# Juliano Alves Bonacin

List of Publications by Year
in descending order



| 81 | 2,205 | 186265 28 | 233421 45 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 84 | 84 | 84 | 2284 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Additive-manufactured (3D-printed) electrochemical sensors: A critical review. Analytica Chimica Acta, 2020, 1118, 73-91. | 5.4 | 265 |
| 2 | Comparison of activation processes for 3D printed PLA-graphene electrodes: electrochemical properties and application for sensing of dopamine. Analyst, The, 2020, 145, 1207-1218. | 3.5 | 113 |
| 3 | Enhanced performance of 3D printed graphene electrodes after electrochemical pre-treatment: Role of exposed graphene sheets. Sensors and Actuators B: Chemical, 2019, 281, 837-848. | 7.8 | 99 |
| 4 | Photochemical one-pot synthesis of reduced graphene oxide/Prussian blue nanocomposite for simultaneous electrochemical detection of ascorbic acid, dopamine, and uric acid. Sensors and Actuators B: Chemical, 2018, 255, 2437-2447. | 7.8 | 91 |
| 5 | 3D Printed Graphene Electrodes Modified with Prussian Blue: Emerging Electrochemical Sensing Platform for Peroxide Detection. ACS Applied Materials & Interfaces, 2019, 11, 35068-35078. | 8.0 | 89 |
| 6 | Waterproof paper as a new substrate to construct a disposable sensor for the electrochemical determination of paracetamol and melatonin. Talanta, 2020, 208, 120458. | 5.5 | 82 |
| 7 | Development of conductive inks for electrochemical sensors and biosensors. Microchemical Journal, 2021, 164, 105998. | 4.5 | 81 |
| 8 | 3D-printed reduced graphene oxide/polylactic acid electrodes: A new prototyped platform for sensing and biosensing applications. Biosensors and Bioelectronics, 2020, 170, 112684. | 10.1 | 78 |
| 9 | Rice Husk Reuse in the Preparation of SnO2/SiO2Nanocomposite. Materials Research, 2015, 18, 639-643. | 1.3 | 76 |
| 10 | Biosensing strategies for the electrochemical detection of viruses and viral diseases â€“ A review. Analytica Chimica Acta, 2021, 1159, 338384. | 5.4 | 73 |
| 11 | Electrochemical (Bio)Sensors Enabled by Fused Deposition Modeling-Based 3D Printing: A Guide to Selecting Designs, Printing Parameters, and Post-Treatment Protocols. Analytical Chemistry, 2022, 94, 6417-6429. | 6.5 | 72 |
| 12 | Production of 3D-printed disposable electrochemical sensors for glucose detection using a conductive filament modified with nickel microparticles. Analytica Chimica Acta, 2020, 1132, 1-9. | 5.4 | 58 |
| 13 | Structural and morphological investigations of Î²-cyclodextrin-coated silver nanoparticles. Colloids and Surfaces B: Biointerfaces, 2014, 118, 289-297. | 5.0 | 52 |
| 14 | Single step additive manufacturing (3D printing) of electrocatalytic anodes and cathodes for efficient water splitting. Sustainable Energy and Fuels, 2020, 4, 302-311. | 4.9 | 49 |
| 15 | Graphite Screen-Printed Electrodes Applied for the Accurate and Reagentless Sensing of pH. Analytical Chemistry, 2015, 87, 11666-11672. | 6.5 | 44 |
| 16 | Exploring the electrical wiring of screen-printed configurations utilised in electroanalysis. Analytical Methods, 2015, 7, 1208-1214. | 2.7 | 42 |
| 17 | Structure and morphology of spinel MFe2O4 (M=Fe, Co, Ni) nanoparticles chemically synthesized from heterometallic complexes. Journal of Colloid and Interface Science, 2011, 358, 39-46. | 9.4 | 40 |
| 18 | Visible-Light-Driven Epoxyacylation and Hydroacylation of Olefins Using Methylene Blue/Persulfate System in Water. Journal of Organic Chemistry, 2018, 83, 8331-8340. | 3.2 | 36 |

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|---|---|---|---|
| 19 | Sensing of L-methionine in biological samples through fully 3D-printed electrodes. Analytica Chimica Acta, 2021, 1142, 135-142. | 5.4 | 36 |
| 20 | State-of-the-art and perspectives in the use of biochar for electrochemical and electroanalytical applications. Green Chemistry, 2021, 23, 5272-5301. | 9.0 | 36 |
