

Braulio Archanjo

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99
papers

2,076
citations

23
h-index

42
g-index

104
ext. papers

2,499
ext. citations

4.9
avg, IF

4.73
L-index

#	Paper	IF	Citations
99	Copper Nanocrystals Encapsulated in Zr-based Metal-Organic Frameworks for Highly Selective CO Hydrogenation to Methanol. <i>Nano Letters</i> , 2016 , 16, 7645-7649	11.5	285
98	Biochar built soil carbon over a decade by stabilizing rhizodeposits. <i>Nature Climate Change</i> , 2017 , 7, 371-376	11.4	155
97	Structural analysis of polycrystalline graphene systems by Raman spectroscopy. <i>Carbon</i> , 2015 , 95, 646-652	11.4	122
96	Heterogeneous Catalysis by Covalent Organic Frameworks (COF): Pd(OAc) ₂ @COF-300 in Cross-Coupling Reactions. <i>ChemCatChem</i> , 2016 , 8, 743-750	5.2	92
95	Understanding growth mechanisms and tribocorrosion behaviour of porous TiO ₂ anodic films containing calcium, phosphorous and magnesium. <i>Applied Surface Science</i> , 2015 , 341, 1-12	6.7	67
94	Micro-arc oxidation as a tool to develop multifunctional calcium-rich surfaces for dental implant applications. <i>Materials Science and Engineering C</i> , 2015 , 54, 196-206	8.3	66
93	Nanoscale analyses of the surface structure and composition of biochars extracted from field trials or after co-composting using advanced analytical electron microscopy. <i>Geoderma</i> , 2017 , 294, 70-79	6.7	65
92	Deformation induced semiconductor-metal transition in single wall carbon nanotubes probed by electric force microscopy. <i>Physical Review Letters</i> , 2008 , 100, 256804	7.4	57
91	Dynamic negative compressibility of few-layer graphene, h-BN, and MoS ₂ . <i>Nano Letters</i> , 2012 , 12, 2313-2315	11.5	56
90	Tuning Localized Surface Plasmon Resonance in Scanning Near-Field Optical Microscopy Probes. <i>ACS Nano</i> , 2015 , 9, 6297-304	16.7	50
89	Linear carbon chains encapsulated in multiwall carbon nanotubes: Resonance Raman spectroscopy and transmission electron microscopy studies. <i>Carbon</i> , 2015 , 90, 172-180	10.4	46
88	Crystalline nano-coatings of fluorine-substituted hydroxyapatite produced by magnetron sputtering with high plasma confinement. <i>Surface and Coatings Technology</i> , 2015 , 264, 163-174	4.4	46
87	Selective extraction of humic acids from an anthropogenic Amazonian dark earth and from a chemically oxidized charcoal. <i>Biology and Fertility of Soils</i> , 2014 , 50, 1223-1232	6.1	45
86	Chemical analysis and molecular models for calcium-oxygen-carbon interactions in black carbon found in fertile Amazonian anthrosoils. <i>Environmental Science & Technology</i> , 2014 , 48, 7445-52	10.3	44
85	New transfer method of CVD-grown graphene using a flexible, transparent and conductive polyaniline-rubber thin film for organic electronic applications. <i>Chemical Engineering Journal</i> , 2015 , 273, 509-518	14.7	43
84	Microscopy and spectroscopy analysis of carbon nanostructures in highly fertile Amazonian anthrosoils. <i>Soil and Tillage Research</i> , 2012 , 122, 61-66	6.5	43
83	Thermo-optical properties of silver and gold nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 114, 557-564	4.1	40

