

# Devaney R Do Carmo

## List of Publications by Year in descending order

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87  
papers

1,192  
citations

393982

19  
h-index

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29  
g-index

87  
all docs

87  
docs citations

87  
times ranked

1310  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | 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         |
| 2  | Modification of the graphene oxide surface with copper pentacyanonitrosylferrate nanoparticles for electro-oxidation of hydrazine. Carbon Letters, 2021, 31, 795-807.   | 3.3 | 5         |
| 3  | 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         |
| 4  | Evaluation of Nickel Neurotoxicity and High Sorption through a Hybrid Yeast / Silsesquioxane Material. Silicon, 2021, 13, 259-265.  | 1.8 | 0         |
| 5  | Voltammetric Detection of Nitrite Through a Chemically Modified (5-Amino-1,3,4-Thiadiazolyl-2-Thiol) Propyl Silica Gel. Silicon, 2021, 13, 221-229.   | 1.8 | 2         |
| 6  | Silsesquioxane Modified with PAMAM Dendrimer and a Bimetallic Complex for Electrochemical Detection of Ascorbic Acid. Electroanalysis, 2021, 33, 365-374.   | 1.5 | 3         |
| 7  | 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         |
| 8  | Isoniazidâ€sensing Behavior of a Hybrid Silsesquioxane and Cobalt Pentacyanonitrosylferrateâ€based Nanocomposite. Electroanalysis, 2021, 33, 1886-1894.   | 1.5 | 2         |
| 9  | 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         |
| 10 | 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         |
| 11 | Graphene oxideâ€based nanomaterial interaction with human breast cancer cells. Journal of Biomedical Materials Research - Part A, 2020, 108, 863-870.   | 2.1 | 20        |
| 12 | 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         |
| 13 | Performance of cementitious matrices incorporating concrete floor polishing sludge waste. Construction and Building Materials, 2020, 265, 120119.   | 3.2 | 2         |
| 14 | 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         |
| 15 | 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         |
| 16 | A modified hybrid silsesquioxane/histidine composite for copper and zinc adsorption and its behavior in the electro-oxidation of ascorbic acid. Materials Science and Engineering C, 2020, 111, 110739.                                 | 3.8 | 10        |
| 17 | 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         |
| 18 | An intervalence complex on chitosan surface and its application for isoniazid detection in synthetic samples. Solid State Sciences, 2020, 104, 106204.  | 1.5 | 4         |

