

Almir Spinelli

List of Publications by Year in descending order

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85
papers

4,179
citations

126708

33
h-index

114278

63
g-index

85
all docs

85
docs citations

85
times ranked

4310
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the inhibitor effect of l-ascorbic acid on the corrosion of mild steel. <i>Materials Chemistry and Physics</i> , 2004, 83, 129-134.	2.0	776
2	Caffeic acid as a green corrosion inhibitor for mild steel. <i>Corrosion Science</i> , 2009, 51, 642-649.	3.0	521
3	Electrochemical oxidation of quercetin in hydro-alcoholic solution. <i>Journal of the Brazilian Chemical Society</i> , 2006, 17, 139-148.	0.6	118
4	Antioxidant capacity of phenolic and related compounds: correlation among electrochemical, visible spectroscopy methods and structure-antioxidant activity. <i>Redox Report</i> , 2001, 6, 243-250.	1.4	114
5	Electroanalytical determination of sulfadiazine and sulfamethoxazole in pharmaceuticals using a boron-doped diamond electrode. <i>Sensors and Actuators B: Chemical</i> , 2008, 135, 66-73.	4.0	114
6	Electrochemistry of Caffeic Acid Aqueous Solutions with pH 2.0 to 8.5. <i>Journal of the Brazilian Chemical Society</i> , 2002, 13, 332-338.	0.6	96
7	Electrochemical sensor based on bismuth-film electrode for voltammetric studies on vitamin B2 (riboflavin). <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 423-430.	4.0	94
8	Adsorption behavior of caffeine as a green corrosion inhibitor for copper. <i>Materials Science and Engineering C</i> , 2012, 32, 2436-2444.	3.8	85
9	Magnetite-platinum nanoparticles-modified glassy carbon electrode as electrochemical detector for nitrophenol isomers. <i>Journal of Hazardous Materials</i> , 2017, 330, 105-115.	6.5	82
10	An original ferrocene oxide and gold nanoparticles-modified glassy carbon electrode for the determination of bisphenol A. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 487-496.	4.0	80
11	Biosensor based on laccase immobilized on microspheres of chitosan crosslinked with tripolyphosphate. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 202-207.	4.0	75
12	Biosensor based on laccase and an ionic liquid for determination of rosmarinic acid in plant extracts. <i>Talanta</i> , 2009, 77, 1322-1327.	2.9	74
13	Chitosan coatings crosslinked with genipin for corrosion protection of AZ31 magnesium alloy sheets. <i>Carbohydrate Polymers</i> , 2018, 181, 71-77.	5.1	72
14	Effect of deposition temperature on microstructure and corrosion resistance of ZrN thin films deposited by DC reactive magnetron sputtering. <i>Materials Chemistry and Physics</i> , 2011, 130, 147-153.	2.0	68
15	Chitosan-stabilized silver nanoparticles for voltammetric detection of nitrocompounds. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 39-45.	4.0	67
16	Application of bismuth-film electrode for cathodic electroanalytical determination of sulfadiazine. <i>Electrochimica Acta</i> , 2010, 55, 4970-4975.	2.6	65
17	Application of <i>Hymenaea stigonocarpa</i> fruit shell extract as eco-friendly corrosion inhibitor for steel in sulfuric acid. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 116, 215-222.	2.7	65
18	Gold nanoparticles hosted in a water-soluble silsesquioxane polymer applied as a catalytic material onto an electrochemical sensor for detection of nitrophenol isomers. <i>Journal of Hazardous Materials</i> , 2014, 273, 70-77.	6.5	61