82	The use of a Ga ⁺ focused ion beam to modify graphene for device applications. <i>Nanotechnology</i> , 2012 , 23, 255305	3.4	38
81	Controlling burst effect with PLA/PVA coaxial electrospun scaffolds loaded with BMP-2 for bone guided regeneration. <i>Materials Science and Engineering C</i> , 2019 , 97, 602-612	8.3	35
80	Growth mechanisms of Ca- and P-rich MAO films in Ti-15Zr-xMo alloys for osseointegrative implants. <i>Surface and Coatings Technology</i> , 2018 , 344, 373-382	4.4	30
79	Activation of Tungsten Oxide for Propane Dehydrogenation and Its High Catalytic Activity and Selectivity. <i>Catalysis Letters</i> , 2017 , 147, 622-632	2.8	29
78	Graphene nanoribbon superlattices fabricated via He ion lithography. <i>Applied Physics Letters</i> , 2014 , 104, 193114	3.4	29
77	Experimental and theoretical investigations of monolayer and few-layer talc. <i>2D Materials</i> , 2015 , 2, 015004	3.4	24
76	Al-/Fe-(hydr)oxides-organic carbon associations in Oxisols I From ecosystems to submicron scales. <i>Catena</i> , 2017 , 154, 63-72	5.8	23
75	The High performance of nanocrystalline CVD diamond coated hip joints in wear simulator test. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 49, 175-85	4.1	23
74	Plasmon-Tunable Tip Pyramids: Monopole Nanoantennas for Near-Field Scanning Optical Microscopy. <i>Advanced Optical Materials</i> , 2018 , 6, 1800528	8.1	22
73	Calcium incorporation in graphene oxide particles: A morphological, chemical, electrical, and thermal study. <i>Thin Solid Films</i> , 2016 , 610, 10-18	2.2	22
72	Nanoscale mapping of carbon oxidation in pyrogenic black carbon from ancient Amazonian anthrosols. <i>Environmental Sciences: Processes and Impacts</i> , 2015 , 17, 775-9	4.3	20
71	Multi-Scale Evaluation of Wear in UHMWPE-Metal Hip Implants Tested in a hip Joint Simulator. <i>Biotribology</i> , 2015 , 4, 1-11	2.3	18
70	Hysteresis in the resistance of a graphene device induced by charge modulation in the substrate. <i>Applied Physics Letters</i> , 2010 , 97, 042113	3.4	17
69	Morphology, crystalline structure and thermal properties of PEO/MEEP blends. <i>European Polymer Journal</i> , 2007 , 43, 3283-3291	5.2	16
68	The two faces of titanium dioxide nanoparticles bio-camouflage in 3D bone spheroids. <i>Scientific Reports</i> , 2019 , 9, 9309	4.9	15
67	Quantifying defects in N-layer graphene via a phenomenological model of Raman spectroscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 319, 71-74	1.2	15
66	The role of intermolecular interactions in polyaniline/polyamide-6,6 pressure-sensitive blends studied by DFT and 1H NMR. <i>European Polymer Journal</i> , 2016 , 85, 588-604	5.2	14
65	Microstructure and selected mechanical properties of aged Ti-15Zr-based alloys for biomedical applications. <i>Materials Science and Engineering C</i> , 2018 , 91, 762-771	8.3	14

64	TiO ₂ nanotubes enriched with calcium, phosphorous and zinc: promising bio-selective functional surfaces for osseointegrated titanium implants. <i>RSC Advances</i> , 2017 , 7, 49720-49738	3.7	14
63	Nanoscale lateral switchable rectifiers fabricated by local anodic oxidation. <i>Journal of Applied Physics</i> , 2011 , 110, 024511	2.5	14
62	Optical Nanoantennas for Tip-Enhanced Raman Spectroscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-11	3.8	14
61	Optimization of Benzodiazepine Drugs Removal from Water by Heterogeneous Photocatalysis Using TiO ₂ /Activated Carbon Composite. <i>Water, Air, and Soil Pollution</i> , 2019 , 230, 1	2.6	13
60	Heat Dissipation Interfaces Based on Vertically Aligned Diamond/Graphite Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24772-7	9.5	13
59	Corn starch films as a long-term drug delivery system for chlorhexidine gluconate. <i>Materials Science and Engineering C</i> , 2020 , 112, 110852	8.3	13
58	Surface-enhanced Raman scattering study of the redox adsorption of p-phenylenediamine on gold or copper surfaces. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 103, 108-13	4.4	13
57	Electrochemical Response of Glassy Carbon Electrodes Modified using Graphene Sheets of Different Sizes. <i>International Journal of Electrochemical Science</i> , 2018 , 71-87	2.2	13
56	Ion beam nanopatterning and micro-Raman spectroscopy analysis on HOPG for testing FIB performances. <i>Ultramicroscopy</i> , 2011 , 111, 1338-42	3.1	12
55	Revealing lattice disorder, oxygen incorporation and pore formation in laser induced two-photon oxidized graphene. <i>Carbon</i> , 2019 , 143, 720-727	10.4	12
54	Interaction between lamellar twinning and catalyst dynamics in spontaneous core-shell InGaP nanowires. <i>Nanoscale</i> , 2015 , 7, 12722-7	7.7	11
53	Mo-doped WO ₃ nanowires for adsorbing methylene blue dye from wastewater. <i>Journal of Materials Science</i> , 2020 , 55, 6429-6440	4.3	11
52	Fabrication of gas nanosensors and microsensors via local anodic oxidation. <i>Langmuir</i> , 2009 , 25, 602-5	4	11
51	Morphology and morphogenesis of SARS-CoV-2 in Vero-E6 cells. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2021 , 116, e200443	2.6	11
50	Physical Structure and Electrochemical Response of Diamond-Graphite Nanoplatelets: From CVD Synthesis to Label-Free Biosensors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8470-8482	9.5	10
49	High-performance electrochemical sensor based on molecularly imprinted polypyrrole-graphene modified glassy carbon electrode. <i>Thin Solid Films</i> , 2020 , 699, 137875	2.2	9
48	Crystallinity, oxidation states and morphology of polyaniline coated curau fibers in polyamide-6 composites. <i>Composites Science and Technology</i> , 2013 , 88, 106-112	8.6	9
47	Plasmon 3D Electron Tomography and Local Electric-Field Enhancement of Engineered Plasmonic Nanoantennas. <i>ACS Photonics</i> , 2018 , 5, 2834-2842	6.3	8

