

# Juliano Alves Bonacin

## List of Publications by Year in descending order

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81  
papers

2,205  
citations

186265  
28  
h-index

233421  
45  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2284  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of filament aging and conductive additive in 3D printed sensors. <i>Analytica Chimica Acta</i> , 2022, 1191, 339228.	5.4	23
2	Electrochemical (Bio)Sensors Enabled by Fused Deposition Modeling-Based 3D Printing: A Guide to Selecting Designs, Printing Parameters, and Post-Treatment Protocols. <i>Analytical Chemistry</i> , 2022, 94, 6417-6429.	6.5	72
3	Prussian blue nanoparticles anchored on activated 3D printed sensor for the detection of -cysteine. <i>Sensors and Actuators B: Chemical</i> , 2022, 362, 131797.	7.8	15
4	Development of Disposable and Flexible Supercapacitor Based on Carbonaceous and Ecofriendly Materials. <i>Journal of Carbon Research</i> , 2022, 8, 32.	2.7	2
5	Sensing of L-methionine in biological samples through fully 3D-printed electrodes. <i>Analytica Chimica Acta</i> , 2021, 1142, 135-142.	5.4	36
6	Ready-to-use 3D-printed electrochemical cell for in situ voltammetry of immobilized microparticles and Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2021, 1141, 57-62.	5.4	14
7	Electrochemical Sensor Based on Beeswax and Carbon Black Thin Biofilms for Determination of Paraquat in <i>Apis mellifera</i> Honey. <i>Food Analytical Methods</i> , 2021, 14, 606-615.	2.6	18
8	Electrochemical Sensor Based on Nanodiamonds and Manioc Starch for Detection of Tetracycline. <i>Journal of Sensors</i> , 2021, 2021, 1-10.	1.1	22
9	Development of conductive inks for electrochemical sensors and biosensors. <i>Microchemical Journal</i> , 2021, 164, 105998.	4.5	81
10	Biosensing strategies for the electrochemical detection of viruses and viral diseases – A review. <i>Analytica Chimica Acta</i> , 2021, 1159, 338384.	5.4	73
11	Hydrogen Environmental Benefits Depend on the Way of Production: An Overview of the Main Processes Production and Challenges by 2050. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100093.	5.8	22
12	Use of beeswax as an alternative binder in the development of composite electrodes: an approach for determination of hydrogen peroxide in honey samples. <i>Electrochimica Acta</i> , 2021, 390, 138876.	5.2	3
13	Propolis green biofilm for the immobilization of carbon nanotubes and metallic ions: Development of redox catalysts. <i>Journal of Electroanalytical Chemistry</i> , 2021, 900, 115747.	3.8	1
14	State-of-the-art and perspectives in the use of biochar for electrochemical and electroanalytical applications. <i>Green Chemistry</i> , 2021, 23, 5272-5301.	9.0	36
15	Hydrogen Environmental Benefits Depend on the Way of Production: An Overview of the Main Processes Production and Challenges by 2050. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2170025.	5.8	9
16	Waterproof paper as a new substrate to construct a disposable sensor for the electrochemical determination of paracetamol and melatonin. <i>Talanta</i> , 2020, 208, 120458.	5.5	82
17	Single step additive manufacturing (3D printing) of electrocatalytic anodes and cathodes for efficient water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 302-311.	4.9	49
18	Comparison of activation processes for 3D printed PLA-graphene electrodes: electrochemical properties and application for sensing of dopamine. <i>Analyst</i> , The, 2020, 145, 1207-1218.	3.5	113

