Devaney R Do Carmo

List of Publications by Year
in descending order

87	1,192	393982	476904
papers	citations	19 h-index	29 g-index

87	87	87	1310
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Study of an organically modified clay: Selective adsorption of heavy metal ions and voltammetric determination of mercury(II). Talanta, 2006, 68, 919-927.	2.9	87
2	Can the mechanical activation (polishing) of screen-printed electrodes enhance their electroanalytical response?. Analyst, The, 2016, 141, 2791-2799.	1.7	65
3	An electroanalytical application of 2-aminothiazole-modified silica gel after adsorption and separation of Hg(II) from heavy metals in aqueous solution. Electrochimica Acta, 2006, 52, 965-972.	2.6	56
4	Chemical Modifications of Cyclodextrin and Chitosan for Biological and Environmental Applications: Metals and Organic Pollutants Adsorption and Removal. Journal of Polymers and the Environment, 2019, 27, 1352-1366.	2.4	53
5	Forensic electrochemistry: simultaneous voltammetric detection of MDMA and its fatal counterpart â€œDr Deathâ€•(PMA). Analytical Methods, 2016, 8, 142-152.	1.3	51
6	Preparation, characterization and application of a nanostructured composite: Octakis(cyanopropyldimethylsiloxy)octasilsesquioxane. Applied Surface Science, 2007, 253, 3683-3689.	3.1	38
7	Electroanalytical detection of pindolol: comparison of unmodified and reduced graphene oxide modified screen-printed graphite electrodes. Analyst, The, 2015, 140, 1543-1550.	1.7	38
8	Electrocatalytic and voltammetric determination of sulfhydryl compounds through iron nitroprusside modified graphite paste electrode. Journal of the Brazilian Chemical Society, 2003, 14, 616-620.	0.6	34
9	Thermolysis of octa (hydridodimethylsiloxyl) octasilsesquioxane in pyridine media and subsequent toluidine blue O adsorption. Applied Surface Science, 2004, 235, 449-459.	3.1	31
10	Selective Sorption of Mercury(II) from Aqueous Solution with an Organically Modified Clay and its Electroanalytical Application. Separation Science and Technology, 2006, 41, 733-746.	1.3	30
11	Forensic electrochemistry: indirect electrochemical sensing of the components of the new psychoactive substance â€œSynthacaineâ€• Analyst, The, 2015, 140, 5536-5545.	1.7	27
12	Can solvent induced surface modifications applied to screen-printed platforms enhance their electroanalytical performance?. Analyst, The, 2016, 141, 2783-2790.	1.7	22
13	Preparation of a Clay-modified Carbon Paste Electrode Based on 2-Thiazoline-2-thiol-hexadecylammonium Sorption for Sensitive Determination of Mercury. Analytical Sciences, 2005, 21, 1309-1316.	0.8	21
14	A novel nanostructured composite formed by interaction of copper octa(3-aminopropyl)octasilsesquioxane with azide ligands: Preparation, characterization and a voltammetric application. Materials Research Bulletin, 2010, 45, 1263-1270.	2.7	21
15	Synthesis and characterization of 3-[(thiourea)-propyl]-functionalized silica gel and its application in adsorption and catalysis. New Journal of Chemistry, 2013, 37, 1933.	1.4	21
16	Voltammetric Techniques for Pesticides and Herbicides Detection- an Overview. International Journal of Electrochemical Science, 2019, 14, 3418-3433.	0.5	21
17	Estudo eletroquÃmico de Fe[Fe(CN)5NO] em eletrodo de pasta de grafite. Ecletica Quimica, 2002, 27, 197-210.	0.2	21