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|----|--|-----|-----------|
| 19 | Voltammetric Properties of Nickel Hexacyanoferrate (III) Obtained on the Titanium (IV) Silsesquioxane Occluded into the H-FAU Zeolite for Detection of Sulfite. <i>Silicon</i> , 2019, 11, 267-276.  | 1.8 | 12        |
| 20 | 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. <i>Silicon</i> , 2019, 11, 1131-1142.              | 1.8 | 8         |
| 21 | A Cubic Silsesquioxane Chemically Modified with a PAMAM Dendrimer G0: an Application in Electro-Oxidation of Ascorbic Acid. <i>Silicon</i> , 2019, 11, 2961-2974.  | 1.8 | 1         |
| 22 | Synthesis of a novel hybrid nanocomposite based on copper pentacyanonitrosylferrate and octa(aminopropyl)silsesquioxane and its behavior on l-cysteine electrooxidation. <i>Solid State Sciences</i> , 2019, 95, 105931.                                   | 1.5 | 8         |
| 23 | The use of titanium (IV) phosphate for metal removal from aqueous and alcoholic samples. <i>SN Applied Sciences</i> , 2019, 1, 1.  | 1.5 | 2         |
| 24 | A New Composite Based on Electroactive Zirconium Phosphate: Morphology, Structure and Their Behavior as a Voltammetric Sensor in the Ascorbic Acid Detection. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 1205-1218. | 1.9 | 7         |
| 25 | Voltammetric Techniques for Pesticides and Herbicides Detection- an Overview. <i>International Journal of Electrochemical Science</i> , 2019, 14, 3418-3433.   | 0.5 | 21        |
| 26 | Chemical Modifications of Cyclodextrin and Chitosan for Biological and Environmental Applications: Metals and Organic Pollutants Adsorption and Removal. <i>Journal of Polymers and the Environment</i> , 2019, 27, 1352-1366.                             | 2.4 | 53        |
| 27 | Silver Hexacyanoferrate (III) on a Hybrid Graphene Oxide/PAMAM Dendrimer Surface and Application as an Electrocatalyst in the Detection of Isoniazid. <i>Electroanalysis</i> , 2018, 30, 1107-1116.  | 1.5 | 13        |
| 28 | Preparation and use of a Grafted Silica with Imidazole Groups for Cadmium Sorption and Subsequent Voltammetric Detection of Ascorbic Acid. <i>Silicon</i> , 2018, 10, 635-643.   | 1.8 | 8         |
| 29 | Silica Gel Functionalized with 4-(4-pyridyl)-1,2,4-triazole-3-thiol and their Use as a Copper Sorbent and Electromediator for Voltammetric Detection of Ascorbic Acid. <i>Electroanalysis</i> , 2018, 30, 2660-2667.                                       | 1.5 | 6         |
| 30 | Preparation and Voltammetric Application of a Zr(IV) Functionalized Spongolite for the Electrocatalytic Oxidation of Hydrazine. <i>Electrocatalysis</i> , 2018, 9, 706-715.  | 1.5 | 1         |
| 31 | Preliminary Evaluation of the Silica and Others Chemical Constituents of the Lyophilized Tea of <i>Equisetum Arvense</i> and Application of Its Biomass Wastes for Copper Adsorption. <i>International Journal of Chemistry</i> , 2018, 10, 87.            | 0.3 | 0         |
| 32 | Synthesis and comparison of the activities of a catalyst supported on two silicate materials. <i>Materials Chemistry and Physics</i> , 2017, 191, 197-205.   | 2.0 | 10        |
| 33 | A study of bio-hybrid silsesquioxane/yeast: Biosorption and neuronal toxicity of lead. <i>Journal of Biotechnology</i> , 2017, 264, 43-50.   | 1.9 | 9         |
| 34 | Hybrid graphene oxide/DAB-Am-16 dendrimer: Preparation, characterization chemical reactivity and their electrocatalytic detection of l-Dopamine. <i>Solid State Sciences</i> , 2017, 71, 33-41.  | 1.5 | 17        |
| 35 | Voltammetric Behavior of Zinc Hexacyanoferrate (III) Nanoparticles and Their Application in the Detection of N-Acetylcysteine. <i>International Journal of Electrochemical Science</i> , 2017, 12, 7142-7153.  | 0.5 | 13        |
| 36 | Electrocatalytic Detection of Hydrazine Using Chemically Modified Electrodes with Cobalt Pentacyanonitrosylferrate Adsorbed on the 3-aminopropylsilica Surface. <i>International Journal of Chemistry</i> , 2017, 9, 12.                                   | 0.3 | 6         |

