <i>Electrochimica Acta</i> , 2006, 51, 5080-5086.	5.2	33
33	SEM and Raman analysis of boron-doped diamond coating on spherical textured substrates. <i>Surface and Coatings Technology</i> , 2006, 200, 5973-5977.	4.8	41
34	Morphological and electrochemical studies of spherical boron doped diamond electrodes. <i>Thin Solid Films</i> , 2006, 513, 364-368.	1.8	5
35	Molecular modeling of the voltammetric oxidation at a glassy carbon electrode of the antimalarial drug primaquine and its prodrugs succinylprimaquine and maleylprimaquine. <i>Electrochimica Acta</i> , 2006, 51, 5103-5111.	5.2	13
36	Voltammetric Behavior of Nitrofurazone at Highly Boron Doped Diamond Electrode. <i>Electroanalysis</i> , 2005, 17, 269-274.	2.9	29

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37	Voltammetric behavior of nitrofurazone and its hydroxymethyl prodrug with potential anti-Chagas activity. <i>Journal of the Brazilian Chemical Society</i> , 2005, 16, 774-782.	0.6	23
38	Filmes de diamante CVD dopado com boro. Parte I. Histórico, produção e caracterização. <i>Quimica Nova</i> , 2005, 28, 317-325.	0.3	15
39	Electrochemical oxidation of biological molecules at carbon paste electrodes pre-treated in guanine solutions. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 33, 735-744.	2.8	9
40	Rhodium-Prussian Blue modified carbon paste electrode (Rh-PBMCPE) for amperometric detection of hydrogen peroxide. <i>Journal of the Brazilian Chemical Society</i> , 2003, 14, 551-555.	0.6	17
41	Mechanism of 3,4-dihydroxybenzaldehyde electropolymerization at carbon paste electrodes: catalytic detection of NADH. <i>Quimica Nova</i> , 2002, 25, 741-747.	0.3	10
42	Electrochemical evaluation of rhodium dimer-DNA interactions. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 29, 579-584.	2.8	21
43	Voltammetric behavior of benznidazole at a DNA-electrochemical biosensor. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 29, 561-568.	2.8	57
44	Dissociation and electrooxidation of primaquine diphosphate as an approach to the study of anti-chagas prodrugs mechanism of action. <i>Bioelectrochemistry</i> , 2001, 53, 55-59.	4.6	10
45	Electrochemical Oxidation of 8-Oxoguanine. <i>Electroanalysis</i> , 2000, 12, 969-973.	2.9	140
46	Voltammetric Behaviour of Metronidazole at Mercury Electrodes. <i>Journal of the Brazilian Chemical Society</i> , 1999, 10, 127.	0.6	44
47	Electrochemistry of DNA. <i>Comprehensive Chemical Kinetics</i> , 1999, 37, 91-119.	2.3	22
48	An EIS study of DNA-modified electrodes. <i>Electrochimica Acta</i> , 1999, 44, 4233-4239.	5.2	52
49	Electrochemical oxidation of NADH at a bare glassy carbon electrode in different supporting electrolytes. <i>Analytica Chimica Acta</i> , 1999, 385, 345-352.	5.4	15
50	Electrochemical oxidation of mitoxantrone at a glassy carbon electrode. <i>Analytica Chimica Acta</i> , 1999, 385, 401-408.	5.4	38
51	Mechanism of interaction of in situ produced nitroimidazole reduction derivatives with DNA using electrochemical DNA biosensor. <i>Methods in Enzymology</i> , 1999, 300, 314-321.	1.0	11
52	Eletrodos modificados com DNA: uma nova alternativa em eletroanálise. <i>Quimica Nova</i> , 1999, 22, 417.	0.3	8
53	Flow-injection determination of catechol with a new tyrosinase/DNA biosensor Presented in part at the VII International Conference on Flow Analysis, Piracicaba, Brazil, 1997.1. <i>Analytica Chimica Acta</i> , 1998, 366, 137-145.	5.4	46
54	Study of NADH Stability Using Ultraviolet-Visible Spectrophotometric Analysis and Factorial Design. <i>Analytical Biochemistry</i> , 1998, 260, 50-55.	2.4	111

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55	Voltammetric behaviour of mitoxantrone at a DNA-biosensor. <i>Biosensors and Bioelectronics</i> , 1998, 13, 861-867.	10.1	113
56	Applications of an Electrochemical DNA-Biosensor to Environmental Problems. , 1998, , 78-86.		2
57	Electrochemical reduction of metronidazole at a DNA-modified glassy carbon electrode. <i>Bioelectrochemistry</i> , 1997, 42, 175-178.	1.0	53
58	Comparison of the voltammetric behavior of metronidazole at a DNA-modified glassy carbon electrode, a mercury thin film electrode and a glassy carbon electrode. <i>Electroanalysis</i> , 1997, 9, 110-114.	2.9	72
59	Voltammetric behavior of nitroimidazoles at a DNA-biosensor. <i>Electroanalysis</i> , 1997, 9, 1132-1137.	2.9	68
60	Electrochemical determination of carboplatin in serum using a DNA-modified glassy carbon electrode. <i>Electroanalysis</i> , 1996, 8, 992-995.	2.9	103
61	The Electrochemical Oxidation of DNA. <i>Journal of the Brazilian Chemical Society</i> , 1995, 6, 97-100.	0.6	35
62	On the adsorption and electrochemical oxidation of DNA at glassy carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1994, 366, 225-231.	3.8	153