Isabel Escobar

List of Publications by Year
in descending order

41 papers	277 citations	932766 10 h-index	887659 17 g-index
41 all docs	41 docs citations	41 times ranked	245 citing authors

#	Article	IF	Citations
1	Measurement of the magnetic field of small magnets with a smartphone: a very economical laboratory practice for introductory physics courses. European Journal of Physics, 2015, 36, 065002.	0.3	66
2	Reduction of spherical-aberration impact in microscopy by wavefront coding. Optics Express, 2009, 17, 13810.	1.7	32
3	Reduction of the spherical aberration effect in high-numerical-aperture optical scanning instruments. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 3150.	0.8	24
4	Georeferencing of Personal Exposure to Radiofrequency Electromagnetic Fields from Wi-Fi in a University Area. International Journal of Environmental Research and Public Health, 2020, 17, 1898.	1.2	24
5	Measurements and Analysis of Personal Exposure to Radiofrequency Electromagnetic Fields at Outdoor and Indoor School Buildings: A Case Study at a Spanish School. IEEE Access, 2020, 8, 195692-195702.	2.6	22
6	Personal Exposure Assessment to Wi-Fi Radiofrequency Electromagnetic Fields in Mexican Microenvironments. International Journal of Environmental Research and Public Health, 2021, 18, 1857.	1.2	20
7	Reduction of focus size in tightly focused linearly polarized beams. Applied Physics Letters, 2004, 85, 4319.	1.5	19
8	Comment on â€œWi-Fi is an important threat to human healthâ€• Environmental Research, 2018, 167, 639.	3.7	19
9	Physical units to report intensity of electromagnetic wave. Environmental Research, 2022, 204, 112341.	3.7	13
10	Optical-sectioning improvement in two-color excitation scanning microscopy. Microscopy Research and Technique, 2004, 64, 96-102.	1.2	11
11	Linear Quadrupole Magnetic Field Measured with a Smartphone. Physics Teacher, 2020, 58, 182-185.	0.2	7
12	Shaded-Mask Filtering for Extended Depth-of-Field Microscopy. Journal of Information and Communication Convergence Engineering, 2013, 11, 139-146.	0.2	5
13	Reply to Comment on â€˜Measurement of the magnetic field of small magnets with a smartphone: a very economical laboratory practice for introductory physics coursesâ€™. European Journal of Physics, 2016, 37, 028002.	0.3	3
14	A CONCEPTUAL MAP ABOUT ALTERNATING CURRENT CIRCUITS. INTED Proceedings, 2016, , .	0.0	2
15	ELABORATION OF RUBRICS FOR THE EVALUATION BY COMPETENCES OF PHYSICS IN THE UNIVERSITY. INTED Proceedings, 2018, , .	0.0	2
16	Simple demonstration of the impact of spherical aberration on optical imaging. European Journal of Physics, 2008, 29, 619-627.	0.3	1
17	Comment on â€œThe Use of Pulsed Electromagnetic Fields to Promote Bone Responses to Biomaterials In Vitro and In Vivoâ€• International Journal of Biomaterials, 2019, 2019, 1-3.	1.1	1
18	An indirect measurement of the speed of light in a General Physics Laboratory. Journal of King Saud University - Science, 2020, 32, 2797-2802.	1.6	1