18	Stripping Voltammetry of Mercury(II) with a Chemically Modified Carbon Paste Electrode Containing Silica Gel Functionalized with 2,5-Dimercapto-1,3,4-thiadiazole. Electroanalysis, 2005, 17, 1540-1546.	1.5	20

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19	Preparation of a silica gel modified with 2-amino-1,3,4-thiadiazole for adsorption of metal ions and electroanalytical application. Journal of the Brazilian Chemical Society, 2006, 17, 473-481.	0.6	20
20	Voltammetric studies of titanium (IV) phosphate modified with copper hexacyanoferrate and electroanalytical determination of N-acetylcysteine. Journal of Applied Electrochemistry, 2011, 41, 787-793.	1.5	20
21	Study on determination and removal of metallic ions from aqueous and alcoholic solutions using a new POSS adsorbent. Chemical Engineering Journal, 2015, 264, 77-88.	6.6	20
22	Graphene oxideâ€based nanomaterial interaction with human breast cancer cells. Journal of Biomedical Materials Research - Part A, 2020, 108, 863-870.	2.1	20
23	Preconcentration and Determination of Mercury(II) at a Chemically Modified Electrode Containing 3-(2-Thioimidazolyl)propyl Silica Gel. Analytical Sciences, 2005, 21, 1359-1363.	0.8	19
24	Investigation about the copper adsorption on the chloropropylsilica gel surface modified with a nanostructured dendrimer DAB-Am-16: an analytical application for determination of copper in different samples. Materials Research, 2013, 16, 164-172.	0.6	17
25	Hybrid graphene oxide/DAB-Am-16 dendrimer: Preparation, characterization chemical reactivity and their electrocatalytic detection of l-Dopamine. Solid State Sciences, 2017, 71, 33-41.	1.5	17
26	Encapsulation of titanium (IV) silsesquioxane into the NH4USY zeolite: Preparation, characterization and application. Materials Research Bulletin, 2007, 42, 1811-1822.	2.7	16
27	Effect of a nanostructured dendrimer-naloxonazine complex on endogenous opioid peptides Î¼1 receptor-mediated post-ictal antinociception. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 871-880.	1.7	16
28	Silsesquioxane organofunctionalized with 4-amino-3-hydrazino-5-mercapto-1,2,4-triazole: Preparation and subsequent reaction with silver and potassium hexacyanoferrate(III) for detection of l-cysteine. Materials Science and Engineering C, 2015, 57, 24-30.	3.8	16
29	Adsorption and electropolymerization of toluidine blue on the nanostructured octakis(hydridodimethylsiloxy)octasilsesquioxane surface. Materials Research Bulletin, 2008, 43, 3286-3296.	2.7	15
30	Preparation and Voltammetric Study of a Composite Titanium Phosphate/Nickel Hexacyanoferrate and Its Application in Dipyrone Determination. International Journal of Chemistry, 2012, 4, .	0.3	15
31	Synthesis and preliminary characterization of octakis (chloropropyldimethylsiloxy) octasilsesquioxane. Materials Research, 2004, 7, 499-504.	0.6	14
32	Solid-phase extraction of metal ions from fuel ethanol with a nanostructured adsorbent. Microchemical Journal, 2013, 110, 120-126.	2.3	14
33	Solvent mixture effect in the zinc hexacyanoferrate (III) nanoparticles: Synthesis, characterization and voltammetric application. Materials Research Bulletin, 2016, 84, 370-377.	2.7	14
34	Attachment of 2,2-bipyridine onto a silica gel for application as a sequestering agent for copper, cadmium and lead ions from an aqueous medium. Polish Journal of Chemical Technology, 2011, 13, 28-33.	0.3	13
35	A Silsesquioxane Organically Modified with 4-Amino-5-(4-pyridyl)-4H-1,2,4-triazole-3-thiol: Thermal Behavior and Its Electrochemical Detection of Sulfhydryl Compounds. Journal of Nanomaterials, 2014, 2014, 1-11.	1.5	13
