

Vinicius R Gonales

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

1,209
citations

20
h-index

31
g-index

74
ext. papers

1,447
ext. citations

6.8
avg, IF

4.58
L-index

#	Paper	IF	Citations
71	Synthesis, characterization and immobilization of Prussian blue nanoparticles. A potential tool for biosensing devices. <i>Chemical Communications</i> , 2005 , 366-8	5.8	120
70	Connecting electrodes with light: one wire, many electrodes. <i>Chemical Science</i> , 2015 , 6, 6769-6776	9.4	61
69	Large-Area 23%-Efficient Monolithic Perovskite/Homojunction-Silicon Tandem Solar Cell with Enhanced UV Stability Using Down-Shifting Material. <i>ACS Energy Letters</i> , 2019 , 4, 2623-2631	20.1	57
68	Reproducible flaws unveil electrostatic aspects of semiconductor electrochemistry. <i>Nature Communications</i> , 2017 , 8, 2066	17.4	47
67	TEMPO Monolayers on Si(100) Electrodes: Electrostatic Effects by the Electrolyte and Semiconductor Space-Charge on the Electroactivity of a Persistent Radical. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9611-9	16.4	44
66	Microwave-assisted synthesis of black phosphorus quantum dots: efficient electrocatalyst for oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12974-12978	13	40
65	Cesium compounds as interface modifiers for stable and efficient perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 172-186	6.4	38
64	On the application of nanostructured electrodes prepared by Ti/TiO ₂ /WO ₃ "template": a case study of removing toxicity of indigo using visible irradiation. <i>Chemosphere</i> , 2013 , 91, 586-93	8.4	33
63	Iridium(III) homo- and heterogeneous catalysed hydrogen borrowing C-N bond formation. <i>Green Chemistry</i> , 2017 , 19, 3142-3151	10	31
62	Passivation of interstitial and vacancy mediated trap-states for efficient and stable triple-cation perovskite solar cells. <i>Journal of Power Sources</i> , 2018 , 383, 59-71	8.9	31
61	Role of fullerene electron transport layer on the morphology and optoelectronic properties of perovskite solar cells. <i>Organic Electronics</i> , 2017 , 50, 279-289	3.5	30
60	Preserving the Exposed Facets of PtSn Intermetallic Nanocubes During an Order to Disorder Transition Allows the Elucidation of the Effect of the Degree of Alloy Ordering on Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3231-3239	16.4	29
59	Hydrogen production and simultaneous photoelectrocatalytic pollutant oxidation using a TiO ₂ /WO ₃ nanostructured photoanode under visible light irradiation. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 765, 188-196	4.1	27
58	Adsorbed carbon nanomaterials for surface and interface-engineered stable rubidium multi-cation perovskite solar cells. <i>Nanoscale</i> , 2018 , 10, 773-790	7.7	27
57	Electrochemical Microscopy Based on Spatial Light Modulators: A Projection System to Spatially Address Electrochemical Reactions at Semiconductors. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H3085-H3092	3.9	26
56	Performance improvement of macroporous polypyrrole sensor for detection of ammonia by incorporation of magnetite nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2015 , 213, 444-451	8.5	24
55	Electrochemistry on Tribocharged Polymers Is Governed by the Stability of Surface Charges Rather than Charging Magnitude. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5863-5870	16.4	23

