

Carl E Mungan

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

250
citations

1163117

8
h-index

1058476

14
g-index

56
all docs

56
docs citations

56
times ranked

132
citing authors

#	ARTICLE	IF	CITATIONS
1	Hanging a capacitor plate from a spring: a coupled mechanicalâ€“electromagnetic oscillator. European Journal of Physics, 2022, 43, 035805.	0.6	0
2	Deducing the law of reflection from Fermatâ€™s principle. Physics Teacher, 2022, 60, 245-245.	0.3	0
3	Comment on â€“An electrostatics paradoxâ€™. Physics Education, 2022, 57, 038001.	0.5	1
4	Vertical Launch of a Grappling Hook. Physics Teacher, 2022, 60, 327-330.	0.3	2
5	Simple but accurate driven RLC experiment. Physics Education, 2022, 57, 053002.	0.5	1
6	Comment on â€“Two blocks connected by a string with variable tension: a dynamic caseâ€™. Physics Education, 2021, 56, 028001.	0.5	1
7	Liquid oscillating in a U-tube of variable cross section. European Journal of Physics, 2021, 42, 025008.	0.6	1
8	A Race Between Rolling and Sliding Up and Down an Incline. Physics Teacher, 2021, 59, 247-249.	0.3	4
9	Comment on â€“Acceleration of a ball down an inclined planeâ€™. Physics Education, 2021, 56, 048001.	0.5	0
10	Pendulum Motion Damped by Speed-Independent Friction. The Physics Educator, 2021, 03, 2150008.	0.4	0
11	Breathtaking Physics: Human Respiration as a Heat Engine. Physics Teacher, 2020, 58, 150-151.	0.3	3
12	Reply to Comment on â€“Coefficient of performance of Stirling refrigeratorsâ€™. European Journal of Physics, 2020, 41, 058002.	0.6	0
13	A simple measurement of the relative efficiency of human locomotion. Physics Education, 2019, 54, 043004.	0.5	2
14	How Quickly Can a Submarine Dive?. The Physics Educator, 2019, 01, 1950013.	0.4	1
15	Relationship Between a Vector Differential and the Corresponding Scalar Differential in Physics. The Physics Educator, 2019, 01, 1950011.	0.4	0
16	Reply to â€œRemarks on Newtonian Analysis of a Folded Chain Dropâ€• Physics Teacher, 2019, 57, 4-5.	0.3	1
17	Oblique elastic collisions of two smooth round objects. European Journal of Physics, 2018, 39, 045002.	0.6	6
18	Newtonian Analysis of a Folded Chain Drop. Physics Teacher, 2018, 56, 298-301.	0.3	6

#	ARTICLE	IF	CITATIONS
19	The electrobrachistochrone. European Journal of Physics, 2018, 39, 035006.	0.6	0
20	When experiment and energy conservation collide: video analysis of an unrolling mat. European Journal of Physics, 2018, 39, 025004.	0.6	3
21	Orbits of two electrons released from rest in a uniform transverse magnetic field. European Journal of Physics, 2018, 39, 025204.	0.6	0
22	Solving a projectile motion problem by thinking like a physicist. Physics Education, 2018, 53, 063003.	0.5	0
23	Isothermal heating: purist and utilitarian views. European Journal of Physics, 2018, 39, 045103.	0.6	1
24	MATLAB time-based simulations of projectile motion, pendulum oscillation, and water discharge. European Journal of Physics, 2018, 39, 065803.	0.6	6
25	Entropic Damping of the Motion of a Piston. Physics Teacher, 2017, 55, 180-183.	0.3	3
26	Damped oscillations of a frictionless piston in an adiabatic cylinder enclosing an ideal gas. European Journal of Physics, 2017, 38, 035102.	0.6	4
27	Minimum descent time along a set of connected inclined planes. European Journal of Physics, 2017, 38, 045002.	0.6	7
28	Optimizing the Launch of a Projectile to Hit a Target. Physics Teacher, 2017, 55, 528-529.	0.3	4
29	Coefficient of performance of Stirling refrigerators. European Journal of Physics, 2017, 38, 055101.	0.6	3
30	Single-Slit Diffraction: Transitioning from Geometric Optics to the Fraunhofer Regime. Physics Teacher, 2016, 54, 356-359.	0.3	8
31	Levitating a strip of paper by blowing over it. European Journal of Physics, 2016, 37, 065002.	0.6	1
32	The rain-powered cart. European Journal of Physics, 2016, 37, 055005.	0.6	0
33	Satellite splat II: an inelastic collision with a surface-launched projectile and the maximum orbital radius for planetary impact. European Journal of Physics, 2016, 37, 045004.	0.6	0
34	Radial descent of an energetically unbound spacecraft toward a comet. Physics Teacher, 2015, 53, 452-453.	0.3	1
35	Entropy change for the irreversible heat transfer between two finite objects. European Journal of Physics, 2015, 36, 048004.	0.6	4
36	Satellite splat: an inelastic collision with a surface-launched projectile. European Journal of Physics, 2015, 36, 045004.	0.6	2

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37	Identical distinguishable gas particles in the real world. Resonance, 2015, 20, 44-46.	0.3	0
38	Negative Work Done by a Person. Physics Teacher, 2015, 53, 224-224.	0.3	1
39	Impulse and work for the bullet-block Veritasium video. Physics Teacher, 2015, 53, 325-326.	0.3	4
40	SILVERED PING-PONG BALL BOUNCING UP AND DOWN INSIDE A CAPACITOR. American Journal of Physics, 2014, 82, 93-94.	0.7	1
41	Lifting a cup of water with an immersion blender. Physics Teacher, 2014, 52, 327-327.	0.3	1
42	Dropping a particle out of a roller coaster. European Journal of Physics, 2014, 35, 045007.	0.6	0
43	Complementary curves of descent. European Journal of Physics, 2013, 34, 59-65.	0.6	4
44	Time-Dependent Modeling of Brillouin Scattering in Optical Fibers Excited by a Chirped Diode Laser. IEEE Journal of Quantum Electronics, 2012, 48, 1542-1546.	1.9	15
45	Rolling friction on a wheeled laboratory cart. Physics Education, 2012, 47, 288-292.	0.5	29
46	Sign issues for one-dimensional vectors. Physics Teacher, 2010, 48, 439-440.	0.3	2
47	Repairing an elementary explanation of radiation pressure. American Journal of Physics, 2009, 77, 965-965.	0.7	1
48	Radial Motion of Two Mutually Attracting Particles. Physics Teacher, 2009, 47, 502-507.	0.3	5
49	Summer Challenges and Musings about Energy. Physics Teacher, 2008, 46, L1-L1.	0.3	0
50	Thermodynamics of a Block Sliding Across a Frictional Surface. Physics Teacher, 2007, 45, 288-291.	0.3	10
51	Radiation thermodynamics with applications to lasing and fluorescent cooling. American Journal of Physics, 2005, 73, 315-322.	0.7	35
52	Work and energy. American Journal of Physics, 2005, 73, 197-198.	0.7	3
53	A Primer on Work-Energy Relationships for Introductory Physics. Physics Teacher, 2005, 43, 10-16.	0.3	24
54	Irreversible Adiabatic Compression of an Ideal Gas. Physics Teacher, 2003, 41, 450-453.	0.3	17

#	ARTICLE	IF	CITATIONS
55	Sliding on the Surface of a Rough Sphere. <i>Physics Teacher</i> , 2003, 41, 326-328.	0.3	14
56	Acceleration of a pulled spool. <i>Physics Teacher</i> , 2001, 39, 481-485.	0.3	8