36	Voltammetric Behavior of Zinc Hexacyanoferrate (III) Nanoparticles and Their Application in the Detection of N-Acetylcysteine. International Journal of Electrochemical Science, 2017, 12, 7142-7153.	0.5	13

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37	Silver Hexacyanoferrate (III) on a Hybrid Graphene Oxide/PAMAM Dendrimer Surface and Application as an Electrocatalyst in the Detection of Isoniazid. Electroanalysis, 2018, 30, 1107-1116.	1.5	13
38	Electrochemical Behaviour of Copper Nitroprusside Generated in situ Onto the Graphite Paste Electrode Surface, and its Application in the Determination of N-Acethylcysteine. Portugaliae Electrochimica Acta, 2005, 23, 457-470.	0.4	13
39	Voltammetric Properties of Nickel Hexacyanoferrate (III) Obtained on the Titanium (IV) Silsesquioxane Occluded into the H-FAU Zeolite for Detection of Sulfite. Silicon, 2019, 11, 267-276.	1.8	12
40	Spectroscopic and electrochemical study of [Ru(NH3)5OH2]3+, [Ru(NH3)5Cl]2+, and [Os(NH3)5OH2]3+ immobilized on thin film of Ti(IV) oxide dispersed on the silica gel surface. Polyhedron, 2000, 19, 2277-2282.	1.0	10
41	THE CYANIDE PHOTOISOMERIZATION IN ZINC HEXACYANOFERRATE (II) SUPPORTED ON TITANIUM DIOXIDE-SILICA GEL COMPOSITE: A MATRIX EFFECT. Journal of Coordination Chemistry, 2001, 54, 455-468.	0.8	10
42	Direct Preparation and Characterization of Copper Pentacyanonitrosylferrate Nanoparticles. Journal of Nanomaterials, 2015, 2015, 1-6.	1.5	10
43	Synthesis and comparison of the activities of a catalyst supported on two silicate materials. Materials Chemistry and Physics, 2017, 191, 197-205.	2.0	10
44	A modified hybrid silsesquioxane/histidine composite for copper and zinc adsorption and it behavior in the electro-oxidation of ascorbic acid. Materials Science and Engineering C, 2020, 111, 110739.	3.8	10
45	Ferrocene adsorbed into the porous octakis(hydridodimethylsiloxy)silsesquioxane after thermolysis in tetrahydrofuran media: An applied surface for ascorbic acid determination. Materials Research Bulletin, 2012, 47, 1028-1033.	2.7	9
46	A study of bio-hybrid silsesquioxane/yeast: Biosorption and neuronal toxicity of lead. Journal of Biotechnology, 2017, 264, 43-50.	1.9	9
47	Electrocatalysis and Determination of Ascorbic Acid Through Graphite Paste Electrode Modified With Iron Nitroprusside. Portugaliae Electrochimica Acta, 2004, 22, 71-79.	0.4	9
48	Preparation and use of a Grafted Silica with Imidazole Groups for Cadmium Sorption and Subsequent Voltammetric Detection of Ascorbic Acid. Silicon, 2018, 10, 635-643.	1.8	8
49	Reactivity of a Silsesquioxane Organofunctionalized with 4-Amino-5-Phenyl-4H-[1,2,4]-Triazole-3-thiol: Complementary Characterization and an Application to Chronoamperometric Detection of L-Dopamine. Silicon, 2019, 11, 1131-1142.	1.8	8
50	Synthesis of a novel hybrid nanocomposite based on copper pentacyanonitrosylferrate and octa(aminopropyl)silsesquioxane and its behavior on l-cysteine electrooxidation. Solid State Sciences, 2019, 95, 105931.	1.5	8
51	Electrochemical Behavior of Titanium (IV) Silsesquioxane Occluded in the MCM-41 Cavity and their Application in the Electro-Oxidation of Sulphite and Dipyrone Compounds. Silicon, 2020, 12, 1111-1123.	1.8	8
