# Leliz T Arenas

List of Publications by Year
in descending order

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|---|---|---|---|
| 42 papers | 972 citations | 361045 20 h-index | 454577 30 g-index |
| 42 all docs | 42 docs citations | 42 times ranked | 1289 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Tuning the oxygen vacancy population of cerium oxide (CeO2â^'x, 0 <x<0.5) nanoparticles. Applied Surface Science, 2017, 422, 1102-1112. | 3.1 | 76 |
| 2 | Use of statistical design of experiments to evaluate the sorption capacity of 1,4-diazoniabicycle[2.2.2]octane/silica chloride for Cr(VI) adsorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 297, 240-248. | 2.3 | 70 |
| 3 | Meldola blue immobilized on a new SiO2/TiO2/graphite composite for electrocatalytic oxidation of NADH. Electrochimica Acta, 2008, 53, 4167-4175. | 2.6 | 56 |
| 4 | Simultaneous electroanalytical determination of hydroquinone and catechol in the presence of resorcinol at an SiO<sub>2</sub>/C electrode spin-coated with a thin film of Nb<sub>2</sub>O<sub>5</sub>. Analyst, The, 2013, 138, 315-324. | 1.7 | 55 |
| 5 | Mesoporous Nb<sub>2</sub>O<sub>5</sub>/SiO<sub>2</sub>material obtained by solâ€“gel method and applied as adsorbent of crystal violet dye. Environmental Technology (United Kingdom), 2017, 38, 566-578. | 1.2 | 53 |
| 6 | Gold nanoparticle/charged silsesquioxane films immobilized onto Al/SiO2 surface applied on the electrooxidation of nitrite. Journal of Solid State Electrochemistry, 2012, 16, 3703-3713. | 1.2 | 41 |
| 7 | MWCNT/zirconia porous composite applied as electrochemical sensor for determination of methyl parathion. Microporous and Mesoporous Materials, 2020, 309, 110583. | 2.2 | 39 |
| 8 | In situ immobilization of nickel(II) phthalocyanine on mesoporous SiO2/C carbon ceramic matrices prepared by the solâ€“gel method: Use in the simultaneous voltammetric determination of ascorbic acid and dopamine. Electrochimica Acta, 2013, 87, 140-147. | 2.6 | 36 |
| 9 | Pore size effect in the amount of immobilized enzyme for manufacturing carbon ceramic biosensor. Microporous and Mesoporous Materials, 2017, 247, 95-102. | 2.2 | 33 |
| 10 | In situ immobilization of cobalt phthalocyanine on the mesoporous carbon ceramic SiO2/C prepared by the solâ€“gel process. Evaluation as an electrochemical sensor for oxalic acid. Electrochimica Acta, 2011, 56, 1256-1261. | 2.6 | 32 |
| 11 | Magnetic silica/titania xerogel applied as electrochemical biosensor for catechol and catecholamines. Electrochimica Acta, 2018, 264, 319-328. | 2.6 | 32 |
| 12 | Brilliant yellow dye immobilized on silica and silica/titania based hybrid xerogels containing bridged positively charged 1,4-diazoniabicyclo[2.2.2]octane: Preparation, characterization and electrochemical properties study. Microporous and Mesoporous Materials, 2008, 112, 273-283. | 2.2 | 31 |
| 13 | Mesoporous chitosan/silica hybrid material applied for development of electrochemical sensor for paracetamol in presence of dopamine. Microporous and Mesoporous Materials, 2015, 217, 109-118. | 2.2 | 30 |
| 14 | A novel electrochemical platform based on mesoporous silica/titania and gold nanoparticles for simultaneous determination of norepinephrine and dopamine. Materials Science and Engineering C, 2021, 120, 111646. | 3.8 | 29 |
| 15 | Niobium oxide dispersed on a carbonâ€“ceramic matrix, SiO2/C/Nb2O5, used as an electrochemical ascorbic acid sensor. Talanta, 2010, 83, 241-248. | 2.9 | 28 |
| 16 | Dabco/silica solâ€“gel hybrid material. The influence of the morphology on the CdCl2 adsorption capacity. Materials Letters, 2004, 58, 895-898. | 1.3 | 26 |
| 17 | Anisotropic self-organization of hybrid silica based xerogels containing bridged positively charged 1,4-diazoniabicycle[2.2.2]octane chloride group. Journal of Colloid and Interface Science, 2008, 318, 96-102. | 5.0 | 25 |
| 18 | 3-n-propyl-1-azonia-4-azabicyclo[2.2.2]octanechloride/silica hybrid polymer. A morphologic study in relation to the organic content. Polymer, 2003, 44, 5521-5525. | 1.8 | 23 |