46	Silicon dioxide covered Au and Ag nanoparticles for shell-isolated nanoparticle enhanced spectroscopies in the near-infrared. <i>RSC Advances</i> , 2015 , 5, 59373-59378	3.7	7
45	Quantum corrections to conductivity in graphene with vacancies. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 100, 40-44	3	7
44	Unraveling structural and compositional information in 3D FinFET electronic devices. <i>Scientific Reports</i> , 2019 , 9, 11629	4.9	7
43	Long-range crystalline order in spicules from the calcareous sponge <i>Paraleucilla magna</i> (Porifera, Calcarea). <i>Acta Biomaterialia</i> , 2014 , 10, 3875-84	10.8	7
42	Patterning graphene with a helium ion microscope: Observation of metal-insulator transition induced by disorder. <i>Physical Review B</i> , 2015 , 91,	3.3	7
41	On the Structural and Chemical Characteristics of Co/Al ₂ O ₃ /graphene Interfaces for Graphene Spintronic Devices. <i>Scientific Reports</i> , 2015 , 5, 14332	4.9	7
40	Propanalysis of Methyl Paraoxon in the Presence of Aluminum-Titanate-Supported Erbium Oxide. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22323-22329	3.8	7
39	Free glycerol determination in biodiesel samples using palladium nanoparticles modified glassy carbon electrode associated with solid phase extraction. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 3057-3066	2.6	6
38	All-Diamond Microelectrodes as Solid State Probes for Localized Electrochemical Sensing. <i>Analytical Chemistry</i> , 2015 , 87, 6487-92	7.8	6
37	CO ₂ and H ₂ adsorption on 3D nitrogen-doped porous graphene: Experimental and theoretical studies. <i>Journal of CO₂ Utilization</i> , 2021 , 48, 101517	7.6	6
36	Assessment of a High-Throughput Methodology for the Study of Alloy Oxidation using Al _x FeyNi _{1-x-y} Composition Gradient Thin Films. <i>ACS Combinatorial Science</i> , 2016 , 18, 425-36	3.9	5
35	Surface-enhanced Raman scattering study of the adsorption of croconate violet on colloidal silver particles. <i>Vibrational Spectroscopy</i> , 2013 , 64, 153-157	2.1	5
34	Nanofabrication of plasmon-tunable nanoantennas for tip-enhanced Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2020 , 153, 114201	3.9	5
33	Hardening of Al thin films by TiC doping. <i>Surface and Coatings Technology</i> , 2017 , 325, 650-655	4.4	4
32	Characterization of Metal Oxide-Based Gas Nanosensors and Microsensors Fabricated via Local Anodic Oxidation Using Atomic Force Microscopy. <i>Advances in Materials Science and Engineering</i> , 2013 , 2013, 1-13	1.5	4
31	Final report of CCQM-K129 Measurement of Mole Fractions of Cu, In, Ga and Se in Cu(In,Ga)Se ₂ Films. <i>Metrologia</i> , 2016 , 53, 08011-08011	2.1	4
30	Sodium-Mediated Low-Temperature Synthesis of Monolayers of Molybdenum Disulfide for Nanoscale Optoelectronic Devices. <i>ACS Applied Nano Materials</i> , 2021 , 4, 4172-4180	5.6	4
29	Probing the nature of soil organic matter. <i>Critical Reviews in Environmental Science and Technology</i> , 1-22	11.1	4