| 21 | Probing the binding of tetraplatinum(pyridyl)porphyrin complexes to DNA by means of surface plasmon resonance. Journal of Inorganic Biochemistry, 2009, 103, 182-189. | 3.5 | 35 |
| 22 | Use of Screenâ€printed Electrodes Modified by Prussian Blue and Analogues in Sensing of Cysteine. Electroanalysis, 2018, 30, 170-179. | 2.9 | 33 |
| 23 | 3D-Printed Low-Cost Spectroelectrochemical Cell for In Situ Raman Measurements. Analytical Chemistry, 2019, 91, 10386-10389. | 6.5 | 32 |
| 24 | Niâ^'Fe (Oxy)hydroxide Modified Graphene Additive Manufactured (3Dâ€Printed) Electrochemical Platforms as an Efficient Electrocatalyst for the Oxygen Evolution Reaction. ChemElectroChem, 2019, 6, 5633-5641. | 3.4 | 32 |
| 25 | Singlet oxygen quantum yields (Î¦d) in water using beetroot extract and an array of LEDs. Journal of the Brazilian Chemical Society, 2009, 20, 31-36. | 0.6 | 31 |
| 26 | The use of modified electrodes by hybrid systems gold nanoparticles/Mn-porphyrin in electrochemical detection of cysteine. Synthetic Metals, 2014, 198, 335-339. | 3.9 | 31 |
| 27 | Unravelling the Chemical Morphology of a Mesoporous Titanium Dioxide Interface by Confocal Raman Microscopy: New Clues for Improving the Efficiency of Dye Solar Cells and Photocatalysts. Langmuir, 2009, 25, 11269-11271. | 3.5 | 30 |
| 28 | Electrochemical water oxidation by cobalt-Prussian blue coordination polymer and theoretical studies of the electronic structure of the active species. Dalton Transactions, 2019, 48, 4811-4822. | 3.3 | 30 |
| 29 | Electrochemical synthesis of Prussian blue from iron impurities in 3D-printed graphene electrodes: Amperometric sensing platform for hydrogen peroxide. Talanta, 2020, 219, 121289. | 5.5 | 30 |
| 30 | Selective hostâ€“guest interactions on mesoporous TiO2 films modified with carboxymethyl-Î²-cyclodextrin. Surface Science, 2006, 600, 4591-4597. | 1.9 | 27 |
| 31 | Controlled Stabilization and Flocculation of Gold Nanoparticles by Means of 2-Pyrazin-2-ylethanethiol and Pentacyanidoferrate(II) Complexes. European Journal of Inorganic Chemistry, 2007, 2007, 3356-3364. | 2.0 | 27 |
| 32 | Vibrational spectra and theoretical studies of tautomerism and hydrogen bonding in the violuric acid and 6-amino-5-nitrosouracil system. Vibrational Spectroscopy, 2007, 44, 133-141. | 2.2 | 25 |
| 33 | Influence of filament aging and conductive additive in 3D printed sensors. Analytica Chimica Acta, 2022, 1191, 339228. | 5.4 | 23 |
| 34 | Electrochemical Sensor Based on Nanodiamonds and Manioc Starch for Detection of Tetracycline. Journal of Sensors, 2021, 2021, 1-10. | 1.1 | 22 |
| 35 | Hydrogen Environmental Benefits Depend on the Way of Production: An Overview of the Main Processes Production and Challenges by 2050. Advanced Energy and Sustainability Research, 2021, 2, 2100093. | 5.8 | 22 |
| 36 | Electrochemical Sensor Based on Beeswax and Carbon Black Thin Biofilms for Determination of Paraquat in Apis mellifera Honey. Food Analytical Methods, 2021, 14, 606-615. | 2.6 | 18 |

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| 37 | Prussian blue nanoparticles anchored on activated 3D printed sensor for the detection of -cysteine. Sensors and Actuators B: Chemical, 2022, 362, 131797. | 7.8 | 15 |
| 38 | Metallochlorophylls of magnesium, copper and zinc: evaluation of the influence of the first coordination sphere on their solvatochromism and aggregation properties. Journal of the Brazilian Chemical Society, 2009, 20, 1653-1658. | 0.6 | 14 |
| 39 | Synthesis and characterization of a nanocomposite NiO/SiO<sub>2</sub> from a sustainable source of SiO<sub>2</sub>. Particulate Science and Technology, 2019, 37, 911-915. | 2.1 | 14 |
| 40 | Ready-to-use 3D-printed electrochemical cell for in situ voltammetry of immobilized microparticles and Raman spectroscopy. Analytica Chimica Acta, 2021, 1141, 57-62. | 5.4 | 14 |