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|----|--|-----|-----------|
| 37 | A Novel Composite Obtained Through of Chemical Interaction of Zirconium (IV) Phosphated with Silver Hexacyanoferrate (III) for Voltammetric Detection of L-cysteine. <i>International Journal of Electrochemical Science</i> , 2016, , 7527-7539.                      | 0.5 | 5         |
| 38 | Solvent mixture effect in the zinc hexacyanoferrate (III) nanoparticles: Synthesis, characterization and voltammetric application. <i>Materials Research Bulletin</i> , 2016, 84, 370-377.   | 2.7 | 14        |
| 39 | Forensic electrochemistry: simultaneous voltammetric detection of MDMA and its fatal counterpart "Dr Death"(PMA). <i>Analytical Methods</i> , 2016, 8, 142-152.  | 1.3 | 51        |
| 40 | Can solvent induced surface modifications applied to screen-printed platforms enhance their electroanalytical performance?. <i>Analyst, The</i> , 2016, 141, 2783-2790.  | 1.7 | 22        |
| 41 | Can the mechanical activation (polishing) of screen-printed electrodes enhance their electroanalytical response?. <i>Analyst, The</i> , 2016, 141, 2791-2799.  | 1.7 | 65        |
| 42 | Direct Preparation and Characterization of Copper Pentacyanonitrosylferrate Nanoparticles. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-6.  | 1.5 | 10        |
| 43 | Electroanalytical detection of pindolol: comparison of unmodified and reduced graphene oxide modified screen-printed graphite electrodes. <i>Analyst, The</i> , 2015, 140, 1543-1550.  | 1.7 | 38        |
| 44 | Forensic electrochemistry: indirect electrochemical sensing of the components of the new psychoactive substance "Synthacaine" <i>Analyst, The</i> , 2015, 140, 5536-5545.  | 1.7 | 27        |
| 45 | 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. <i>Materials Science and Engineering C</i> , 2015, 57, 24-30. | 3.8 | 16        |
| 46 | Study on determination and removal of metallic ions from aqueous and alcoholic solutions using a new POSS adsorbent. <i>Chemical Engineering Journal</i> , 2015, 264, 77-88.   | 6.6 | 20        |
| 47 | Synthesis, Characterization and Thermal Properties of Silsesquioxane Organically Modified With 4,5-Diphenyl-2-Imidazoethiol. <i>International Journal of Chemistry</i> , 2014, 6, .  | 0.3 | 3         |
| 48 | Preparation, Characterization and Voltammetric Aspects of a Silsesquioxane Organofunctionalized With Imidazole Groups and Subsequent Reaction With Silver and Potassium Hexacyanoferrate (III). <i>International Journal of Chemistry</i> , 2014, 6, .                 | 0.3 | 3         |
| 49 | A Silsesquioxane Organically Modified with 4-Amino-5-(4-pyridyl)-4 <i>H</i> -1,2,4-triazole-3-thiol: Thermal Behavior and Its Electrochemical Detection of Sulfhydryl Compounds. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-11.                                   | 1.5 | 13        |
| 50 | Preparation and Characterization of A Composite Obtained through Ti (IV) and Phosphoric Acid. <i>Materials Science Forum</i> , 2014, 775-776, 97-101.  | 0.3 | 0         |
| 51 | Solid-phase extraction of metal ions from fuel ethanol with a nanostructured adsorbent. <i>Microchemical Journal</i> , 2013, 110, 120-126.   | 2.3 | 14        |
| 52 | Synthesis and characterization of 3-[(thiourea)-propyl]-functionalized silica gel and its application in adsorption and catalysis. <i>New Journal of Chemistry</i> , 2013, 37, 1933.   | 1.4 | 21        |
| 53 | Determination of Copper in Different Ethanolic Matrices Using a Chloropropyl Silica Gel Modified with a Nanostructured Cubic Octa(3-aminopropyl)octasilsesquioxane. <i>Journal of Chemistry</i> , 2013, 2013, 1-11.  | 0.9 | 5         |
| 54 | 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. <i>Materials Research</i> , 2013, 16, 164-172.         | 0.6 | 17        |

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|----|--|-----|-----------|
| 55 | 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         |
| 56 | Voltammetric Determination Of Sulfite Using Graphite Paste Electrode Modified with Nanoparticles of Copper Pentacyanonitrosylferrate. ECS Transactions, 2012, 43, 217-224.   | 0.3 | 1         |
| 57 | 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         |
| 58 | 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        |
| 59 | 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         |
| 60 | Effect of a nanostructured dendrimer-naloxonazine complex on endogenous opioid peptides $\mu$ 1 receptor-mediated post-ictal antinociception. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 871-880.                       | 1.7 | 16        |
| 61 | 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        |
| 62 | 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         |
| 63 | Copper Hexacyanoferrate Formation on the Modified Silica Surface with DABAm $\epsilon$ 16 Dendrimer. Macromolecular Symposia, 2011, 299-300, 206-214.  | 0.4 | 4         |
| 64 | 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        |
| 65 | 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        |
| 66 | Adsorption and electropolymerization of toluidine blue on the nanostructured octakis(hydridodimethylsiloxy)octasilsesquioxane surface. Materials Research Bulletin, 2008, 43, 3286-3296.   | 2.7 | 15        |
| 67 | Preparation, characterization and application of a nanostructured composite: Octakis(cyanopropyl)dimethylsiloxy)octasilsesquioxane. Applied Surface Science, 2007, 253, 3683-3689.   | 3.1 | 38        |
| 68 | Encapsulation of titanium (IV) silsesquioxane into the NH <sub>4</sub> USY zeolite: Preparation, characterization and application. Materials Research Bulletin, 2007, 42, 1811-1822.   | 2.7 | 16        |
| 69 | 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        |
| 70 | 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        |
| 71 | 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        |
| 72 | 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        |