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19	Rutin determination in pharmaceutical formulations using a carbon paste electrode modified with poly(vinylpyrrolidone). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 47, 973-977.	1.4	57
20	Antioxidant activity of phenolic and related compounds: a density functional theory study on the Oâ€H bond dissociation enthalpy. <i>Redox Report</i> , 2004, 9, 263-269.	1.4	56
21	Electroanalytical determination of estriol hormone using a boron-doped diamond electrode. <i>Talanta</i> , 2010, 80, 1999-2006.	2.9	55
22	Electrochemical behavior of progesterone at an ex situ bismuth film electrode. <i>Electrochimica Acta</i> , 2013, 107, 542-548.	2.6	52
23	A novel organic-inorganic PMMA/polysilazane hybrid polymer for corrosion protection. <i>Progress in Organic Coatings</i> , 2015, 89, 220-230.	1.9	51
24	Epoxy coating based on montmorillonite-polypyrrole: Electrical properties and prospective application on corrosion protection of steel. <i>Progress in Organic Coatings</i> , 2018, 114, 201-207.	1.9	51
25	Inhibitor effect of succinic acid on the corrosion resistance of mild steel: electrochemical, gravimetric and optical microscopic studies. <i>Materials Chemistry and Physics</i> , 2004, 83, 124-128.	2.0	49
26	Sulfadiazine determination in pharmaceuticals by electrochemical reduction on a glassy carbon electrode. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 813-820.	0.6	49
27	Reduced graphene oxide/gold nanoparticles nanocomposite-modified glassy carbon electrode for determination of endocrine disruptor methylparaben. <i>Journal of Electroanalytical Chemistry</i> , 2018, 813, 163-170.	1.9	45
28	Microstructure and corrosion behaviour of pulsed plasma-nitrided AISI H13 tool steel. <i>Corrosion Science</i> , 2010, 52, 3133-3139.	3.0	44
29	Analytical electrochemistry of vitamin B12 on a bismuth-film electrode surface. <i>Electrochimica Acta</i> , 2012, 83, 125-132.	2.6	43
30	Conversion coating on magnesium alloy sheet (AZ31) by vanillic acid treatment: Preparation, characterization and corrosion behavior. <i>Journal of Alloys and Compounds</i> , 2018, 738, 224-232.	2.8	40
31	Syzygium cumini leaf extract as an eco-friendly corrosion inhibitor for carbon steel in acidic medium. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 129, 342-349.	2.7	38
32	A label-free electrochemical immunosensor based on an ionic organic molecule and chitosan-stabilized gold nanoparticles for the detection of cardiac troponin T. <i>Analyst</i> , The, 2014, 139, 5200-5208.	1.7	36
33	Biosensors based on bean sprout homogenate immobilized in chitosan microspheres and silica for determination of chlorogenic acid. <i>Enzyme and Microbial Technology</i> , 2008, 43, 381-387.	1.6	35
34	In situ bismuth-film electrode for square-wave anodic stripping voltammetric determination of tin in biodiesel. <i>Electrochimica Acta</i> , 2011, 56, 4678-4684.	2.6	34
35	Corrosion and nanomechanical properties of vanadium carbide thin film coatings of tool steel. <i>Surface and Coatings Technology</i> , 2012, 206, 2725-2731.	2.2	34
36	A carbon paste electrode improved with poly(ethylene glycol) for tannic acid surveillance in beer samples. <i>Food Chemistry</i> , 2020, 326, 127055.	4.2	31

