Pasquale Onorato

List of Publications by Year in descending order

74 papers	513 citations	687363 13 h-index	752698 20 g-index
74 all docs	74 docs citations	74 times ranked	431 citing authors

#	Article	IF	Citations
1	Commercial virtual reality headsets for developing augmented reality setups to track three-dimensional motion in real time. Physics Education, 2021, 56, 025016.	0.5	1
2	Teaching Thermal Phenomena and Irreversibility Through Playable Dice and Coin Toy Models. Challenges in Physics Education, 2021, , 149-162.	0.8	0
3	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
4	A sequence of experiments and models to grasp the strange nature of light. Journal of Physics: Conference Series, 2021, 1929, 012056.	0.4	0
5	Quantitative experiments in a distance lab: studying blackbody radiation with a smartphone. European Journal of Physics, 2021, 42, 045103.	0.6	4
6	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
7	High school student difficulties in drawing the field lines for two magnets. Physics Education, 2021, 56, 065007.	0.5	0
8	Teaching the heat transfer law using a stochastic toy model. European Journal of Physics, 2020, 41, 015103.	0.6	2
9	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
10	Video analysis-based experiments regarding Malusâ€™ law. Physics Education, 2020, 55, 045011.	0.5	12
11	Achilles overtakes the turtle: experiments and theory addressing studentsâ€™ difficulties with infinite processes. Physics Education, 2020, 55, 035010.	0.5	1
12	Colours in your pocket: smartphone-based spectrometers to investigate the quantum world. Journal of Physics: Conference Series, 2019, 1287, 012005.	0.4	0
13	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
14	Evaluation of an Experimental Sequence on Introductory Quantum Physics Based on LEDs and the Photoelectric Effect. , 2019, , 109-122.		0
15	The Beer Lambert law measurement made easy. Physics Education, 2018, 53, 035033.	0.5	16
16	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
17	Discussing fundamental topics of quantum physics using visualizations of bound states. Journal of Physics: Conference Series, 2018, 1076, 012010.	0.4	0
18	Quantitative Measurements of RGB and CMYK Colours with a Homemade Spectrophotometer. , 2018, , 269-278.		0

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19	Looking at phosphorescence with a smartphone, explaining phosphorescence with a dice toy model. Physics Education, 2018, 53, 065016.	0.5	2
20	Color mixing with four prisms redux. Physics Teacher, 2018, 56, 420-421.	0.3	0
21	Assessing Studentâ€™s Conceptual Understanding in a Laboratory on the Measurement of the Planck Constant. , 2018, , 229-240.		0
22	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
23	Using high speed smartphone cameras and video analysis techniques to teach mechanical wave physics. Physics Education, 2017, 52, 045017.	0.5	22
24	The photoluminescence of a fluorescent lamp: didactic experiments on the exponential decay. Physics Education, 2017, 52, 015011.	0.5	7
25	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, 13, .	2.9	15
26	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
27	What Feynman could not yet use: the generalised Hongâ€“Ouâ€“Mandel experiment to improve the QED explanation of the Pauli exclusion principle. Physics Education, 2016, 51, 055002.	0.5	5
28	Two experiments for the measurement of the centre of percussion of a physical pendulum. European Journal of Physics, 2016, 37, 055002.	0.6	1
29	A sum-over-paths approach to one-dimensional time-independent quantum systems. American Journal of Physics, 2016, 84, 678-689.	0.7	6
30	Improving the connection between the microscopic and macroscopic approaches to thermodynamics in high school. Physics Education, 2016, 51, 065010.	0.5	7
31	What are we looking at when we say magenta? Quantitative measurements of RGB and CMYK colours with a homemade spectrophotometer. European Journal of Physics, 2016, 37, 065301.	0.6	34
32	Investigating the role of sliding friction in rolling motion: a teaching sequence based on experiments and simulations. European Journal of Physics, 2015, 36, 035020.	0.6	26
33	Pre-service teachersâ€™ approaches to a historical problem in mechanics. Physics Education, 2014, 49, 500-511.	0.5	5
34	Tuning electronic transport in cobalt-filled carbon nanotubes using magnetic fields. Nanoscale, 2014, 6, 788-794.	5.6	11
35	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
36	Laboratory and Multimedia in Science Teaching: Experiments about Magnetic Force. Procedia, Social and Behavioral Sciences, 2014, 116, 1280-1287.	0.5	1

