

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	Teaching Thermal Phenomena and Irreversibility Through Playable Dice and Coin Toy Models. Challenges in Physics Education, 2021, , 149-162.	0.8	0
2	Using smartphone cameras and ambient light sensors in distance learning: the attenuation law as experimental determination of gamma correction. Physics Education, 2021, 56, 045007.	0.5	7
3	Quantitative experiments in a distance lab: studying blackbody radiation with a smartphone. European Journal of Physics, 2021, 42, 045103.	0.6	4
4	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
5	High school student difficulties in drawing the field lines for two magnets. Physics Education, 2021, 56, 065007.	0.5	0
6	Teaching the heat transfer law using a stochastic toy model. European Journal of Physics, 2020, 41, 015103.	0.6	2
7	Experiments and models about the force between permanent magnets: asymptotic analysis of a difficult problem. European Journal of Physics, 2020, 41, 025202.	0.6	4
8	Colours in your pocket: smartphone-based spectrometers to investigate the quantum world. Journal of Physics: Conference Series, 2019, 1287, 012005.	0.4	0
9	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
10	Evaluation of an Experimental Sequence on Introductory Quantum Physics Based on LEDs and the Photoelectric Effect. , 2019, , 109-122.		0
11	A study of the Boltzmann and Gibbs entropies in the context of a stochastic toy model. European Journal of Physics, 2018, 39, 035103.	0.6	5
12	Quantitative Measurements of RGB and CMYK Colours with a Homemade Spectrophotometer. , 2018, , 269-278.		0
13	Looking at phosphorescence with a smartphone, explaining phosphorescence with a dice toy model. Physics Education, 2018, 53, 065016.	0.5	2
14	Assessing Studentâ€™s Conceptual Understanding in a Laboratory on the Measurement of the Planck Constant. , 2018, , 229-240.		0
15	Microscopic and probabilistic approach to thermal steady state based on a dice and coin toy model. European Journal of Physics, 2017, 38, 045102.	0.6	7
16	The photoluminescence of a fluorescent lamp: didactic experiments on the exponential decay. Physics Education, 2017, 52, 015011.	0.5	7
17	Understanding first-year studentsâ€™ curiosity and interest about physicsâ€™ lessons learned from the HOPE project. European Journal of Physics, 2017, 38, 025701.	0.6	14
18	An experiment on radioactive equilibrium and its modelling using the â€™radioactive diceâ€™ approach. Physics Education, 2017, 52, 045023.	0.5	5

#	ARTICLE	IF	CITATIONS
19	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
20	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 [<i>Phys. Rev. Phys. Educ. Res.</i> 13, 010101 (2017)]. <i>Physical Review Physics Education Research</i> , 2017, 13, .	2.9	1
21	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, 113, .	2.9	0
22	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
23	Two experiments for the measurement of the centre of percussion of a physical pendulum. <i>European Journal of Physics</i> , 2016, 37, 055002.	0.6	1
24	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
25	Improving the connection between the microscopic and macroscopic approaches to thermodynamics in high school. <i>Physics Education</i> , 2016, 51, 065010.	0.5	7
26	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
27	Quantitative analysis of transmittance and photoluminescence using a low cost apparatus. <i>European Journal of Physics</i> , 2016, 37, 015301.	0.6	12
28	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
29	The surprising rolling spool: librational motion and failure of the pure rolling condition. <i>European Journal of Physics</i> , 2015, 36, 038002.	0.6	2
30	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
31	Pre-service teachers' approaches to a historical problem in mechanics. <i>Physics Education</i> , 2014, 49, 500-511.	0.5	5
32	The surprising rolling spool: experiments and theory from mechanics to phase transitions. <i>European Journal of Physics</i> , 2014, 35, 055011.	0.6	3
33	Teaching quantum physics by the sum over paths approach and GeoGebra simulations. <i>European Journal of Physics</i> , 2014, 35, 055024.	0.6	30
34	Phase transitions in one-dimensional mechanical models of thermodynamics and the physics of the Hall bar system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 590-596.	2.1	2
35	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