

Pasquale Onorato

List of Publications by Year in descending order

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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	Characterization of aluminium nitride nanostructures by XANES and FTIR spectroscopies with synchrotron radiation. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S2095-S2104.	1.8	47
2	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
3	Filtering of spin currents based on a ballistic ring. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 395020.	1.8	28
4	Damped oscillations and equilibrium in a mass-spring system subject to sliding friction forces: Integrating experimental and theoretical analyses. <i>American Journal of Physics</i> , 2010, 78, 1120-1127.	0.7	27
5	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
6	Crossover from the Luttinger-Liquid to Coulomb-Blockade Regime in Carbon Nanotubes. <i>Physical Review Letters</i> , 2005, 95, 186403.	7.8	22
7	Using high speed smartphone cameras and video analysis techniques to teach mechanical wave physics. <i>Physics Education</i> , 2017, 52, 045017.	0.5	22
8	Micro-Raman study of the role of sterilization on carbon nanotubes for biomedical applications. <i>Nanomedicine</i> , 2010, 5, 209-215.	3.3	21
9	Magnetic field effects in carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 395017.	1.8	17
10	The Beer Lambert law measurement made easy. <i>Physics Education</i> , 2018, 53, 035033.	0.5	16
11	Quantum rings with tunnel barriers in a threading magnetic field: Spectra, persistent current and ballistic conductance. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1393-1402.	2.7	15
12	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
13	Studying motion along cycloidal paths by means of digital video analysis. <i>European Journal of Physics</i> , 2013, 34, 921-930.	0.6	14
14	Suppression of electron-electron repulsion and superconductivity in ultra-small carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S2115-S2126.	1.8	13
15	Investigating the magnetic interaction with Geomag and Tracker Video Analysis: static equilibrium and anharmonic dynamics. <i>European Journal of Physics</i> , 2012, 33, 385-395.	0.6	12
16	Video analysis-based experiments regarding Malus's law. <i>Physics Education</i> , 2020, 55, 045011.	0.5	12
17	Tuning electronic transport in cobalt-filled carbon nanotubes using magnetic fields. <i>Nanoscale</i> , 2014, 6, 788-794.	5.6	11
18	Magnetic damping: Integrating experimental and theoretical analysis. <i>American Journal of Physics</i> , 2012, 80, 27-35.	0.7	10

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19	Magnetic field effects and renormalization of the long-range Coulomb interaction in carbon nanotubes. <i>Annals of Physics</i> , 2006, 321, 934-949.	2.8	9
20	“Home made” model to study the greenhouse effect and global warming. <i>European Journal of Physics</i> , 2011, 32, 363-376.	0.6	8
21	Spin filtering effects in a one dimensional artificial lattice with ring geometry subject to Rashba coupling. <i>European Physical Journal B</i> , 2010, 73, 215-221.	1.5	7
22	Low-dimensional nanostructures and a semiclassical approach for teaching Feynman's sum-over-paths quantum theory. <i>European Journal of Physics</i> , 2011, 32, 259-277.	0.6	7
23	Improving the connection between the microscopic and macroscopic approaches to thermodynamics in high school. <i>Physics Education</i> , 2016, 51, 065010.	0.5	7
24	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
25	The photoluminescence of a fluorescent lamp: didactic experiments on the exponential decay. <i>Physics Education</i> , 2017, 52, 015011.	0.5	7
26	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
27	Spin filtering through ballistic nanojunctions, the role of geometry and of spin orbit interaction. <i>European Physical Journal B</i> , 2008, 66, 509-515.	1.5	6
28	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
29	Spin Hall effect and spin filtering in ballistic nanojunctions. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 395019.	1.8	5
30	How can magnetic forces do work? Investigating the problem with students. <i>Physics Education</i> , 2013, 48, 766-775.	0.5	5
31	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
32	Pre-service teachers' approaches to a historical problem in mechanics. <i>Physics Education</i> , 2014, 49, 500-511.	0.5	5
33	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
34	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
35	Spin separation in a T ballistic nanojunction due to lateral-confinement-induced spin-orbit coupling. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 395018.	1.8	4
36	Size dependent superconductivity in small-diameter carbon nanotubes. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 1057-1058.	1.2	4