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37	Lorentzâ€™ Force as a Tool for Physics Inquiry: Studying Particle Tracks in Cloud and Streamer Chambers. Springer Proceedings in Physics, 2014, , 521-527.	0.2	0
38	Studying motion along cycloidal paths by means of digital video analysis. European Journal of Physics, 2013, 34, 921-930.	0.6	14
39	How can magnetic forces do work? Investigating the problem with students. Physics Education, 2013, 48, 766-775.	0.5	5
40	Reconstruction of Huygens' gedanken experiment and measurements based on video analysis tools. European Journal of Physics, 2013, 34, 1145-1157.	0.6	5
41	Carbon nanotube in a threading magnetic field: Conductance oscillations persistent current and magnetization. Physica Status Solidi (B): Basic Research, 2013, 250, 1606-1613.	1.5	2
42	Cylindric quantum wires in a threading magnetic field: A proposal of characterization based on zero bias electron transport. Journal of Applied Physics, 2012, 112, 123715.	2.5	2
43	Investigating the magnetic interaction with Geomag and Tracker Video Analysis: static equilibrium and anharmonic dynamics. European Journal of Physics, 2012, 33, 385-395.	0.6	12
44	Particle tracks in a cloud chamber: historical photographs as a context for studying magnetic force. European Journal of Physics, 2012, 33, 1721-1735.	0.6	2
45	Magnetic damping: Integrating experimental and theoretical analysis. American Journal of Physics, 2012, 80, 27-35.	0.7	10
46	Landau levels for relativistic particles: Einsteinâ€“Brillouinâ€“Keller quantization approach. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3525-3529.	2.1	2
47	Many electrons on a mesoscopic cylinder in a threading magnetic field: Persistent current and magnetization. Physica Status Solidi (B): Basic Research, 2012, 249, 1771-1778.	1.5	1
48	Low-dimensional nanostructures and a semiclassical approach for teaching Feynman's sum-over-paths quantum theory. European Journal of Physics, 2011, 32, 259-277.	0.6	7
49	Two Lagrange-like optical invariants and some applications. Optics Letters, 2011, 36, 1701.	3.3	1
50	Quantum nanojunctions as spintronic logic operators: Gate response in a two input ballistic interferometer. Journal of Applied Physics, 2011, 109, .	2.5	0
51	â€˜Home madeâ€™ model to study the greenhouse effect and global warming. European Journal of Physics, 2011, 32, 363-376.	0.6	8
52	THE EINSTEINâ€“BRILLOUINâ€“KELLER ACTION QUANTIZATION FOR DIRAC FERMIONS. Modern Physics Letters B, 2011, 25, 537-549.	1.9	4
53	Spin filtering effects in a one dimensional artificial lattice with ring geometry subject to Rashba coupling. European Physical Journal B, 2010, 73, 215-221.	1.5	7
54	Nanojunctions as logic operators for the spintronics. European Physical Journal B, 2010, 73, 563-570.	1.5	0

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55	Damped oscillations and equilibrium in a mass-spring system subject to sliding friction forces: Integrating experimental and theoretical analyses. American Journal of Physics, 2010, 78, 1120-1127.	0.7	27
56	Single spin-qubit rotators based on nanojunctions: A semiclassical path integral approach. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1571-1578.	2.7	4
57	Micro-Raman study of the role of sterilization on carbon nanotubes for biomedical applications. Nanomedicine, 2010, 5, 209-215.	3.3	21
58	Mechanical sensors and plastic syringes to verify the gas laws without neglecting friction. Physics Education, 2010, 45, 586-593.	0.5	0
59	Quantum rings with tunnel barriers in a threading magnetic field: Spectra, persistent current and ballistic conductance. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1393-1402.	2.7	15
60	Spin filtering through ballistic nanojunctions, the role of geometry and of spin orbit interaction. European Physical Journal B, 2008, 66, 509-515.	1.5	6
61	Spin separation driven by quantum interference in ballistic rings. Journal of Physics Condensed Matter, 2008, 20, 474214.	1.8	1
62	Spin separation in a T ballistic nanojunction due to lateral-confinement-induced spinâ€“orbit coupling. Journal of Physics Condensed Matter, 2007, 19, 395018.	1.8	4
63	The influence of dimensionality on superconductivity in carbon nanotubes. Journal of Physics Condensed Matter, 2007, 19, 395016.	1.8	2
64	Spin Hall effect and spin filtering in ballistic nanojunctions. Journal of Physics Condensed Matter, 2007, 19, 395019.	1.8	5
65	Filtering of spin currents based on a ballistic ring. Journal of Physics Condensed Matter, 2007, 19, 395020.	1.8	28
66	Magnetic field effects in carbon nanotubes. Journal of Physics Condensed Matter, 2007, 19, 395017.	1.8	17
67	Size dependent superconductivity in small-diameter carbon nanotubes. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1057-1058.	1.2	4
68	Josephson currents in correlated nanoscopic models. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1313-1314.	1.2	0
69	Spin hall accumulation in ballistic nanojunctions. European Physical Journal B, 2007, 59, 35-40.	1.5	1
70	Characterization of aluminium nitride nanostructures by XANES and FTIR spectroscopies with synchrotron radiation. Journal of Physics Condensed Matter, 2006, 18, S2095-S2104.	1.8	47
71	Magnetic field effects and renormalization of the long-range Coulomb interaction in carbon nanotubes. Annals of Physics, 2006, 321, 934-949.	2.8	9
72	Correlated nanoscopic Josephson junctions. Journal of Physics Condensed Matter, 2006, 18, S2069-S2081.	1.8	0

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73	Suppression of electronâ€“electron repulsion and superconductivity in ultra-small carbon nanotubes. Journal of Physics Condensed Matter, 2006, 18, S2115-S2126.	1.8	13
74	Crossover from the Luttinger-Liquid to Coulomb-Blockade Regime in Carbon Nanotubes. Physical Review Letters, 2005, 95, 186403.	7.8	22