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19	3D-printed reduced graphene oxide/polylactic acid electrodes: A new prototyped platform for sensing and biosensing applications. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112684.	10.1	78
20	Electrocatalytic water oxidation reaction promoted by cobalt-Prussian blue and its thermal decomposition product under mild conditions. <i>Dalton Transactions</i> , 2020, 49, 16488-16497.	3.3	13
21	Ligand Effects of Penta- and Hexacyanidoferrate-Derived Water Oxidation Catalysts on BiVO <sub>4</sub> Photoanodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 8448-8456.	5.1	13
22	Production of 3D-printed disposable electrochemical sensors for glucose detection using a conductive filament modified with nickel microparticles. <i>Analytica Chimica Acta</i> , 2020, 1132, 1-9.	5.4	58
23	Hematite Nanorods Photoanodes Decorated by Cobalt Hexacyanoferrate: The Role of Mixed Oxidized States on the Enhancement of Photoelectrochemical Performance. <i>ACS Applied Energy Materials</i> , 2020, 3, 10097-10107.	5.1	7
24	Electrochemical synthesis of Prussian blue from iron impurities in 3D-printed graphene electrodes: Amperometric sensing platform for hydrogen peroxide. <i>Talanta</i> , 2020, 219, 121289.	5.5	30
25	Role of Protonation and Isomerism in the Supramolecular Architectures of Heteroaryl-2-imidazole Compounds: Crystal Packing Patterns and Energetics. <i>Crystal Growth and Design</i> , 2020, 20, 5143-5159.	3.0	0
26	Additive-manufactured (3D-printed) electrochemical sensors: A critical review. <i>Analytica Chimica Acta</i> , 2020, 1118, 73-91.	5.4	265
27	Synthesis and characterization of a nanocomposite NiO/SiO <sub>2</sub> from a sustainable source of SiO <sub>2</sub> . <i>Particulate Science and Technology</i> , 2019, 37, 911-915.	2.1	14
28	3D-Printed Low-Cost Spectroelectrochemical Cell for In Situ Raman Measurements. <i>Analytical Chemistry</i> , 2019, 91, 10386-10389.	6.5	32
29	Analysis of solvent-accessible voids and proton-coupled electron transfer of 2,6-bis(1 <i>H</i> -imidazol-2-yl)pyridine and its hydrochloride. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 1359-1371.	0.5	2
30	3D Printed Graphene Electrodes Modified with Prussian Blue: Emerging Electrochemical Sensing Platform for Peroxide Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35068-35078.	8.0	89
31	Electrochemical water oxidation by cobalt-Prussian blue coordination polymer and theoretical studies of the electronic structure of the active species. <i>Dalton Transactions</i> , 2019, 48, 4811-4822.	3.3	30
32	Ni <sup>2+</sup> /Fe (Oxy)hydroxide Modified Graphene Additive Manufactured (3D-Printed) Electrochemical Platforms as an Efficient Electrocatalyst for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2019, 6, 5633-5641.	3.4	32
33	Preferential coordination of ruthenium complex as an electroactive self-assembled monolayer on gold substrate and its application in sensing of dopamine. <i>Inorganic Chemistry Communication</i> , 2019, 99, 52-59.	3.9	6
34	Enhanced performance of 3D printed graphene electrodes after electrochemical pre-treatment: Role of exposed graphene sheets. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 837-848.	7.8	99
35	3D Printed Electrodes: A New Platform for Studies of Water Oxidation. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
36	Photochemical one-pot synthesis of reduced graphene oxide/Prussian blue nanocomposite for simultaneous electrochemical detection of ascorbic acid, dopamine, and uric acid. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2437-2447.	7.8	91