| 41 | Prussian Blue Films Produced by Pentacyanidoferrate(II) and Their Application as Active Electrochemical Layers. European Journal of Inorganic Chemistry, 2014, 2014, 5812-N5819. | 2.0 | 13 |
| 42 | Modulation of Electrochemical Properties of Graphene Oxide by Photochemical Reduction Using UV-Light Emitting Diodes. ChemistrySelect, 2016, 1, 1168-1175. | 1.5 | 13 |
| 43 | Electrocatalytic water oxidation reaction promoted by cobalt-Prussian blue and its thermal decomposition product under mild conditions. Dalton Transactions, 2020, 49, 16488-16497. | 3.3 | 13 |
| 44 | Ligand Effects of Penta- and Hexacyanidoferrate-Derived Water Oxidation Catalysts on BiVO<sub>4</sub> Photoanodes. ACS Applied Energy Materials, 2020, 3, 8448-8456. | 5.1 | 13 |
| 45 | Spectroscopic and electrochemical properties of iron(II) complexes of polydentate Schiff bases containing pyrazine, pyridine and imidazole groups. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 1296-1301. | 3.9 | 12 |
| 46 | Electrocatalytic reduction of oxygen by metal coordination polymers produced from pentacyanidoferrate(II) complex. Inorganica Chimica Acta, 2017, 466, 166-173. | 2.4 | 12 |
| 47 | Improvement in Efficiency of the Electrocatalytic Reduction of Hydrogen Peroxide by Prussian Blue Produced from the [Fe(CN)5(mpz)]2-Complex. European Journal of Inorganic Chemistry, 2017, 2017, 1979-1988. | 2.0 | 12 |
| 48 | On the behavior of the carboxyphenylterpyridine(8-quinolinolate) thiocyanatoruthenium(II) complex as a new black dye in TiO2 solar cells modified with carboxymethyl-beta-cyclodextrin. Inorganic Chemistry Communication, 2013, 36, 35-38. | 3.9 | 10 |
| 49 | Hydrogen Environmental Benefits Depend on the Way of Production: An Overview of the Main Processes Production and Challenges by 2050. Advanced Energy and Sustainability Research, 2021, 2, 2170025. | 5.8 | 9 |
| 50 | The Methylene Blue Self-aggregation in Water/Organic Solvent Mixtures: Relationship Between Solvatochromic Properties and Singlet Oxygen Production. Orbital, 2017, 9, . | 0.3 | 8 |
| 51 | Photophysical properties of porphyrin derivatives: Influence of the alkyl chains in homogeneous and micro-heterogeneous systems. Journal of Porphyrins and Phthalocyanines, 2015, 19, 920-933. | 0.8 | 7 |
| 52 | Hematite Nanorods Photoanodes Decorated by Cobalt Hexacyanoferrate: The Role of Mixed Oxidized States on the Enhancement of Photoelectrochemical Performance. ACS Applied Energy Materials, 2020, 3, 10097-10107. | 5.1 | 7 |
| 53 | A theoretical study of the tautomerism and vibrational spectra of 4,5-diamine-2,6-dimercaptopyrimidine. Journal of the Brazilian Chemical Society, 2008, 19, . | 0.6 | 7 |
| 54 | Preferential coordination of ruthenium complex as an electroactive self-assembled monolayer on gold substrate and its application in sensing of dopamine. Inorganic Chemistry Communication, 2019, 99, 52-59. | 3.9 | 6 |

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|---|---|---|---|
| 55 | Probing surfaceâ^'complex interactions with the bis(4-thienylterpyridine)iron(II) complex anchored on TiO<sub>2</sub> and gold nanoparticles. Canadian Journal of Chemistry, 2014, 92, 918-924. | 1.1 | 5 |
| 56 | Spectroscopic and electrochemical behavior of a supramolecular tetrapyridylporphyrin encompassing four terpyridine(oxalate)chloridoruthenium(II) complexes and its use in nitrite sensors. Inorganica Chimica Acta, 2015, 437, 127-132. | 2.4 | 5 |
| 57 | Stabilization of meso-tetraferrocenyl-porphyrin films by formation of composite with Prussian blue. Journal of Porphyrins and Phthalocyanines, 2017, 21, 10-15. | 0.8 | 5 |
| 58 | Performance of Water Oxidation by 3D Printed Electrodes Modified by Prussian Blue Analogues. Journal of the Brazilian Chemical Society, 0, , . | 0.6 | 5 |