52	Use of a Silsesquioxane Organically Modified with 4-amino-5-(4-pyridyl)-4H-1,2,4-triazole-3-thiol (APTT) for Adsorption of Metal Ions. International Journal of Chemistry, 2013, 5, .	0.3	7
53	A New Composite Based on Electroactive Zirconium Phosphate: Morfology, Structure and Their Behavior as a Voltammetric Sensor in the Ascorbic Acid Detection. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 1205-1218.	1.9	7
54	Electrocatalitic Detection of Hydrazine Using Chemically Modified Electrodes with Cobalt Pentacyanonitrosylferrate Adsorbed on the 3â€“Aminopropylsilica Surface. International Journal of Chemistry, 2017, 9, 12.	0.3	6

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55	Silica Gel Functionalized with 4â€Aminoâ€5â€(4pyridyl)â€4Hâ€1,2,4â€triazoleâ€3â€thiol and their Use as a Copper Sorbent and Electromediator for Voltammetric Detection of Ascorbic Acid. Electroanalysis, 2018, 30, 2660-2667.	1.5	6
56	Spectrophotometric Determination of Uranium Through Uranyl/Azide System. Analytical Letters, 1995, 28, 1897-1911.	1.0	5
57	Determination of Copper in Different Ethanolic Matrices Using a Chloropropyl Silica Gel Modified with a Nanostructured Cubic Octa(3-aminopropyl)octasilsesquioxane. Journal of Chemistry, 2013, 2013, 1-11.	0.9	5
58	A Novel Composite Obtained Through of Chemical Interaction of Zirconium (IV) Phosphated with Silver Hexacyanoferrate (III) for Voltammetric Detection of L-cysteine. International Journal of Electrochemical Science, 2016, , 7527-7539.	0.5	5
59	Modification of the graphene oxide surface with copper pentacyanonitrosylferrate nanoparticles for electro-oxidation of hydrazine. Carbon Letters, 2021, 31, 795-807.	3.3	5
60	Graphene Oxide as a Platform for Copper Pentacyanonitrosylferrate Nanoparticles and their Behavior in the Electroâ€oxidation of Nâ€Acetylcysteine. Electroanalysis, 2020, 32, 1408-1416.	1.5	5
61	Copper Hexacyanoferrate Formation on the Modified Silica Surface with DABâ€Amâ€16 Dendrimer. Macromolecular Symposia, 2011, 299-300, 206-214.	0.4	4
62	A Cerium Hexacyanoferrate (III) Nanoparticleâ€modified Carbon Paste Electrode: Voltammetric Characterization and Behavior in the Presence of Dopamine. Electroanalysis, 2020, 32, 1524-1532.	1.5	4
63	An intervalence complex on chitosan surface and its application for isoniazid detection in synthetic samples. Solid State Sciences, 2020, 104, 106204.	1.5	4
64	Voltammetric Study of the Copper Pentacyanonitrosylferrate Adsorbed on the Silica Modified with a Poly(propylene)imine Hexadecylamine Dendrimer for Determination of Nitrite. International Journal of Electrochemistry, 2012, 2012, 1-8.	2.4	3
65	Synthesis, Characterization and Thermal Properties of Silsesquioxane Organically Modified With 4,5-Diphenyl-2-Imidazolethiol. International Journal of Chemistry, 2014, 6, .	0.3	3
66	Preparation, Characterization and Voltammetric Aspects of a Silsesquioxane Organofunctionalized With Imidazole Groups and Subsequent Reaction With Silver and Potassium Hexacyanoferrate (III). International Journal of Chemistry, 2014, 6, .	0.3	3
67	Silsesquioxane Modified with PAMAM Dendrimer and a Bimetallic Complex for Electrochemical Detection of Ascorbic Acid. Electroanalysis, 2021, 33, 365-374.	1.5	3
68	SPECTROSCOPIC AND ELECTROCHEMICAL PROPERTIES OF [(CN) 5 Ru(CN)Ru(NH 3) 5] â^' ANCHORED ON THIN FILM OF Ti(IV) OXIDE DISPERSED ON THE SILICA GEL SURFACE. , 1999, , 325-332.		2
69	The use of titanium (IV) phosphate for metal removal from aqueous and alcoholic samples. SN Applied Sciences, 2019, 1, 1.	1.5	2