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19	THE MULTIDISCIPLINARY APPLICATION SEMINAR IN ENGINEERING AS STAGE FOR DEVELOPMENT OF HIGHER ORDER COGNITIVE SKILLS. INTED Proceedings, 2016, , .	0.0	1
20	Comment on: What is the radiation before 5G? A correlation study between measurements in situ and in real time and epidemiological indicators in Vallecas, Madrid, by I. LÃ³pez, N. FÃ©lix, M. Rivera, A. Alonso, and C. MaestÃº. Environmental Research, 2021, , 112138.	3.7	1
21	TEACHING AND LEARNING ACTIVE PHYSICS WITHIN FRAMEWORK OF COMPETENCIES. INTED Proceedings, 2017, , .	0.0	1
22	THE SCIENTIFIC LEARNING ACCORDING TO VIGOTSKY. , 2017, , .		1
23	New Analytical Tools for Evaluation of Spherical Aberration in Optical Microscopy. , 2011, , 85-99.		1
24	Point-spread-function Engineering in High-NA Optical Scanning Microscopy: Desensitizing to Sample-induced Aberrations. AIP Conference Proceedings, 2007, , .	0.3	0
25	Development of a laboratory practice for physics introductory courses using a rubric for evaluation by competences. Journal of Physics: Conference Series, 2019, 1287, 012025.	0.3	0
26	Comment on â€˜How long is my toilet roll-a simple exercise in mathematical modellingâ€™. International Journal of Mathematical Education in Science and Technology, 2021, 52, 1407-1412.	0.8	0
27	RUBRIC AS A COMPETENCE-ASSESSMENT TOOL AND CUSTOMIZED FEEDBACK: PLATFORMS FACILITATING ELABORATION. , 2021, , .		0
28	HOW DO PUPILS STUDY PHYSICS? DO THEY REALLY USE TEXTBOOKS?. , 2021, , .		0
29	Comment on â€œmultivariable quantitative relation between cell viability and the exposure parameters of 9.33 GHz RF-EMP irradiationâ€• Electromagnetic Biology and Medicine, 2022, 41, 118-119.	0.7	0
30	LEARNING PHYSICS WITH WOLFRAM ALPHA. , 2016, , .		0
31	CASE-BASED LEARNING IN MATERIALS ENGINEERING: THE OUIJA BOARD OF THE DEVIL. , 2018, , .		0
32	AN INNOVATIVE PRACTICE IN THE PHYSICS LABORATORY: RADIOFREQUENCY ELECTROMAGNETIC FIELDS PERSONAL EXPOSURE. INTED Proceedings, 2018, , .	0.0	0
33	THE USE OF CONCEPTUAL MAPS IN SOLVING PHYSICS PROBLEMS. , 2018, , .		0
34	RUBRIC ELABORATION TO EVALUATE BY COMPETENCES A PRACTICE OF PHYSICS LABORATORY: PARALLEL-PLATE CAPACITOR. , 2019, , .		0
35	RESULTS OF APPLICATION OF A RUBRIC FOR THE EVALUATION BY COMPETENCES: MEASUREMENT OF THE MAGNETIC FIELD OF SMALL MAGNETS WITH A SMARTPHONE. INTED Proceedings, 2019, , .	0.0	0
36	ComentÃ¡rio sobre RadiaÃ§Ã£o de baixa frequÃªncia e possÃvel influÃªncia nociva a sistemas biolÃ³gicos. Revista Brasileira De Ensino De Fisica, 0, 42, .	0.2	0

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37	DESIGN AND IMPLEMENTATION OF RUBRIC FOR THE EVALUATION BY COMPETENCES IN PHYSICAL SCIENCES: CASE STUDY PUC-MG, BRAZIL. , 2020, , .		0
38	BRAZILIAN NATIONAL PROGRAM OF EDUCATIONAL BOOKS FOR PHYSICS, CHEMISTRY, AND BIOLOGY: CONSOLIDATION OF AN EDITORIAL POLICY. INTED Proceedings, 2020, , .	0.0	0
39	Comment on Martin L. Pall â€œMillimeter (MM) wave and microwave frequency radiation produce deeply penetrating effects: the biology and the physicsâ€, Rev Environ Health, 2021. Reviews on Environmental Health, 2022, .	1.1	0
40	PHYSICS LABORATORY PRACTICES. AN EXPERIENCE AND APPROACH FOR PHYSICS TEACHING. INTED Proceedings, 2022, , .	0.0	0
41	STUDIES ON THE COMPLEXITY OF THE BRAZILIAN HIGH SCHOOL EXAM. INTED Proceedings, 2022, , .	0.0	0