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37	Use of Screen-Printed Electrodes Modified by Prussian Blue and Analogues in Sensing of Cysteine. <i>Electroanalysis</i> , 2018, 30, 170-179.	2.9	33
38	Visible-Light-Driven Epoxyacylation and Hydroacylation of Olefins Using Methylene Blue/Persulfate System in Water. <i>Journal of Organic Chemistry</i> , 2018, 83, 8331-8340.	3.2	36
39	Electrocatalytic activity in sensing of nitrite by films produced by electropolymerization of [Fe(Br-ph-tpy) <sub>2</sub> ] <sup>2+</sup> . <i>Journal of Coordination Chemistry</i> , 2017, 70, 1137-1145.	2.2	3
40	Electrocatalytic reduction of oxygen by metal coordination polymers produced from pentacyanidoferrate(II) complex. <i>Inorganica Chimica Acta</i> , 2017, 466, 166-173.	2.4	12
41	Improvement in Efficiency of the Electrocatalytic Reduction of Hydrogen Peroxide by Prussian Blue Produced from the [Fe(CN) <sub>5</sub> (mpz)] <sub>2</sub> -Complex. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1979-1988.	2.0	12
42	Stabilization of <i>meso</i> -tetraferrocenyl-porphyrin films by formation of composite with Prussian blue. <i>Journal of Porphyrins and Phthalocyanines</i> , 2017, 21, 10-15.	0.8	5
43	Quinquangulin and Rubrofusarin: A Spectroscopy Study. <i>Orbital</i> , 2017, 9, .	0.3	3
44	The Methylene Blue Self-aggregation in Water/Organic Solvent Mixtures: Relationship Between Solvatochromic Properties and Singlet Oxygen Production. <i>Orbital</i> , 2017, 9, .	0.3	8
45	Modulation of Electrochemical Properties of Graphene Oxide by Photochemical Reduction Using UV-Light Emitting Diodes. <i>ChemistrySelect</i> , 2016, 1, 1168-1175.	1.5	13
46	Rice Husk Reuse in the Preparation of SnO <sub>2</sub> /SiO <sub>2</sub> Nanocomposite. <i>Materials Research</i> , 2015, 18, 639-643.	1.3	76
47	Exploring the electrical wiring of screen-printed configurations utilised in electroanalysis. <i>Analytical Methods</i> , 2015, 7, 1208-1214.	2.7	42
48	Graphite Screen-Printed Electrodes Applied for the Accurate and Reagentless Sensing of pH. <i>Analytical Chemistry</i> , 2015, 87, 11666-11672.	6.5	44
49	Photophysical properties of porphyrin derivatives: Influence of the alkyl chains in homogeneous and micro-heterogeneous systems. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015, 19, 920-933.	0.8	7
50	Spectroscopic and electrochemical behavior of a supramolecular tetrapyrrolylporphyrin encompassing four terpyridine(oxalate)chloridoruthenium(II) complexes and its use in nitrite sensors. <i>Inorganica Chimica Acta</i> , 2015, 437, 127-132.	2.4	5
51	Structural and morphological investigations of $\beta$ -cyclodextrin-coated silver nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 118, 289-297.	5.0	52
52	Probing surface-complex interactions with the bis(4-thienylterpyridine)iron(II) complex anchored on TiO <sub>2</sub> and gold nanoparticles. <i>Canadian Journal of Chemistry</i> , 2014, 92, 918-924.	1.1	5
53	The use of modified electrodes by hybrid systems gold nanoparticles/Mn-porphyrin in electrochemical detection of cysteine. <i>Synthetic Metals</i> , 2014, 198, 335-339.	3.9	31
54	Non-innocent behavior of 1-(2-pyridylazo)-2-naphtholate coordinated to polypyridine ruthenium(II) complexes. <i>Journal of Coordination Chemistry</i> , 2014, 67, 3311-3323.	2.2	0