54	The corona of a surface bubble promotes electrochemical reactions. <i>Nature Communications</i> , 2020 , 11, 6323	17.4	23
53	Micro/nanostructured carbon composite modified with a hybrid redox mediator and enzymes as a glucose biosensor. <i>Carbon</i> , 2011 , 49, 3039-3047	10.4	22
52	Structure effects of self-assembled Prussian blue confined in highly organized mesoporous TiO ₂ on the electrocatalytic properties towards H ₂ O ₂ detection. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 890-3	11.8	21
51	Light-Addressable Ion Sensing for Real-Time Monitoring of Extracellular Potassium. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16801-16805	16.4	20
50	Fully conducting hydro-sponges with electro-swelling properties tuned by synthetic parameters. <i>Electrochimica Acta</i> , 2013 , 101, 216-224	6.7	19
49	A high performance and low-cost hole transporting layer for efficient and stable perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 21033-21045	3.6	17
48	Nanocrystal Inks: Photoelectrochemical Printing of Cu ₂ O Nanocrystals on Silicon with 2D Control on Polyhedral Shapes. <i>Advanced Functional Materials</i> , 2018 , 28, 1804791	15.6	17
47	Electrospun 3D composite nano-flowers for high performance triple-cation perovskite solar cells. <i>Electrochimica Acta</i> , 2018 , 289, 459-473	6.7	17
46	Three-dimensional graphene/carbon nanotubes hybrid composites for exploring interaction between glucose oxidase and carbon based electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 775, 235-242	4.1	16
45	Functionalized Silicon Electrodes in Electrochemistry. <i>Annual Review of Analytical Chemistry</i> , 2020 , 13, 135-158	12.5	15
44	Intrinsic and well-defined second generation hot spots in gold nanobipyramids versus gold nanorods. <i>Chemical Communications</i> , 2019 , 55, 7707-7710	5.8	14
43	On the Template Synthesis of Nanostructured Inorganic/Organic Hybrid Films.. <i>Journal of the Electrochemical Society</i> , 2008 , 155, K140	3.9	14
42	Simultaneous Functionalization of Carbon Surfaces with Rhodium and Iridium Organometallic Complexes: Hybrid Bimetallic Catalysts for Hydroamination. <i>Organometallics</i> , 2019 , 38, 780-787	3.8	14
41	Dual Signaling DNA Electrochemistry: An Approach To Understand DNA Interfaces. <i>Langmuir</i> , 2018 , 34, 1249-1255	4	13
40	Porous Polymeric Templates on ITO Prepared by Breath Figure Method for Gold Electrodeposition. <i>Electrochimica Acta</i> , 2015 , 158, 187-195	6.7	13
39	Nanostructured thin films obtained by electrodeposition over a colloidal crystal template: applications in electrochemical devices. <i>Journal of the Brazilian Chemical Society</i> , 2009 , 20, 663-673	1.5	13
38	Structure and properties of hydrophobic CeO ₂ coatings synthesized by reactive magnetron sputtering for biomedical applications. <i>Surface and Coatings Technology</i> , 2018 , 349, 667-676	4.4	13
37	Amorphous silicon on indium tin oxide: a transparent electrode for simultaneous light activated electrochemistry and optical microscopy. <i>Chemical Communications</i> , 2018 , 55, 123-126	5.8	12

36	Stability of Chemically Passivated Silicon Electrodes in Aqueous Solutions: Interplay between Bias Voltage and Hydration of the Electrolyte. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15941-15948	3.8	12
35	Forming Ferrocenyl Self-Assembled Monolayers on Si(100) Electrodes with Different Alkyl Chain Lengths for Electron Transfer Studies. <i>ChemElectroChem</i> , 2019 , 6, 211-220	4.3	12
34	Covalent Linkages of Molecules and Proteins to Si-H Surfaces Formed by Disulfide Reduction. <i>Langmuir</i> , 2020 , 36, 14999-15009	4	12
33	Switchable Interfaces: Redox Monolayers on Si(100) by Electrochemical Trapping of Alcohol Nucleophiles. <i>Surfaces</i> , 2018 , 1, 3-11	2.9	12
32	Light-activated electrochemistry on alkyne-terminated Si(100) surfaces towards solution-based redox probes. <i>Electrochimica Acta</i> , 2016 , 213, 540-546	6.7	11
31	In search of an appropriate ionic liquid as electrolyte for macroporous manganese oxide film electrochemistry. <i>Journal of Power Sources</i> , 2013 , 239, 1-8	8.9	10
30	Macroporous MnO ₂ electrodes obtained by template assisted electrodeposition for electrochemical capacitors. <i>Journal of the Brazilian Chemical Society</i> , 2010 , 21, 1704-1709	1.5	10
29	Heterojunctions Based on Amorphous Silicon: A Versatile Surface Engineering Strategy To Tune Peak Position of Redox Monolayers on Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 836-844	3.8	10
28	Light-activated electrochemistry without surface-bound redox species. <i>Electrochimica Acta</i> , 2017 , 251, 250-255	6.7	9
27	Platinum nanoparticle-modified electrodes, morphologic, and electrochemical studies concerning electroactive materials deposition. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 675-679	2.6	9
26	Silicon/SAM/AuNP electrodes: Electrochemical Switching and stability. <i>Electrochemistry Communications</i> , 2016 , 70, 28-32	5.1	8
25	Correlation between pore size and reactivity of macro/mesoporous iron and copper hexacyanoferrates for H ₂ O ₂ electrocatalysis. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 706, 48-54	4.1	8
24	DNA-Hybridization Detection on Si(100) Surfaces Using Light-Activated Electrochemistry: A Comparative Study between Bovine Serum Albumin and Hexaethylene Glycol as Antifouling Layers. <i>Langmuir</i> , 2018 , 34, 14817-14824	4	8
23	Realizing 11.3% efficiency in PffBT4T-2OD fullerene organic solar cells via superior charge extraction at interfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	8
22	Recent advances in the molecular level modification of electrodes for bioelectrochemistry. <i>Current Opinion in Electrochemistry</i> , 2017 , 5, 203-210	7.2	7
21	Patterned Molecular Films of Alkanethiol and PLL-PEG on Gold-Silicate Interfaces: How to Add Functionalities while Retaining Effective Antifouling. <i>Langmuir</i> , 2020 , 36, 5243-5250	4	7
20	Observing the Reversible Single Molecule Electrochemistry of Alexa Fluor 647 Dyes by Total Internal Reflection Fluorescence Microscopy. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14495-14498	16.4	7
19	The Impact of the Position of the Redox Label on Charge Transfer and Hybridization Efficiency at DNA Interfaces. <i>Electroanalysis</i> , 2018 , 30, 1529-1535	3	7

