

# 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	Radiation thermodynamics with applications to lasing and fluorescent cooling. American Journal of Physics, 2005, 73, 315-322.	0.7	35
2	Rolling friction on a wheeled laboratory cart. Physics Education, 2012, 47, 288-292.	0.5	29
3	A Primer on Work-Energy Relationships for Introductory Physics. Physics Teacher, 2005, 43, 10-16.	0.3	24
4	Irreversible Adiabatic Compression of an Ideal Gas. Physics Teacher, 2003, 41, 450-453.	0.3	17
5	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
6	Sliding on the Surface of a Rough Sphere. Physics Teacher, 2003, 41, 326-328.	0.3	14
7	Thermodynamics of a Block Sliding Across a Frictional Surface. Physics Teacher, 2007, 45, 288-291.	0.3	10
8	Acceleration of a pulled spool. Physics Teacher, 2001, 39, 481-485.	0.3	8
9	Single-Slit Diffraction: Transitioning from Geometric Optics to the Fraunhofer Regime. Physics Teacher, 2016, 54, 356-359.	0.3	8
10	Minimum descent time along a set of connected inclined planes. European Journal of Physics, 2017, 38, 045002.	0.6	7
11	Oblique elastic collisions of two smooth round objects. European Journal of Physics, 2018, 39, 045002.	0.6	6
12	Newtonian Analysis of a Folded Chain Drop. Physics Teacher, 2018, 56, 298-301.	0.3	6
13	MATLAB time-based simulations of projectile motion, pendulum oscillation, and water discharge. European Journal of Physics, 2018, 39, 065803.	0.6	6
14	Radial Motion of Two Mutually Attracting Particles. Physics Teacher, 2009, 47, 502-507.	0.3	5
15	Complementary curves of descent. European Journal of Physics, 2013, 34, 59-65.	0.6	4
16	Entropy change for the irreversible heat transfer between two finite objects. European Journal of Physics, 2015, 36, 048004.	0.6	4
17	Impulse and work for the bullet-block Veritasium video. Physics Teacher, 2015, 53, 325-326.	0.3	4
18	Damped oscillations of a frictionless piston in an adiabatic cylinder enclosing an ideal gas. European Journal of Physics, 2017, 38, 035102.	0.6	4

#	ARTICLE	IF	CITATIONS
19	Optimizing the Launch of a Projectile to Hit a Target. <i>Physics Teacher</i> , 2017, 55, 528-529.	0.3	4
20	A Race Between Rolling and Sliding Up and Down an Incline. <i>Physics Teacher</i> , 2021, 59, 247-249.	0.3	4
21	Work and energy. <i>American Journal of Physics</i> , 2005, 73, 197-198.	0.7	3
22	Entropic Damping of the Motion of a Piston. <i>Physics Teacher</i> , 2017, 55, 180-183.	0.3	3
23	Coefficient of performance of Stirling refrigerators. <i>European Journal of Physics</i> , 2017, 38, 055101.	0.6	3
24	When experiment and energy conservation collide: video analysis of an unrolling mat. <i>European Journal of Physics</i> , 2018, 39, 025004.	0.6	3
25	Breathtaking Physics: Human Respiration as a Heat Engine. <i>Physics Teacher</i> , 2020, 58, 150-151.	0.3	3
26	Sign issues for one-dimensional vectors. <i>Physics Teacher</i> , 2010, 48, 439-440.	0.3	2
27	Satellite splat: an inelastic collision with a surface-launched projectile. <i>European Journal of Physics</i> , 2015, 36, 045004.	0.6	2
28	A simple measurement of the relative efficiency of human locomotion. <i>Physics Education</i> , 2019, 54, 043004.	0.5	2
29	Vertical Launch of a Grappling Hook. <i>Physics Teacher</i> , 2022, 60, 327-330.	0.3	2
30	Repairing an elementary explanation of radiation pressure. <i>American Journal of Physics</i> , 2009, 77, 965-965.	0.7	1
31	SILVERED PING-PONG BALL BOUNCING UP AND DOWN INSIDE A CAPACITOR. <i>American Journal of Physics</i> , 2014, 82, 93-94.	0.7	1
32	Lifting a cup of water with an immersion blender. <i>Physics Teacher</i> , 2014, 52, 327-327.	0.3	1
33	Radial descent of an energetically unbound spacecraft toward a comet. <i>Physics Teacher</i> , 2015, 53, 452-453.	0.3	1
34	Negative Work Done by a Person. <i>Physics Teacher</i> , 2015, 53, 224-224.	0.3	1
35	Levitating a strip of paper by blowing over it. <i>European Journal of Physics</i> , 2016, 37, 065002.	0.6	1
36	Isothermal heating: purist and utilitarian views. <i>European Journal of Physics</i> , 2018, 39, 045103.	0.6	1

#	ARTICLE	IF	CITATIONS
37	How Quickly Can a Submarine Dive?. The Physics Educator, 2019, 01, 1950013.	0.4	1
38	Reply to "Remarks on Newtonian Analysis of a Folded Chain Drop". Physics Teacher, 2019, 57, 4-5.	0.3	1
39	Comment on "Two blocks connected by a string with variable tension: a dynamic case". Physics Education, 2021, 56, 028001.	0.5	1
40	Liquid oscillating in a U-tube of variable cross section. European Journal of Physics, 2021, 42, 025008.	0.6	1
41	Comment on "An electrostatics paradox". Physics Education, 2022, 57, 038001.	0.5	1
42	Simple but accurate driven RLC experiment. Physics Education, 2022, 57, 053002.	0.5	1
43	Summer Challenges and Musings about Energy. Physics Teacher, 2008, 46, L1-L1.	0.3	0
44	Dropping a particle out of a roller coaster. European Journal of Physics, 2014, 35, 045007.	0.6	0
45	Identical distinguishable gas particles in the real world. Resonance, 2015, 20, 44-46.	0.3	0
46	The rain-powered cart. European Journal of Physics, 2016, 37, 055005.	0.6	0
47	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
48	The electrobrachistochrone. European Journal of Physics, 2018, 39, 035006.	0.6	0
49	Orbits of two electrons released from rest in a uniform transverse magnetic field. European Journal of Physics, 2018, 39, 025204.	0.6	0
50	Solving a projectile motion problem by thinking like a physicist. Physics Education, 2018, 53, 063003.	0.5	0
51	Relationship Between a Vector Differential and the Corresponding Scalar Differential in Physics. The Physics Educator, 2019, 01, 1950011.	0.4	0
52	Comment on "Acceleration of a ball down an inclined plane". Physics Education, 2021, 56, 048001.	0.5	0
53	Pendulum Motion Damped by Speed-Independent Friction. The Physics Educator, 2021, 03, 2150008.	0.4	0
54	Reply to Comment on "Coefficient of performance of Stirling refrigerators". European Journal of Physics, 2020, 41, 058002.	0.6	0

#	ARTICLE	IF	CITATIONS
55	Hanging a capacitor plate from a spring: a coupled mechanicalâ€“electromagnetic oscillator. European Journal of Physics, 2022, 43, 035805.	0.6	0
56	Deducing the law of reflection from Fermatâ€™s principle. Physics Teacher, 2022, 60, 245-245.	0.3	0