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|---|---|---|---|
| 19 | Use of 7-amine-4-azahepthylsilica and 10-amine-4-azadecylsilica xerogels as adsorbent for Pb(II). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 316, 297-306. | 2.3 | 23 |
| 20 | 3-n-Propyl-1-azonia-4-azabicyclo[2.2.2]octanechloride Silsesquioxane: A New Water Soluble Polymer. Journal of Sol-Gel Science and Technology, 2003, 28, 51-56. | 1.1 | 22 |
| 21 | Structure and property studies of hybrid xerogels containing bridged positively charged 1,4-diazoniabicycle[2.2.2]octane dichloride. Journal of Colloid and Interface Science, 2006, 297, 244-250. | 5.0 | 19 |
| 22 | TiO2 and TiO2/SiO2 nanoparticles obtained by solâ€“gel method and applied on dye sensitized solar cells. Journal of Sol-Gel Science and Technology, 2014, 72, 273-281. | 1.1 | 19 |
| 23 | Synthesis of silica xerogels with high surface area using acetic acid as catalyst. Journal of the Brazilian Chemical Society, 2007, 18, 886-890. | 0.6 | 18 |
| 24 | Tuning Anatase-Rutile Phase Transition Temperature: TiO<sub>2</sub>/SiO<sub>2</sub> Nanoparticles Applied in Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2019, 2019, 1-9. | 1.4 | 17 |
| 25 | New promising composite materials useful in the adsorption of Cu(II) in ethanol based on cellulose and cellulose acetate. Cellulose, 2012, 19, 913-923. | 2.4 | 15 |
| 26 | Ionic silsesquioxane film immobilized on silica applied in the development of carbon paste electrode for determination of methyl parathion. Journal of Sol-Gel Science and Technology, 2014, 72, 282-289. | 1.1 | 15 |
| 27 | Mesoporous silica xerogel modified with bridged ionic silsesquioxane used to immobilize copper tetrasulfonated phthalocyanine applied to electrochemical determination of dopamine. Journal of Solid State Electrochemistry, 2015, 19, 2095-2105. | 1.2 | 15 |
| 28 | High performance biocatalyst based on Î²-d-galactosidase immobilized on mesoporous silica/titania/chitosan material. Food Chemistry, 2021, 359, 129890. | 4.2 | 15 |
| 29 | Influence of ball milling on textural and morphological properties of TiO2 and TiO2/SiO2 xerogel powders applied in photoanodes for solar cells. Journal of Solid State Electrochemistry, 2016, 20, 1731-1741. | 1.2 | 13 |
| 30 | Strategy to control the amount of titania dispersed on SBA-15 surface preserving its porosity, aiming to develop a sensor for electrochemical evaluation of antibiotics. Microporous and Mesoporous Materials, 2019, 287, 203-210. | 2.2 | 13 |
| 31 | Chitosan-stabilized gold nanoparticles supported on silica/titania magnetic xerogel applied as antibacterial system. Journal of Sol-Gel Science and Technology, 2019, 89, 333-342. | 1.1 | 10 |
| 32 | The role silica pore structure plays in the performance of modified carbon paste electrodes. Ionics, 2019, 25, 3259-3268. | 1.2 | 10 |
| 33 | AgNPâ€decorated SBAâ€15 for MWCNT Paste Modified Electrode: A Sensor for Simultaneous Voltammetric Determination of Paracetamol and Sulfamethoxazole. Electroanalysis, 2021, 33, 29-37. | 1.5 | 10 |
| 34 | Copper Porphyrin Immobilized on MCM-41 Surface by Using Aminopropyl as Coupling Agent and Its Use in Electrochemical Oxygen Determination. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2518-2524. | 1.9 | 5 |
| 35 | Synthesis and characterization of a new ceramic nanomaterial SiO2/NPsSm2O3/C-graphite for the development of electrochemical sensors. Materials Chemistry and Physics, 2020, 243, 122255. | 2.0 | 5 |
| 36 | An Electrochemical Sensor Based On Graphite Electrode Modified With Silica Containing 1-N-Propyl-3-Methylimidazolium Species For Determination Of Ascorbic Acid. Methods and Objects of Chemical Analysis, 2019, Vol. 14, No.1, 5-14. | 0.4 | 5 |

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|---|---|---|---|
| 37 | A water soluble 3-n-propyl-1-azonia-4-azabicyclo[2.2.2]octanechloride silsesquioxane grafted onto Al/SiO2 surface: chromium adsorption study. Ecletica Quimica, 2006, 31, 53-58. | 0.2 | 4 |
| 38 | Mesoporous structured silica modified with niobium oxide and cobalt hematoporphyrin applied to the simultaneous electrochemical evaluation of oxalic and uric acids. Journal of Sol-Gel Science and Technology, 0, , 1. | 1.1 | 2 |
| 39 | Silica/Titania Graphite Composite Modified with Chitosan and Tyrosinase Employed as a Sensitive Biosensor for Phenolic Compounds. Journal of the Brazilian Chemical Society, 0, , . | 0.6 | 1 |
| 40 | A METODOLOGIA DE RESOLUÃ‡ÃƒO DE PROBLEMAS: UMA EXPERIÃŠNCIA PARA O ESTUDO DAS LIGAÃ‡Ã•ES QUÃMICAS. Quimica Nova, 0, , . | 0.3 | 1 |
| 41 | Magnetic and Mesoporous Silica-Niobia Material as Modifier of Carbon Paste Electrode for p-Nitrophenol Electrochemical Determination. Journal of the Brazilian Chemical Society, 0, , . | 0.6 | 0 |
| 42 | Synthesis and evaluation of new organofunctionalized silica materials obtained by sol-gel methods applied to ethinylestradiol adsorption. Journal of Sol-Gel Science and Technology, 2022, 102, 437. | 1.1 | 0 |