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37	Electrode modified with graphene quantum dots supported in chitosan for electrochemical methods and non-linear deconvolution of spectra for spectrometric methods: approaches for simultaneous determination of triclosan and methylparaben. <i>Mikrochimica Acta</i> , 2020, 187, 250.	2.5	31
38	Development of biosensor based on ionic liquid and corn peroxidase immobilized on chemically crosslinked chitin. <i>Sensors and Actuators B: Chemical</i> , 2009, 138, 236-243.	4.0	29
39	Troponin T Immunosensor Based on Liquid Crystal and Silsesquioxane-Supported Gold Nanoparticles. <i>Bioconjugate Chemistry</i> , 2014, 25, 1638-1643.	1.8	29
40	Electro-oxidation of rutin in the presence of p-toluenesulfonic acid. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 617-624.	1.5	28
41	Silver nanoparticle-modified electrode for the determination of nitro compound-containing pesticides. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2595-2606.	1.9	28
42	Effect of electrolytic ZrO ₂ coatings on the breakdown potential of NiTi wires used as endovascular implants. <i>Materials Letters</i> , 2005, 59, 754-758.	1.3	26
43	A novel electrochemical strategy for determination of vitamin B12 by Co(I/II) redox pair monitoring with boron-doped diamond electrode. <i>Diamond and Related Materials</i> , 2020, 105, 107793.	1.8	26
44	Ionic liquid-supported magnetite nanoparticles as electrode modifier materials for estrogens sensing. <i>Scientific Reports</i> , 2020, 10, 1955.	1.6	25
45	A non-mercury electrode for the voltammetric determination of butralin in foods. <i>Food Chemistry</i> , 2021, 343, 128419.	4.2	24
46	Carbon paste electrode modified with ferrimagnetic nanoparticles for voltammetric detection of the hormone estriol. <i>Microchemical Journal</i> , 2017, 133, 22-30.	2.3	23
47	Simultaneous Electrochemical Determination of Hydroquinone and Bisphenol A using a Carbon Paste Electrode Modified with Silver Nanoparticles. <i>Electroanalysis</i> , 2018, 30, 1946-1955.	1.5	23
48	Electrochemical studies of the adsorption of propargyl alcohol on low carbon steel electrodes in H ₂ SO ₄ solutions. <i>Corrosion Science</i> , 1990, 30, 1235-1246.	3.0	22
49	Environmentally-friendly in situ plated bismuth-film electrode for the quantification of the endocrine disruptor parathion in skimmed milk. <i>Journal of Hazardous Materials</i> , 2016, 308, 157-163.	6.5	22
50	Electrodeposition of Zn and Zn-Mn alloy coatings from an electrolytic bath prepared by recovery of exhausted zinc-carbon batteries. <i>Journal of Power Sources</i> , 2012, 210, 116-121.	4.0	21
51	Voltammetric determination of 17 β -estradiol in human urine and buttermilk samples using a simple copper(II) oxide-modified carbon paste electrode. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1373-1383.	1.2	21
52	Electrochemical paper-based analytical devices containing magnetite nanoparticles for the determination of vitamins B2 and B6. <i>Microchemical Journal</i> , 2022, 179, 107588.	2.3	21
53	Electroanalytical determination of total phenolic compounds by square-wave voltammetry using a poly(vinylpyrrolidone)-modified carbon-paste electrode. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 192-197.	4.0	20
54	Electrode modified with nitrogen-doped graphene quantum dots supported in chitosan for triclocarban monitoring. <i>Microchemical Journal</i> , 2021, 167, 106297.	2.3	20

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55	Voltammetric determination of condensed tannins with a glassy carbon electrode chemically modified with gold nanoparticles stabilized in carboxymethylcellulose. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 838-847.	4.0	19
56	Molybdenum trioxide incorporated in a carbon paste as a sensitive device for bisphenol A monitoring. <i>Microchemical Journal</i> , 2020, 159, 105528.	2.3	19
57	Behavior of a Co-Cr-Mo biomaterial in simulated body fluid solutions studied by electrochemical and surface analysis techniques. <i>Journal of the Brazilian Chemical Society</i> , 2004, 15, 541-547.	0.6	19
58	Electrochemistry of vitamin E hydro-alcoholic solutions. <i>Journal of the Brazilian Chemical Society</i> , 2004, 15, 748-755.	0.6	17
59	Nanomechanical and electrochemical properties of ZrN coated NiTi shape memory alloy. <i>Surface and Coatings Technology</i> , 2012, 206, 4645-4650.	2.2	17
60	Interaction of poly(4-vinylpyridine) with copper surfaces: electrochemical, thermal and spectroscopic studies. <i>Journal of the Brazilian Chemical Society</i> , 2004, 15, 818-824.	0.6	16
61	<i>In vivo</i> human electrochemical properties of a NiTi-based alloy (Nitinol) used for minimally invasive implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 1072-1078.	2.1	16
62	In situ bismuth-film electrode for square-wave cathodic voltammetric detection of pendimethalin at nanomolar level. <i>Electrochimica Acta</i> , 2015, 168, 379-385.	2.6	15
63	The influence of the crosslinking degree on the corrosion protection properties of chitosan coatings in simulated body fluid. <i>Progress in Organic Coatings</i> , 2019, 137, 105328.	1.9	15
64	The effect of oxalic acid on the corrosion of carbon steel. <i>Anti-Corrosion Methods and Materials</i> , 2004, 51, 105-111.	0.6	14
65	Sensor-containing microspheres of chitosan crosslinked with 8-hydroxyquinoline-5-sulphonic acid for determination of Cu(II) in instant coffee. <i>Food Chemistry</i> , 2011, 126, 807-814.	4.2	13
66	Magnetite nanoparticles/chitosan-modified glassy carbon electrode for non-enzymatic detection of the endocrine disruptor parathion by cathodic square-wave voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 617-623.	1.9	13
67	Properties of potentiostatic passive films grown on iron electrodes immersed in weak alkaline phosphate solutions. <i>Anti-Corrosion Methods and Materials</i> , 2006, 53, 232-239.	0.6	11
68	Determination of Quercetin in a Pharmaceutical Sample by Square-Wave Voltammetry Using a Poly(vinylpyrrolidone)-Modified Carbon-Paste Electrode. <i>Journal of the Brazilian Chemical Society</i> , 2014, . .	0.6	11
69	Carbon paste electrode modified with Fe ₃ O ₄ nanoparticles and BMI.PF ₆ ionic liquid for determination of estrone by square-wave voltammetry. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1303-1313.	1.2	10
70	A potentiodynamic and SEM study of the behaviour of iron in pH 8.9-11.0 phosphate solutions. <i>Anti-Corrosion Methods and Materials</i> , 2004, 51, 189-199.	0.6	9
71	Ag-Au core-partial shell bimetallic nanoparticles applied in electrochemical determination of the potential endocrine disruptor oryzalin. <i>Journal of Electroanalytical Chemistry</i> , 2019, 855, 113484.	1.9	9
72	Electrochemical and microstructural studies of sintered and sintered-plasma nitrided steel containing different alloying elements. <i>Journal of Materials Science</i> , 1995, 30, 4817-4822.	1.7	8