70	Performance of cementitious matrices incorporating concrete floor polishing sludge waste. Construction and Building Materials, 2020, 265, 120119.	3.2	2
71	Voltammetric behavior of a Chemically Modified Carbon Paste Electrode with Cadmium Nitroprusside Prepared in Different Water to Formamide Ratios. International Journal of Electrochemical Science, 2020, 15, 774-787.	0.5	2
72	Voltammetric Detection of Nitrite Throught a Chemically Modified (5-Amino-1,3,4-Thiadiazolyl-2-Thiol) Propyl Silica Gel. Silicon, 2021, 13, 221-229.	1.8	2

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73	Isoniazidâ€sensing Behavior of a Hybrid Silsesquioxane and Cobalt Pentacyanonitrosylferrateâ€based Nanocomposite. Electroanalysis, 2021, 33, 1886-1894.	1.5	2
74	A Polyhedral Oligomeric Silsesquioxane (POSS) Doped with Cerium(III) / Fe(II) and its Application as an Electrochemical Sensor for L-dopamine. Silicon, 2022, 14, 9543-9554.	1.8	2
75	Î²â€cyclodextrin PAMAM dendrimer surface doped with silver and hexacyanoferrate (III) and its applications for dopamine detection in synthetic samples. Electroanalysis, 0, , .	1.5	2
76	Voltammetric Determination Of Sulfite Using Graphite Paste Electrode Modified with Nanoparticles of Copper Pentacyanonitrosylferrate. ECS Transactions, 2012, 43, 217-224.	0.3	1
77	Preparation and Voltammetric Application of a Zr(IV) Functionalized Spongolite for the Electrocatalytic Oxidation of Hydrazine. Electrocatalysis, 2018, 9, 706-715.	1.5	1
78	A Cubic Silsesquioxane Chemically Modified with a PAMAM Dendrimer G0: an Application in Electro-Oxidation of Ascorbic Acid. Silicon, 2019, 11, 2961-2974.	1.8	1
79	A New Triazole-Thiol Compound Organofunctionalized on the Silica Gel Surface: Chemical Properties and Copper Sorption in Ethanol / Water Media. Silicon, 2020, 13, 2243.	1.8	1
80	Inorganofunctionalization of Ti(IV) and Zr(IV) on the MCM-41 Surface and its Interaction with a Mixed Valence Complex to use as Isoniazid Sensing. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 4093-4102.	1.9	1
81	Electrochemical study of o-toluidine blue impregnated in mesoporous silica channels. Journal of Sol-Gel Science and Technology, 2011, 59, 188-193.	1.1	0
82	Preparation and Characterization of A Composite Obtained through Ti (IV) and Phosphoric Acid. Materials Science Forum, 2014, 775-776, 97-101.	0.3	0
83	Preliminary Evaluation of the Silica and Others Chemical Constituents of the Lyophilized Tea of Equisetum Arvense and Application of Its Biomass Wastes for Copper Adsorption. International Journal of Chemistry, 2018, 10, 87.	0.3	0
84	A Comparative Voltammetric Study of a Chemically Modified Octa(3-Aminopropyl)Octasilsesquioxane and DAB-AM-16 Dendrimer Supported on the Silica Gel Surface for Dipyrone Detection. Silicon, 2021, 13, 799-811.	1.8	0
85	Evaluation of Nickel Neurotoxicity and High Sorption through a Hybrid Yeast / Silsesquioxane Material. Silicon, 2021, 13, 259-265.	1.8	0
86	An investigation of the mixed water/formamide solvent on the synthesis of cadmium nitroprusside particles and its behavior in the electrochemical sensing of isoniazid. Journal of Nanoparticle Research, 2021, 23, 1.	0.8	0
87	Interaction of Polyhedral Oligomeric Silsesquioxanes (POSS) Modified with a Metallocyano Complex and Their Application Use as Sensor for the Detection of Isoniazid. Journal of the Electrochemical Society, 0, , .	1.3	0