

# Alem-Mar B Goncalves

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/982232/publications.pdf>

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	Exploring kinematics graphs using Arduino and an interactive Excel spreadsheet. <i>Physics Education</i> , 2022, 57, 023007.	0.5	0
2	PVDF/KNO <sub>3</sub> Composite Sub-Microfibers Produced by Solution Blow Spinning as a Hydrophobic Matrix for Fertilizer Delivery System. <i>Polymers</i> , 2022, 14, 1000.	4.5	5
3	Interference and diffraction experiment using 3D printing and Arduino. <i>Physics Education</i> , 2022, 57, 025011.	0.5	2
4	Exploring Torricelli's theorem with Arduino. <i>Journal of Experimental Techniques and Instrumentation</i> , 2022, 4, 22-28.	0.1	1
5	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
6	A 3D-printed model coupled to an Arduino emulates the Rutherford scattering experiment. <i>Physics Education</i> , 2021, 56, 055003.	0.5	2
7	Use of Arduino to observe the chaotic movement of a magnetic pendulum. <i>Physics Education</i> , 2021, 56, 015013.	0.5	0
8	Spherical pendulum as an analogy to Kepler's second law. <i>Physics Education</i> , 2020, 55, 015002.	0.5	0
9	Portland Cement/ <i>Acrocomia Aculeata</i> Endocarp Bricks: Thermal Insulation and Mechanical Properties. <i>Materials</i> , 2020, 13, 2081.	2.9	6
10	An experiment to observe Stevin's law with an Arduino. <i>Physics Education</i> , 2020, 55, 033004.	0.5	3
11	Active Porous Electrodes Prepared by Ultrasonic Bath and their Application in Glucose/O <sub>2</sub> Electrochemical Reactions. <i>Electroanalysis</i> , 2020, 32, 1084-1092.	2.9	4
12	Looking for absolute zero using an Arduino. <i>Physics Education</i> , 2019, 54, 065012.	0.5	0
13	Multi-wavelength calibration: Determination of trace toxic elements in medicine plants by ICP OES. <i>Microchemical Journal</i> , 2019, 146, 381-386.	4.5	23
14	Using an Arduino to demonstrate Faraday's law. <i>Physics Education</i> , 2019, 54, 043011.	0.5	4
15	Surface Tension Measured with Arduino. <i>Physics Teacher</i> , 2019, 57, 640-641.	0.3	5
16	A demonstration about human sound localization. <i>Physics Education</i> , 2019, 54, 013004.	0.5	0
17	Arduino-based experiment demonstrating Malus's law. <i>Physics Education</i> , 2018, 53, 035034.	0.5	14
18	Use of an Arduino to study buoyancy force. <i>Physics Education</i> , 2018, 53, 035010.	0.5	8

#	ARTICLE	IF	CITATIONS
19	Impulse measurement using an Arduino. <i>Physics Education</i> , 2018, 53, 035005.	0.5	4
20	Driven damped harmonic oscillator resonance with an Arduino. <i>Physics Education</i> , 2017, 52, 043002.	0.5	10
21	Simple pendulum for blind students. <i>Physics Education</i> , 2017, 52, 053002.	0.5	8
22	Determinação do número pi ( $\pi$ ) por meio de uma rede quadrada de resistores idênticos. <i>Revista Brasileira De Ensino De Física</i> , 2017, 40, .	0.2	1
23	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
24	Screening Charged Impurities and Lifting the Orbital Degeneracy in Graphene by Populating Landau Levels. <i>Physical Review Letters</i> , 2014, 112, 036804.	7.8	65
25	Asymmetric Effect of Oxygen Adsorption on Electron and Hole Mobilities in Bilayer Graphene: Long- and Short-Range Scattering Mechanisms. <i>ACS Nano</i> , 2013, 7, 6597-6604.	14.6	34
26	ZnO UV photodetector with controllable quality factor and photosensitivity. <i>AIP Advances</i> , 2013, 3, .	1.3	19
27	Atomic surface structure of graphene and its buffer layer on SiC(0001): A chemical-specific photoelectron diffraction approach. <i>Physical Review B</i> , 2013, 87, .	3.2	41
28	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
29	Correlation between (in)commensurate domains of multilayer epitaxial graphene grown on SiC(0001). <i>Journal of Applied Physics</i> , 2012, 112, 074314.	2.6	19
30	Flame synthesis of graphene films in open environments. <i>Carbon</i> , 2011, 49, 5064-5070.	10.3	90
31	Hydrogen sensing in titanate nanotubes associated with modulation in protonic conduction. <i>Nanotechnology</i> , 2011, 22, 235501.	2.6	8
32	Fabrication of Gas Nanosensors and Microsensors via Local Anodic Oxidation. <i>Langmuir</i> , 2009, 25, 602-605.	3.5	12
33	On the growth and electrical characterization of CuO nanowires by thermal oxidation. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	139
34	Electrical Immunosensor Made with Antigenic Peptide NS5A $\epsilon$ 1 Immobilized onto Silk Fibroin for Diagnosing Hepatitis C. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	3
35	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
36	Ultrabroadband Nanocavity of Hyperbolic Phonon Polaritons in 1D-Like $\text{In}_2\text{S}_3$ . <i>ACS Photonics</i> , 0, , .	6.6	13