18	From a planar electrode to a random assembly of microelectrodes: A new approach based on the electrochemical reduction of 5-bromo-1,10-phenanthroline at gold electrodes. <i>Electrochemistry Communications</i> , 2014 , 38, 32-35	5.1	6
17	Ultrasensitive detection of programmed death-ligand 1 (PD-L1) in whole blood using dispersible electrodes. <i>Chemical Communications</i> , 2021 , 57, 2559-2562	5.8	6
16	Controlling hydrophilicity and electrocatalytic properties of metallic hexacyanoferrates/conducting polymers hybrids for the detection of H ₂ O ₂ . <i>Electrochimica Acta</i> , 2013 , 110, 459-464	6.7	5
15	Synthesis of gold-coated magnetic conglomerate nanoparticles with a fast magnetic response for bio-sensing. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1034-1043	7.1	5
14	Carbon supported hybrid catalysts for controlled product selectivity in the hydrosilylation of alkynes. <i>Catalysis Science and Technology</i> , 2021 , 11, 1888-1898	5.5	5
13	Role of Surface Capping Molecule Polarity on the Optical Properties of Solution Synthesized Germanium Nanocrystals. <i>Langmuir</i> , 2017 , 33, 8790-8798	4	4
12	High-resolution light-activated electrochemistry on amorphous silicon-based photoelectrodes. <i>Chemical Communications</i> , 2020 , 56, 7435-7438	5.8	4
11	Increasing the Formation of Active Sites on Highly Crystalline Co Branched Nanoparticles for Improved Oxygen Evolution Reaction Electrocatalysis. <i>ChemCatChem</i> , 2020 , 12, 3126-3131	5.2	4
10	Optimization of conjugated polymer blend concentration for high performance organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 16437-16445	2.1	4
9	Porous Graphene Oxide Films Prepared via the Breath-Figure Method: A Simple Strategy for Switching Access of Redox Species to an Electrode Surface. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55181-55188	9.5	4
8	Spatially localized electrodeposition of multiple metals via light-activated electrochemistry for surface enhanced Raman spectroscopy applications. <i>Chemical Communications</i> , 2020 , 56, 5831-5834	5.8	3
7	Controlling hydrogen evolution reaction activity on Ni core-Pt island nanoparticles by tuning the size of the Pt islands. <i>Chemical Communications</i> , 2021 , 57, 2788-2791	5.8	3
6	Morphology, microstructure and electrocatalytic properties of activated copper surfaces. <i>Journal of the Brazilian Chemical Society</i> , 2012 , 23, 120-123	1.5	2
5	Engineering regioselectivity in the hydrosilylation of alkynes using heterobimetallic dual-functional hybrid catalysts. <i>Catalysis Science and Technology</i> , 2022 , 12, 226-236	5.5	2
4	Light-Addressable Ion Sensing for Real-Time Monitoring of Extracellular Potassium. <i>Angewandte Chemie</i> , 2018 , 130, 17043-17047	3.6	2
3	Functionalized Gold Nanorod Probes: A Sophisticated Design of SERS Immunoassay for Biodetection in Complex Media. <i>Analytical Chemistry</i> , 2021 , 93, 12954-12965	7.8	2
2	Surface Patterning of Biomolecules Using Click Chemistry and Light-Activated Electrochemistry to Locally Generate Cu(I). <i>ChemElectroChem</i> , 2020 , 7, 4245-4250	4.3	0
1	Observing the Reversible Single Molecule Electrochemistry of Alexa Fluor 647 Dyes by Total Internal Reflection Fluorescence Microscopy. <i>Angewandte Chemie</i> , 2019 , 131, 14637-14640	3.6	0

