

Alem-Mar B Goncalves

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

552
citations

933447

10
h-index

642732

23
g-index

36
all docs

36
docs citations

36
times ranked

1123
citing authors

#	ARTICLE	IF	CITATIONS
1	On the growth and electrical characterization of CuO nanowires by thermal oxidation. Journal of Applied Physics, 2009, 106, .	2.5	139
2	Flame synthesis of graphene films in open environments. Carbon, 2011, 49, 5064-5070.	10.3	90
3	Screening Charged Impurities and Lifting the Orbital Degeneracy in Graphene by Populating Landau Levels. Physical Review Letters, 2014, 112, 036804.	7.8	65
4	Atomic surface structure of graphene and its buffer layer on SiC(0001): A chemical-specific photoelectron diffraction approach. Physical Review B, 2013, 87, .	3.2	41
5	Asymmetric Effect of Oxygen Adsorption on Electron and Hole Mobilities in Bilayer Graphene: Long- and Short-Range Scattering Mechanisms. ACS Nano, 2013, 7, 6597-6604.	14.6	34
6	Multi-wavelength calibration: Determination of trace toxic elements in medicine plants by ICP OES. Microchemical Journal, 2019, 146, 381-386.	4.5	23
7	Correlation between (in)commensurate domains of multilayer epitaxial graphene grown on SiC(0001) by CVD. ACS Nano, 2013, 7, 6597-6604.	2.6	19
8	ZnO UV photodetector with controllable quality factor and photosensitivity. AIP Advances, 2013, 3, .	1.3	19
9	Arduino-based experiment demonstrating Malus's law. Physics Education, 2018, 53, 035034.	0.5	14
10	Ultrabroadband Nanocavity of Hyperbolic Phonon Polaritons in 1D-Like h-BN . ACS Photonics, 2018, 5, 1100-1105.	6.6	13
11	Fabrication of Gas Nanosensors and Microsensors via Local Anodic Oxidation. Langmuir, 2009, 25, 602-605.	3.5	12
12	Driven damped harmonic oscillator resonance with an Arduino. Physics Education, 2017, 52, 043002.	0.5	10
13	Hydrogen sensing in titanate nanotubes associated with modulation in protonic conduction. Nanotechnology, 2011, 22, 235501.	2.6	8
14	Simple pendulum for blind students. Physics Education, 2017, 52, 053002.	0.5	8
15	Use of an Arduino to study buoyancy force. Physics Education, 2018, 53, 035010.	0.5	8
16	Portland Cement/Acrocomia Aculeata Endocarp Bricks: Thermal Insulation and Mechanical Properties. Materials, 2020, 13, 2081.	2.9	6
17	Surface Tension Measured with Arduino. Physics Teacher, 2019, 57, 640-641.	0.3	5
18	PVDF/ KNO_3 Composite Sub-Microfibers Produced by Solution Blow Spinning as a Hydrophobic Matrix for Fertilizer Delivery System. Polymers, 2022, 14, 1000.	4.5	5

#	ARTICLE	IF	CITATIONS
19	Impulse measurement using an Arduino. <i>Physics Education</i> , 2018, 53, 035005.	0.5	4
20	Using an Arduino to demonstrate Faraday's law. <i>Physics Education</i> , 2019, 54, 043011.	0.5	4
21	Active Porous Electrodes Prepared by Ultrasonic Bath and their Application in Glucose/O ₂ Electrochemical Reactions. <i>Electroanalysis</i> , 2020, 32, 1084-1092.	2.9	4
22	Metastable phase formation and structural evolution of epitaxial graphene grown on SiC(100) under a temperature gradient. <i>Nanotechnology</i> , 2012, 23, 175603.	2.6	3
23	Electrical Immunosensor Made with Antigenic Peptide NS5A ¹ Immobilized onto Silk Fibroin for Diagnosing Hepatitis C. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	3
24	Mechanical and microstructural characterization of epoxy/sawdust (<i>Pinus elliottii</i>) composites. <i>Polymers and Polymer Composites</i> , 2021, 29, 1135-1142.	1.9	3
25	An experiment to observe Stevin's law with an Arduino. <i>Physics Education</i> , 2020, 55, 033004.	0.5	3
26	A 3D-printed model coupled to an Arduino emulates the Rutherford scattering experiment. <i>Physics Education</i> , 2021, 56, 055003.	0.5	2
27	A 3D-Printed Model That Simulates a Geiger-Müller Counter and the Radioactive Decay Experiment. <i>Journal of Chemical Education</i> , 0, , .	2.3	2
28	Interference and diffraction experiment using 3D printing and Arduino. <i>Physics Education</i> , 2022, 57, 025011.	0.5	2
29	Near-edge X-ray absorption spectroscopy signature of image potential states in multilayer epitaxial graphene. <i>Surface Science</i> , 2016, 644, 135-140.	1.9	1
30	Determinação do número pi (π) por meio de uma rede quadrada de resistores idênticos. <i>Revista Brasileira De Ensino De Fisica</i> , 2017, 40, .	0.2	1
31	Exploring Torricelli's theorem with Arduino. <i>Journal of Experimental Techniques and Instrumentation</i> , 2022, 4, 22-28.	0.1	1
32	Looking for absolute zero using an Arduino. <i>Physics Education</i> , 2019, 54, 065012.	0.5	0
33	A demonstration about human sound localization. <i>Physics Education</i> , 2019, 54, 013004.	0.5	0
34	Spherical pendulum as an analogy to Kepler's second law. <i>Physics Education</i> , 2020, 55, 015002.	0.5	0
35	Use of Arduino to observe the chaotic movement of a magnetic pendulum. <i>Physics Education</i> , 2021, 56, 015013.	0.5	0
36	Exploring kinematics graphs using Arduino and an interactive Excel spreadsheet. <i>Physics Education</i> , 2022, 57, 023007.	0.5	0