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73	Assessment of Caffeine Adsorption onto Mild Steel Surface as an Eco-Friendly Corrosion Inhibitor. Journal of the Brazilian Chemical Society, 2013, , .	0.6	7
74	Low-Range Detection of the Phosphate Group by a Molecularly Imprinted Polymer-Modified Carbon Paste Electrode. IEEE Sensors Journal, 2015, 15, 1012-1019.	2.4	7
75	Electrochemical Behavior of Hydroquinone and Catechol at a Silsesquioxane-Modified Carbon Paste Electrode. Journal of the Brazilian Chemical Society, 2013, , .	0.6	7
76	New relations between modification degree, swelling and impedance in anticorrosion chitosan-derivative coatings on magnesium alloy AZ31. Carbohydrate Polymers, 2022, 292, 119617.	5.1	7
77	Protective effect of poly(4-Vinylpyridine) containing surface films to the corrosion of copper. Journal of the Brazilian Chemical Society, 2005, 16, 9-16.	0.6	6
78	Nonenzymatic Amperometric Sensors for Hydrogen Peroxide Based on Melanin-Capped Fe ³⁺ , Cu ²⁺ , or Ni ²⁺ -Modified Prussian Blue Nanoparticles. IEEE Sensors Journal, 2015, 15, 4749-4757.	2.4	6
79	Isomer-dependent properties of poly(vinyl pyridine)-based films grown on copper surfaces. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 215-225.	2.4	5
80	Characterization of Sintered and Sintered/Plasma-Nitrided Fe-1.5% Mo Alloy by SEM, X-Ray Diffraction and Electrochemical Techniques. Materials Research, 2002, 5, 165-172.	0.6	4
81	Microstructure and surface composition effects on the transpassivation of NiTi wires for implant purposes. Journal of the Brazilian Chemical Society, 2005, 16, .	0.6	4
82	Poly(vinylpyrrolidone)-based films grown on copper surfaces. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 2206-2214.	2.4	4
83	Desenvolvimento de metodologia analítica baseada em eletrodo de carbono vÃtreo modificado com filme de bismuto: aplicaÃ£o em Ãguas de chuva de regiÃes de Santa Catarina. Ectetica Quimica, 2011, 36, 158-181.	0.2	3
84	Electrochemical stability of magnetron-sputtered Ti films on sintered and sintered/plasma nitrided Fe-1.5% Mo alloy. Surface and Coatings Technology, 2005, 191, 206-211.	2.2	1
85	On the increase of the chemical reactivity of cp titanium and Ti6Al4V at low electrical current in a protein-rich medium. Biomedical Physics and Engineering Express, 2018, 5, 015014.	0.6	1