| 59 | Is Hydrogen Indispensable for a Sustainable World? A Review of H2 Applications and Perspectives for the Next Years. Journal of the Brazilian Chemical Society, 0, , . | 0.6 | 4 |
| 60 | Electrocatalytic activity in sensing of nitrite by films produced by electropolymerization of [Fe(Br-ph-tpy)<sub>2</sub>]<sup>2+</sup>. Journal of Coordination Chemistry, 2017, 70, 1137-1145. | 2.2 | 3 |
| 61 | Use of beeswax as an alternative binder in the development of composite electrodes: an approach for determination of hydrogen peroxide in honey samples. Electrochimica Acta, 2021, 390, 138876. | 5.2 | 3 |
| 62 | Quinquangulin and Rubrofusarin: A Spectroscopy Study. Orbital, 2017, 9, . | 0.3 | 3 |
| 63 | Triangular ruthenium acetate clusters containing the bis(pyridyl)propane ligand and their inclusion chemistry with Î²-cyclodextrin. Transition Metal Chemistry, 2011, 36, 775-783. | 1.4 | 2 |
| 64 | A simple method to synthesize fluorescent modified gold nanoparticles using tryptamine as the reducing and capping agent. Synthetic Metals, 2013, 185-186, 61-65. | 3.9 | 2 |
| 65 | Analysis of solvent-accessible voids and proton-coupled electron transfer of 2,6-bis(1H-imidazol-2-yl)pyridine and its hydrochloride. Acta Crystallographica Section C, Structural Chemistry, 2019, 75, 1359-1371. | 0.5 | 2 |
| 66 | Synergistic Supramolecular Effect on the Electro-Oxidation of Biological Relevant Molecules: A Novel Sensor for Simultaneous Determination of Epinephrine and Uric Acid in Human Urine Using MWCNT and a Copper(II) Complex. Journal of the Brazilian Chemical Society, 0, , . | 0.6 | 2 |
| 67 | Development of Disposable and Flexible Supercapacitor Based on Carbonaceous and Ecofriendly Materials. Journal of Carbon Research, 2022, 8, 32. | 2.7 | 2 |
| 68 | Structural and Morphological Investigations of Î²-Cyclodextrin-Coated Silver Nanoparticles. Microscopy and Microanalysis, 2014, 20, 2114-2115. | 0.4 | 1 |
| 69 | Propolis green biofilm for the immobilization of carbon nanotubes and metallic ions: Development of redox catalysts. Journal of Electroanalytical Chemistry, 2021, 900, 115747. | 3.8 | 1 |
| 70 | Desenvolvimento de cÃ©lula para espectroeletroquÃmica Raman para estudos de mecanismo de reaÃ§Ã£o em processos de oxidaÃ§Ã£o de Ã¡gua. , 0, , . | | 1 |
| 71 | Non-innocent behavior of 1-(2â€²-pyridylazo)-2-naphtholate coordinated to polypyridine ruthenium(II) complexes. Journal of Coordination Chemistry, 2014, 67, 3311-3323. | 2.2 | 0 |
| 72 | Prussian Blue Films Produced by Pentacyanidoferrate(II) and Their Application as Active Electrochemical Layers. European Journal of Inorganic Chemistry, 2014, 2014, 5794-5794. | 2.0 | 0 |

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| 73 | Role of Protonation and Isomerism in the Supramolecular Architectures of Heteroaryl-2-imidazole Compounds: Crystal Packing Patterns and Energetics. Crystal Growth and Design, 2020, 20, 5143-5159. | 3.0 | 0 |
| 74 | ASSEMBLY OF LOW-COST LAB-MADE PHOTOREACTOR FOR PREPARATION OF NANOMATERIALS. Quimica Nova, 0, , . | 0.3 | 0 |
| 75 | Incorporation of Co-based catalysts with structures similar to those of Prussian Blue on printed electrodes for application in a water oxidation study. , 0, , . | | 0 |
| 76 | 3D Printed Electrodes: A New Platform for Studies of Water Oxidation. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 77 | Modification of conventional and 3D printed electrodes with Co3[Co(CN)6]2 catalyst for oxygen evolution reaction studies. , 0, , . | | 0 |
| 78 | Study of water oxidation and oxygen reduction reactions by prussian blue and cnalogues compounds. , 0, , . | | 0 |
| 79 | Desenvolvimento de eletrodos impressos em 3D modificados com Ni(OH)2 para estudos de oxidaÃ§Ã£o de Ã¡gua. , 0, , . | | 0 |
| 80 | Aquecimento global e soluÃ§Ã£o atravÃ©s do uso de energia limpa. , 0, , . | | 0 |
| 81 | CONSTRUÃ‡ÃƒO DE EQUIPAMENTO DE BAIXO CUSTO PARA ENROLAR FILAMENTOS DE IMPRESSORAS 3D. Quimica Nova, 0, , . | 0.3 | 0 |