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37	Single spin-qubit rotators based on nanojunctions: A semiclassical path integral approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1571-1578.	2.7	4
38	THE EINSTEINâ€“BRILLOUINâ€“KELLER ACTION QUANTIZATION FOR DIRAC FERMIONS. <i>Modern Physics Letters B</i> , 2011, 25, 537-549.	1.9	4
39	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
40	Quantitative experiments in a distance lab: studying blackbody radiation with a smartphone. <i>European Journal of Physics</i> , 2021, 42, 045103.	0.6	4
41	The influence of dimensionality on superconductivity in carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 395016.	1.8	2
42	Cylindric quantum wires in a threading magnetic field: A proposal of characterization based on zero bias electron transport. <i>Journal of Applied Physics</i> , 2012, 112, 123715.	2.5	2
43	Particle tracks in a cloud chamber: historical photographs as a context for studying magnetic force. <i>European Journal of Physics</i> , 2012, 33, 1721-1735.	0.6	2
44	Landau levels for relativistic particles: Einsteinâ€“Brillouinâ€“Keller quantization approach. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 3525-3529.	2.1	2
45	Carbon nanotube in a threading magnetic field: Conductance oscillations persistent current and magnetization. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1606-1613.	1.5	2
46	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
47	Looking at phosphorescence with a smartphone, explaining phosphorescence with a dice toy model. <i>Physics Education</i> , 2018, 53, 065016.	0.5	2
48	Teaching the heat transfer law using a stochastic toy model. <i>European Journal of Physics</i> , 2020, 41, 015103.	0.6	2
49	Educational reconstructions of quantum physics using the sum over paths approach with energy dependent propagators. <i>Journal of Physics: Conference Series</i> , 2021, 1929, 012047.	0.4	2
50	Spin hall accumulation in ballistic nanojunctions. <i>European Physical Journal B</i> , 2007, 59, 35-40.	1.5	1
51	Spin separation driven by quantum interference in ballistic rings. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 474214.	1.8	1
52	Two Lagrange-like optical invariants and some applications. <i>Optics Letters</i> , 2011, 36, 1701.	3.3	1
53	Many electrons on a mesoscopic cylinder in a threading magnetic field: Persistent current and magnetization. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1771-1778.	1.5	1
54	Laboratory and Multimedia in Science Teaching: Experiments about Magnetic Force. <i>Procedia, Social and Behavioral Sciences</i> , 2014, 116, 1280-1287.	0.5	1

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55	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
56	Achilles overtakes the turtle: experiments and theory addressing students' difficulties with infinite processes. <i>Physics Education</i> , 2020, 55, 035010.	0.5	1
57	Commercial virtual reality headsets for developing augmented reality setups to track three-dimensional motion in real time. <i>Physics Education</i> , 2021, 56, 025016.	0.5	1
58	Correlated nanoscopic Josephson junctions. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S2069-S2081.	1.8	0
59	Josephson currents in correlated nanoscopic models. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 1313-1314.	1.2	0
60	Nanojunctions as logic operators for the spintronics. <i>European Physical Journal B</i> , 2010, 73, 563-570.	1.5	0
61	Mechanical sensors and plastic syringes to verify the gas laws without neglecting friction. <i>Physics Education</i> , 2010, 45, 586-593.	0.5	0
62	Quantum nanojunctions as spintronic logic operators: Gate response in a two input ballistic interferometer. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	0
63	Discussing fundamental topics of quantum physics using visualizations of bound states. <i>Journal of Physics: Conference Series</i> , 2018, 1076, 012010.	0.4	0
64	Quantitative Measurements of RGB and CMYK Colours with a Homemade Spectrophotometer. , 2018, , 269-278.		0
65	Color mixing with four prisms redux. <i>Physics Teacher</i> , 2018, 56, 420-421.	0.3	0
66	Colours in your pocket: smartphone-based spectrometers to investigate the quantum world. <i>Journal of Physics: Conference Series</i> , 2019, 1287, 012005.	0.4	0
67	From the dicey world to the physical laws: dice toy models for bridging microscopic and macroscopic understanding of physical phenomena. <i>Journal of Physics: Conference Series</i> , 2019, 1287, 012026.	0.4	0
68	Teaching Thermal Phenomena and Irreversibility Through Playable Dice and Coin Toy Models. <i>Challenges in Physics Education</i> , 2021, , 149-162.	0.8	0
69	A sequence of experiments and models to grasp the strange nature of light. <i>Journal of Physics: Conference Series</i> , 2021, 1929, 012056.	0.4	0
70	High school student difficulties in drawing the field lines for two magnets. <i>Physics Education</i> , 2021, 56, 065007.	0.5	0
71	Lorentz' Force as a Tool for Physics Inquiry: Studying Particle Tracks in Cloud and Streamer Chambers. <i>Springer Proceedings in Physics</i> , 2014, , 521-527.	0.2	0
72	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

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73	Assessing Student's Conceptual Understanding in a Laboratory on the Measurement of the Planck Constant. , 2018, , 229-240.		0
74	Evaluation of an Experimental Sequence on Introductory Quantum Physics Based on LEDs and the Photoelectric Effect. , 2019, , 109-122.		0