David E Meltzer

List of Publications by Year
in descending order

37 papers	1,572 citations	471509 17 h-index	330143 37 g-index
41 all docs	41 docs citations	41 times ranked	843 citing authors

#	Article	IF	Citations
1	The relationship between mathematics preparation and conceptual learning gains in physics: A possible â€œhidden variableâ€•in diagnostic pretest scores. American Journal of Physics, 2002, 70, 1259-1268.	0.7	275
2	Transforming the lecture-hall environment: The fully interactive physics lecture. American Journal of Physics, 2002, 70, 639-654.	0.7	153
3	Relation between studentsâ€™ problem-solving performance and representational format. American Journal of Physics, 2005, 73, 463-478.	0.7	147
4	Resource Letter ALIPâ€“1: Active-Learning Instruction in Physics. American Journal of Physics, 2012, 80, 478-496.	0.7	146
5	Investigation of studentsâ€™ reasoning regarding heat, work, and the first law of thermodynamics in an introductory calculus-based general physics course. American Journal of Physics, 2004, 72, 1432-1446.	0.7	111
6	Landau parameters and pairing-on the shores of the nuclear Fermi sea. Nuclear Physics A, 1982, 386, 125-165.	1.5	82
7	Initial understanding of vector concepts among students in introductory physics courses. American Journal of Physics, 2003, 71, 630-638.	0.7	76
8	A brief history of physics education in the United States. American Journal of Physics, 2015, 83, 447-458.	0.7	50
9	Age dependence of Olympic weightlifting ability. Medicine and Science in Sports and Exercise, 1994, 26, 1053???1067.	0.4	47
10	Student learning of thermochemical concepts in the context of solution calorimetry. International Journal of Science Education, 2003, 25, 779-800.	1.9	46
11	Calculation of mean excitation energy and stopping cross section in the orbital local plasma approximation. Physical Review A, 1990, 41, 220-232.	2.5	45
12	Promoting interactivity in physics lecture classes. Physics Teacher, 1996, 34, 72-76.	0.3	34
13	The future of physics education research: Intellectual challenges and practical concerns. American Journal of Physics, 2005, 73, 390-394.	0.7	30
14	Resource Letter TTSM-1: Teaching Thermodynamics and Statistical Mechanics in Introductory Physics, Chemistry, and Biology. American Journal of Physics, 2015, 83, 5-21.	0.7	25
15	Age-associated Performance Decline and Sex Differences in Olympic Weightlifting. Medicine and Science in Sports and Exercise, 2019, 51, 2302-2308.	0.4	23
16	Investigation Of Student Learning In Thermodynamics And Implications For Instruction In Chemistry And Engineering. AIP Conference Proceedings, 2007, , .	0.4	21
17	Density decomposition options in the orbital local plasma approximation. Nuclear Instruments & Methods in Physics Research B, 1993, 82, 493-502.	1.4	18
18	The Masters athlete in Olympic weightlifting: Training, lifestyle, health challenges, and gender differences. PLoS ONE, 2020, 15, e0243652.	2.5	18

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19	100 Years of Attempts to Transform Physics Education. Physics Teacher, 2016, 54, 523-527.	0.3	16
20	Transforming the preparation of physics teachers. American Journal of Physics, 2014, 82, 633-637.	0.7	15
21	The past and future of physics education reform. Physics Today, 2017, 70, 50-56.	0.3	13
22	Low-temperature spin-relaxation time in normal liquid 3He. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 106, 312-317.	2.1	10
23	Student Learning In Upper-Level Thermal Physics: Comparisons And Contrasts With Students In Introductory Courses. AIP Conference Proceedings, 2005, , .	0.4	10
24	Spin waves and spin diffusion in Fermi liquids: Bounds on effective diffusion coefficients. Physical Review B, 1986, 33, 4543-4556.	3.2	9
25	Observations Of General Learning Patterns In An Upper-Level Thermal Physics Course. AIP Conference Proceedings, 2009, , .	0.4	9
26	Strength in Numbers Women in Olympic-Style Weightlifting. Significance, 2021, 18, 20-25.	0.4	9
27	Stopping of swift projectiles in material thin films: hydrogen. Nuclear Instruments & Methods in Physics Research B, 1991, 56-57, 340-344.	1.4	8
28	Analysis Of Shifts In Studentsâ€™ Reasoning Regarding Electric Field And Potential Concepts. AIP Conference Proceedings, 2007, , .	0.4	7
29	Spin relaxation in normal liquid3He:T 1 in the Fermi liquid (T?T F) regime. Journal of Low Temperature Physics, 1986, 63, 215-233.	1.4	5
30	How Do You Hit A Moving Target? Addressing The Dynamics Of Studentsâ€™ Thinking. AIP Conference Proceedings, 2005, , .	0.4	4
31	How Heavy Lifting Lightens Our Lives: Content Analysis of Perceived Outcomes of Masters Weightlifting. Frontiers in Sports and Active Living, 2022, 4, 778491.	1.8	3
32	Rare-gas impurities in alkali metals: Relation to optical absorption. Physical Review B, 1988, 37, 6011-6018.	3.2	2
33	How Should Physics Teachers Be Prepared? A Review of Recommendations. Physics Teacher, 2021, 59, 530-534.	0.3	2
34	Nontraditional approach to algebra-based general physics. AIP Conference Proceedings, 1997, , .	0.4	1
35	Proposed determination of many-body effects in heavy-fermion systems by conduction-electron-spin resonance. Physical Review B, 1985, 32, 1835-1838.	3.2	0
36	Increasing active student participation in the classroom through the use of â€œflash cardsâ€• AIP Conference Proceedings, 1997, , .	0.4	0

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37	The Questions We Ask and Why: Methodological Orientation in Physics Education Research. AIP Conference Proceedings, 2004, , .	0.4	0