28	Cyclodextrin - Stabilized Palladium Nanoparticles on Ceria: Investigation of Support Interactions and Pivotal Promotion in the Suzuki-Miyaura Reaction. <i>ChemistrySelect</i> , 2020 , 5, 7227-7235	1.8	3
27	Nanowires and nanoribbons formed by methylphosphonic acid. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3071-80	1.3	3
26	SARS-CoV-2: Ultrastructural Characterization of Morphogenesis in an In Vitro System.. <i>Viruses</i> , 2022 , 14,	6.2	3
25	Nanostructured Hydroxyapatite from Hen's Eggshells Using Sucrose as a Template. <i>Materials Research</i> , 2020 , 23,	1.5	3
24	Cross-linked lignin coatings produced by UV light and SF6 plasma treatments. <i>Progress in Organic Coatings</i> , 2019 , 128, 82-89	4.8	3
23	Characterization of Polyaniline-Based Blends, Composites, and Nanocomposites 2018 , 209-233		3
22	SPEEK-Tin dioxide proton conducting membranes: Effect of modifying agent of tin dioxide particles surface. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49507	2.9	2
21	Electron Microscopy and Spectroscopy Analysis of Carbon Nanostructures in Highly Fertile Amazonian Anthrosoils. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1502-1503	0.5	2
20	A New Sensor Based on Reduced Graphene Oxide/Au Nanoparticles for Glycerol Detection. <i>Materials Research</i> , 2020 , 23,	1.5	2
19	Thermoresponsive Starch Hydrogel Stabilized Pd Nanoparticles: Soft Catalyst for the Preparation of (±)-Methylbiphenylalanine in Water Aiming at Bioorthogonal Chemistries. <i>Catalysis Letters</i> , 2021 , 151, 844-852	2.8	2
18	Revealing Pd Nanoparticles Formation from PEG-Mediated Decomposition of Organometallic Precursor and Their Application as Catalyst for the Synthesis of n-Extended Carbazoles.. <i>ChemistrySelect</i> , 2018 , 3, 9725-9730	1.8	2
17	Antibacterial coatings on vegetable ivory obtained by cold plasma jet activation of silicone and copaiba oils. <i>Plasma Processes and Polymers</i> , 2020 , 17, 2000035	3.4	1
16	Flashed copper and silver luster nano-structures: Characterization and technology. <i>Ceramics International</i> , 2016 , 42, 7757-7766	5.1	1
15	High-field paramagnetic Meissner effect up to 14 T in melt-textured YBa ₂ Cu ₃ O _{7-x} . <i>Physica C: Superconductivity and Its Applications</i> , 2016 , 525-526, 105-110	1.3	1
14	Effect of HMVF and LMVF layers thickness and annealing on the optical properties of Ti-Si-O-N films for mid-temperature solar thermal absorbers. <i>Solar Energy</i> , 2019 , 189, 318-324	6.8	1
13	Electron back scattered diffraction characterization of Sm(CoFeCuZr) _z magnets. <i>Journal of Applied Physics</i> , 2011 , 109, 07A750	2.5	1
12	Structural characterization and plasmonic properties of manganese oxide-coated gold nanorods.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 272, 120988	4.4	1
11	Effect of Ultra-Turrax on Nanocellulose Produced by Acid Hydrolysis and Modified by Nano ZnO by Sol-Gel Method. <i>Materials Sciences and Applications</i> , 2020 , 11, 150-166	0.3	1

10	Electrochemical analysis of monoethylene glycol using rGO/AuPd-np-modified glassy carbon electrode. <i>Bulletin of Materials Science</i> , 2021 , 44, 1	1.7	1
9	Hexamethyldisiloxane coating by plasma to create a superhydrophobic surface for fabric masks. <i>Journal of Materials Research and Technology</i> , 2022 , 17, 913-924	5.5	0
8	Electrochemical Analysis of Free Glycerol in Biodiesel Using Reduced Graphene Oxide and Gold/Palladium Core-Shell Nanoparticles Modified Glassy Carbon Electrode. <i>Processes</i> , 2021 , 9, 1389	2.9	0
7	Etching-Free Transfer and Nanoimaging of CVD-Grown MoS ₂ Monolayers. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 21011-21017	3.8	0
6	The structure of Mn ₃ O ₄ (110) thin films. <i>Surface Science</i> , 2022 , 720, 122062	1.8	0
5	Impact of nanoconfinement on acetylacetone Equilibria in Ordered Mesoporous Silicates. <i>Nanotechnology</i> , 2020 , 31, 355706	3.4	
4	The role of interference and polarization effects in the optical visualization of carbon nanotubes. <i>Journal of Applied Physics</i> , 2013 , 113, 084314	2.5	
3	Characterizing inorganic crystals grown on organic self-assembled bilayers with scanning probe and electron microscopies. <i>Microscopy Research and Technique</i> , 2013 , 76, 1278-83	2.8	
2	Study of Carbon Nanostructures for Soil Fertility Improvement. <i>Nanomedicine and Nanotoxicology</i> , 2016 , 85-104	0.3	
1	Rational design of large flat nitrogen-doped graphene oxide quantum dots with green-luminescence suitable for biomedical applications. <i>RSC Advances</i> , 2022 , 12, 14342-14355	3.7	