

Massimiliano Malgieri

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

230
citations

1307594

7
h-index

1058476

14
g-index

36
all docs

36
docs citations

36
times ranked

144
citing authors

#	ARTICLE	IF	CITATIONS
1	What are we looking at when we say magenta? Quantitative measurements of RGB and CMYK colours with a homemade spectrophotometer. <i>European Journal of Physics</i> , 2016, 37, 065301.	0.6	34
2	Teaching quantum physics by the sum over paths approach and GeoGebra simulations. <i>European Journal of Physics</i> , 2014, 35, 055024.	0.6	30
3	Investigating the role of sliding friction in rolling motion: a teaching sequence based on experiments and simulations. <i>European Journal of Physics</i> , 2015, 36, 035020.	0.6	26
4	Measuring the hydrogen Balmer series and Rydberg's constant with a homemade spectrophotometer. <i>European Journal of Physics</i> , 2015, 36, 058001.	0.6	16
5	Test on the effectiveness of the sum over paths approach in favoring the construction of an integrated knowledge of quantum physics in high school. <i>Physical Review Physics Education Research</i> , 2017, 13, .	2.9	15
6	Understanding first-year students' curiosity and interest about physics' lessons learned from the HOPE project. <i>European Journal of Physics</i> , 2017, 38, 025701.	0.6	14
7	Quantitative analysis of transmittance and photoluminescence using a low cost apparatus. <i>European Journal of Physics</i> , 2016, 37, 015301.	0.6	12
8	Improving the connection between the microscopic and macroscopic approaches to thermodynamics in high school. <i>Physics Education</i> , 2016, 51, 065010.	0.5	7
9	Microscopic and probabilistic approach to thermal steady state based on a dice and coin toy model. <i>European Journal of Physics</i> , 2017, 38, 045102.	0.6	7
10	The photoluminescence of a fluorescent lamp: didactic experiments on the exponential decay. <i>Physics Education</i> , 2017, 52, 015011.	0.5	7
11	Using smartphone cameras and ambient light sensors in distance learning: the attenuation law as experimental determination of gamma correction. <i>Physics Education</i> , 2021, 56, 045007.	0.5	7
12	A sum-over-paths approach to one-dimensional time-independent quantum systems. <i>American Journal of Physics</i> , 2016, 84, 678-689.	0.7	6
13	Reconstruction of Huygens' gedanken experiment and measurements based on video analysis tools. <i>European Journal of Physics</i> , 2013, 34, 1145-1157.	0.6	5
14	Pre-service teachers' approaches to a historical problem in mechanics. <i>Physics Education</i> , 2014, 49, 500-511.	0.5	5
15	What Feynman could not yet use: the generalised Hong-Ou-Mandel experiment to improve the QED explanation of the Pauli exclusion principle. <i>Physics Education</i> , 2016, 51, 055002.	0.5	5
16	An experiment on radioactive equilibrium and its modelling using the "radioactive dice" approach. <i>Physics Education</i> , 2017, 52, 045023.	0.5	5
17	A study of the Boltzmann and Gibbs entropies in the context of a stochastic toy model. <i>European Journal of Physics</i> , 2018, 39, 035103.	0.6	5
18	Experiments and models about the force between permanent magnets: asymptotic analysis of a difficult problem. <i>European Journal of Physics</i> , 2020, 41, 025202.	0.6	4

#	ARTICLE	IF	CITATIONS
19	Quantitative experiments in a distance lab: studying blackbody radiation with a smartphone. European Journal of Physics, 2021, 42, 045103.	0.6	4
20	The surprising rolling spool: experiments and theory from mechanics to phase transitions. European Journal of Physics, 2014, 35, 055011.	0.6	3
21	Phase transitions in one-dimensional mechanical models of thermodynamics and the physics of the Hall bar system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 590-596.	2.1	2
22	The surprising rolling spool: librational motion and failure of the pure rolling condition. European Journal of Physics, 2015, 36, 038002.	0.6	2
23	Looking at phosphorescence with a smartphone, explaining phosphorescence with a dice toy model. Physics Education, 2018, 53, 065016.	0.5	2
24	Teaching the heat transfer law using a stochastic toy model. European Journal of Physics, 2020, 41, 015103.	0.6	2
25	Educational reconstructions of quantum physics using the sum over paths approach with energy dependent propagators. Journal of Physics: Conference Series, 2021, 1929, 012047.	0.4	2
26	Two experiments for the measurement of the centre of percussion of a physical pendulum. European Journal of Physics, 2016, 37, 055002.	0.6	1
27	Publisher's Note: Test on the effectiveness of the sum over paths approach in favoring the construction of an integrated knowledge of quantum physics in high school [Phys. Rev. Phys. Educ. Res. 13 (2017)]. Physical Review Physics Education Research, 2017, 13, .	2.9	1
28	Quantitative Measurements of RGB and CMYK Colours with a Homemade Spectrophotometer. , 2018, , 269-278.		0
29	Colours in your pocket: smartphone-based spectrometers to investigate the quantum world. Journal of Physics: Conference Series, 2019, 1287, 012005.	0.4	0
30	From the dicey world to the physical laws: dice toy models for bridging microscopic and macroscopic understanding of physical phenomena. Journal of Physics: Conference Series, 2019, 1287, 012026.	0.4	0
31	Teaching Thermal Phenomena and Irreversibility Through Playable Dice and Coin Toy Models. Challenges in Physics Education, 2021, , 149-162.	0.8	0
32	High school student difficulties in drawing the field lines for two magnets. Physics Education, 2021, 56, 065007.	0.5	0
33	Test on the effectiveness of the sum over paths approach in favoring the construction of an integrated knowledge of quantum physics in high school. Physical Review Physics Education Research, 2017, 113, .	2.9	0
34	Assessing Student's Conceptual Understanding in a Laboratory on the Measurement of the Planck Constant. , 2018, , 229-240.		0
35	Evaluation of an Experimental Sequence on Introductory Quantum Physics Based on LEDs and the Photoelectric Effect. , 2019, , 109-122.		0