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55	Prussian Blue Films Produced by Pentacyanidoferrate(II) and Their Application as Active Electrochemical Layers. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5812-N5819.	2.0	13
56	Prussian Blue Films Produced by Pentacyanidoferrate(II) and Their Application as Active Electrochemical Layers. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5794-5794.	2.0	0
57	Structural and Morphological Investigations of $\beta$ -Cyclodextrin-Coated Silver Nanoparticles. <i>Microscopy and Microanalysis</i> , 2014, 20, 2114-2115.	0.4	1
58	On the behavior of the carboxyphenylterpyridine(8-quinolinolate) thiocyanatoruthenium(II) complex as a new black dye in TiO <sub>2</sub> solar cells modified with carboxymethyl-beta-cyclodextrin. <i>Inorganic Chemistry Communication</i> , 2013, 36, 35-38.	3.9	10
59	A simple method to synthesize fluorescent modified gold nanoparticles using tryptamine as the reducing and capping agent. <i>Synthetic Metals</i> , 2013, 185-186, 61-65.	3.9	2
60	Triangular ruthenium acetate clusters containing the bis(pyridyl)propane ligand and their inclusion chemistry with $\beta$ -cyclodextrin. <i>Transition Metal Chemistry</i> , 2011, 36, 775-783.	1.4	2
61	Structure and morphology of spinel MFe <sub>2</sub> O <sub>4</sub> (M=Fe, Co, Ni) nanoparticles chemically synthesized from heterometallic complexes. <i>Journal of Colloid and Interface Science</i> , 2011, 358, 39-46.	9.4	40
62	Singlet oxygen quantum yields ( $\phi_{\Delta}$ ) in water using beetroot extract and an array of LEDs. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, 31-36.	0.6	31
63	Metallochlorophylls of magnesium, copper and zinc: evaluation of the influence of the first coordination sphere on their solvatochromism and aggregation properties. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, 1653-1658.	0.6	14
64	Probing the binding of tetraplatinum(pyridyl)porphyrin complexes to DNA by means of surface plasmon resonance. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 182-189.	3.5	35
65	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. <i>Langmuir</i> , 2009, 25, 11269-11271.	3.5	30
66	Spectroscopic and electrochemical properties of iron(II) complexes of polydentate Schiff bases containing pyrazine, pyridine and imidazole groups. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 1296-1301.	3.9	12
67	A theoretical study of the tautomerism and vibrational spectra of 4,5-diamine-2,6-dimercaptopyrimidine. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, .	0.6	7
68	Controlled Stabilization and Flocculation of Gold Nanoparticles by Means of 2-Pyrazin-2-ylethanethiol and Pentacyanidoferrate(II) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 3356-3364.	2.0	27
69	Vibrational spectra and theoretical studies of tautomerism and hydrogen bonding in the violuric acid and 6-amino-5-nitrosouracil system. <i>Vibrational Spectroscopy</i> , 2007, 44, 133-141.	2.2	25
70	Selective host-guest interactions on mesoporous TiO <sub>2</sub> films modified with carboxymethyl- $\beta$ -cyclodextrin. <i>Surface Science</i> , 2006, 600, 4591-4597.	1.9	27
71	Performance of Water Oxidation by 3D Printed Electrodes Modified by Prussian Blue Analogues. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	5
72	ASSEMBLY OF LOW-COST LAB-MADE PHOTOREACTOR FOR PREPARATION OF NANOMATERIALS. <i>Quimica Nova</i> , 0, , .	0.3	0

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73	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
74	Desenvolvimento de célula para espectroeletrônica Raman para estudos de mecanismo de reação em processos de oxidação de água. , 0, , .		1
75	Modification of conventional and 3D printed electrodes with Co <sub>3</sub> [Co(CN) <sub>6</sub> ] <sub>2</sub> catalyst for oxygen evolution reaction studies. , 0, , .		0
76	Study of water oxidation and oxygen reduction reactions by prussian blue and analogues compounds. , 0, , .		0
77	Desenvolvimento de eletrodos impressos em 3D modificados com Ni(OH) <sub>2</sub> para estudos de oxidação de água. , 0, , .		0
78	Aquecimento global e solução através do uso de energia limpa. , 0, , .		0
79	CONSTRUÇÃO DE EQUIPAMENTO DE BAIXO CUSTO PARA ENROLAR FILAMENTOS DE IMPRESSORAS 3D. Quimica Nova, 0, , .	0.3	0
80	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
81	Is Hydrogen Indispensable for a Sustainable World? A Review of H <sub>2</sub> Applications and Perspectives for the Next Years. Journal of the Brazilian Chemical Society, 0, , .	0.6	4