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|----|---|-----|-----------|
| 73 | Preparation of a Clay-modified Carbon Paste Electrode Based on 2-Thiazoline-2-thiol-hexadecylammonium Sorption for Sensitive Determination of Mercury. <i>Analytical Sciences</i> , 2005, 21, 1309-1316.                                  | 0.8 | 21        |
| 74 | Preconcentration and Determination of Mercury(II) at a Chemically Modified Electrode Containing 3-(2-Thioimidazolyl)propyl Silica Gel. <i>Analytical Sciences</i> , 2005, 21, 1359-1363.  | 0.8 | 19        |
| 75 | Stripping Voltammetry of Mercury(II) with a Chemically Modified Carbon Paste Electrode Containing Silica Gel Functionalized with 2,5-Dimercapto-1,3,4-thiadiazole. <i>Electroanalysis</i> , 2005, 17, 1540-1546.                          | 1.5 | 20        |
| 76 | Electrochemical Behaviour of Copper Nitroprusside Generated in situ Onto the Graphite Paste Electrode Surface, and its Application in the Determination of N-Acethylcysteine. <i>Portugaliae Electrochimica Acta</i> , 2005, 23, 457-470. | 0.4 | 13        |
| 77 | Thermolysis of octa (hydridodimethylsiloxyl) octasilsesquioxane in pyridine media and subsequent toluidine blue O adsorption. <i>Applied Surface Science</i> , 2004, 235, 449-459.  | 3.1 | 31        |
| 78 | Synthesis and preliminary characterization of octakis (chloropropyldimethylsiloxy) octasilsesquioxane. <i>Materials Research</i> , 2004, 7, 499-504.  | 0.6 | 14        |
| 79 | Electrocatalysis and Determination of Ascorbic Acid Through Graphite Paste Electrode Modified With Iron Nitroprusside. <i>Portugaliae Electrochimica Acta</i> , 2004, 22, 71-79.  | 0.4 | 9         |
| 80 | Electrocatalytic and voltammetric determination of sulfhydryl compounds through iron nitroprusside modified graphite paste electrode. <i>Journal of the Brazilian Chemical Society</i> , 2003, 14, 616-620.                               | 0.6 | 34        |
| 81 | Estudo eletroquímico de Fe[Fe(CN)5NO] em eletrodo de pasta de grafite. <i>Ecletica Quimica</i> , 2002, 27, 197-210.   | 0.2 | 21        |
| 82 | THE CYANIDE PHOTOISOMERIZATION IN ZINC HEXACYANOFERRATE (II) SUPPORTED ON TITANIUM DIOXIDE-SILICA GEL COMPOSITE: A MATRIX EFFECT. <i>Journal of Coordination Chemistry</i> , 2001, 54, 455-468.   | 0.8 | 10        |
| 83 | 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. <i>Polyhedron</i> , 2000, 19, 2277-2282.                    | 1.0 | 10        |
| 84 | SPECTROSCOPIC AND ELECTROCHEMICAL PROPERTIES OF [(CN)5Ru(CN)Ru(NH3)5]n+ ANCHORED ON THIN FILM OF Ti(IV) OXIDE DISPERSED ON THE SILICA GEL SURFACE. , 1999, , 325-332.   |     | 2         |
| 85 | Spectrophotometric Determination of Uranium Through Uranyl/Azide System. <i>Analytical Letters</i> , 1995, 28, 1897-1911.   | 1.0 | 5         |
| 86 | Interaction of Polyhedral Oligomeric Silsesquioxanes (POSS) Modified with a Metallocyano Complex and Their Application Use as Sensor for the Detection of Isoniazid. <i>Journal of the Electrochemical Society</i> , 0, , .               | 1.3 | 0         |
| 87 | β-cyclodextrin PAMAM dendrimer surface doped with silver and hexacyanoferrate (III) and its applications for dopamine detection in synthetic samples. <i>Electroanalysis</i> , 0, , .   | 1.5 | 2         |