

Vinicius R Gonales

List of Publications by Year in Descending Order

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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	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
70	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
69	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
68	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
67	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
66	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
65	The corona of a surface bubble promotes electrochemical reactions. <i>Nature Communications</i> , 2020 , 11, 6323	17.4	23
64	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
63	High-resolution light-activated electrochemistry on amorphous silicon-based photoelectrodes. <i>Chemical Communications</i> , 2020 , 56, 7435-7438	5.8	4
62	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
61	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
60	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
59	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
58	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
57	Covalent Linkages of Molecules and Proteins to Si-H Surfaces Formed by Disulfide Reduction. <i>Langmuir</i> , 2020 , 36, 14999-15009	4	12
56	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
55	Functionalized Silicon Electrodes in Electrochemistry. <i>Annual Review of Analytical Chemistry</i> , 2020 , 13, 135-158	12.5	15

54	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
53	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
52	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
51	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
50	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	27
49	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
48	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
47	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
46	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
45	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
44	Dual Signaling DNA Electrochemistry: An Approach To Understand DNA Interfaces. <i>Langmuir</i> , 2018 , 34, 1249-1255	4	13
43	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
42	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
41	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
40	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
39	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
38	Light-Addressable Ion Sensing for Real-Time Monitoring of Extracellular Potassium. <i>Angewandte Chemie</i> , 2018 , 130, 17043-17047	3.6	2
37	Light-Addressable Ion Sensing for Real-Time Monitoring of Extracellular Potassium. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16801-16805	16.4	20

36	Electrospun 3D composite nano-flowers for high performance triple-cation perovskite solar cells. <i>Electrochimica Acta</i> , 2018 , 289, 459-473	6.7	17
35	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
34	Switchable Interfaces: Redox Monolayers on Si(100) by Electrochemical Trapping of Alcohol Nucleophiles. <i>Surfaces</i> , 2018 , 1, 3-11	2.9	12
33	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
32	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
31	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
30	Iridium(III) homo- and heterogeneous catalysed hydrogen borrowing C-N bond formation. <i>Green Chemistry</i> , 2017 , 19, 3142-3151	10	31
29	Role of Surface Capping Molecule Polarity on the Optical Properties of Solution Synthesized Germanium Nanocrystals. <i>Langmuir</i> , 2017 , 33, 8790-8798	4	4
28	Recent advances in the molecular level modification of electrodes for bioelectrochemistry. <i>Current Opinion in Electrochemistry</i> , 2017 , 5, 203-210	7.2	7
27	Light-activated electrochemistry without surface-bound redox species. <i>Electrochimica Acta</i> , 2017 , 251, 250-255	6.7	9
26	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
25	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
24	Reproducible flaws unveil electrostatic aspects of semiconductor electrochemistry. <i>Nature Communications</i> , 2017 , 8, 2066	17.4	47
23	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
22	Silicon-BAM-AuNP electrodes: Electrochemical Switching and stability. <i>Electrochemistry Communications</i> , 2016 , 70, 28-32	5.1	8
21	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
20	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
19	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

18	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
17	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
16	Connecting electrodes with light: one wire, many electrodes. <i>Chemical Science</i> , 2015 , 6, 6769-6776	9.4	61
15	Porous Polymeric Templates on ITO Prepared by Breath Figure Method for Gold Electrodeposition. <i>Electrochimica Acta</i> , 2015 , 158, 187-195	6.7	13
14	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
13	Fully conducting hydro-sponges with electro-swelling properties tuned by synthetic parameters. <i>Electrochimica Acta</i> , 2013 , 101, 216-224	6.7	19
12	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
11	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
10	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
9	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
8	Morphology, microstructure and electrocatalytic properties of activated copper surfaces. <i>Journal of the Brazilian Chemical Society</i> , 2012 , 23, 120-123	1.5	2
7	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
6	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
5	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
4	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
3	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
2	On the Template Synthesis of Nanostructured Inorganic/Organic Hybrid Films.. <i>Journal of the Electrochemical Society</i> , 2008 , 155, K140	3.9	14
1	Synthesis, characterization and immobilization of Prussian blue nanoparticles. A potential tool for biosensing devices. <i>Chemical Communications</i> , 2005 , 366-8	5.8	120

