

# Harvey S Leff

## List of Publications by Year in descending order

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55  
papers

1,023  
citations

471509

17  
h-index

454955

30  
g-index

59  
all docs

59  
docs citations

59  
times ranked

394  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal efficiency at maximum work output: New results for old heat engines. American Journal of Physics, 1987, 55, 602-610.	0.7	208
2	EER, COP, and the second law efficiency for air conditioners. American Journal of Physics, 1978, 46, 19-22.	0.7	65
3	Thermodynamic entropy: The spreading and sharing of energy. American Journal of Physics, 1996, 64, 1261-1271.	0.7	62
4	All about work. American Journal of Physics, 1992, 60, 356-365.	0.7	57
5	Entropy, Its Language, and Interpretation. Foundations of Physics, 2007, 37, 1744-1766.	1.3	44
6	Class of Ensembles in the Statistical Theory of Energy Level Spectra. Journal of Mathematical Physics, 1964, 5, 763-768.	1.1	39
7	Efficiency and efficacy of incandescent lamps. American Journal of Physics, 1996, 64, 649-654.	0.7	34
8	The Correlation of Standard Entropy with Enthalpy Supplied from 0 to 298.15 K. Journal of Chemical Education, 2009, 86, 94.	2.3	32
9	Available work from a finite source and sink: How effective is a Maxwell's demon?. American Journal of Physics, 1987, 55, 701-705.	0.7	29
10	Teaching the photon gas in introductory physics. American Journal of Physics, 2002, 70, 792-797.	0.7	26
11	Irreversibility, entropy production, and thermal efficiency. American Journal of Physics, 1975, 43, 973-980.	0.7	25
12	Stopping objects with zero external work: Mechanics meets thermodynamics. American Journal of Physics, 1993, 61, 121-127.	0.7	25
13	Resource Letter 1: Maxwell's demon. American Journal of Physics, 1990, 58, 201-209.	0.7	24
14	Infinite Spin Limit of the Quantum Heisenberg Model. Journal of Mathematical Physics, 1971, 12, 1000-1005.	1.1	23
15	What if entropy were dimensionless?. American Journal of Physics, 1999, 67, 1114-1122.	0.7	23
16	Translational Invariance Properties of a Finite One-Dimensional Hard-Core Fluid. Journal of Mathematical Physics, 1967, 8, 306-314.	1.1	21
17	Removing the Mystery of Entropy and Thermodynamics – Part V. Physics Teacher, 2012, 50, 274-276.	0.3	21
18	Correlation Inequalities for Coupled Oscillators. Journal of Mathematical Physics, 1971, 12, 569-578.	1.1	17

#	ARTICLE	IF	CITATIONS
19	Entropy of measurement and erasure: Szilard's membrane model revisited. American Journal of Physics, 1994, 62, 994-1000.	0.7	17
20	Entropy and heat along reversible paths for fluids and magnets. American Journal of Physics, 1995, 63, 814-817.	0.7	15
21	Removing the Mystery of Entropy and Thermodynamics " Part II. Physics Teacher, 2012, 50, 87-90.	0.3	15
22	Proof of the Third Law of Thermodynamics for Ising Ferromagnets. Physical Review A, 1970, 2, 2368-2370.	2.5	14
23	The Mayer-Joule Principle: The Foundation of the First Law of Thermodynamics. Physics Teacher, 2011, 49, 484-487.	0.3	13
24	Reversible and irreversible heat engine and refrigerator cycles. American Journal of Physics, 2018, 86, 344-353.	0.7	13
25	"Counterrevolutionary" physics. American Journal of Physics, 1986, 54, 776-776.	0.7	12
26	Entropy Differences between Ideal and Nonideal Systems. American Journal of Physics, 1969, 37, 548-553.	0.7	11
27	Resolution of an entropy maximization controversy. American Journal of Physics, 1979, 47, 385-386.	0.7	11
28	Maxwell's demon, power, and time. American Journal of Physics, 1990, 58, 135-142.	0.7	11
29	Removing the Mystery of Entropy and Thermodynamics " Part IV. Physics Teacher, 2012, 50, 215-217.	0.3	10
30	Systematic Characterization of mth-Order Energy-Level Spacing Distributions. Journal of Mathematical Physics, 1964, 5, 756-762.	1.1	9
31	Thermodynamic insights from a one-particle gas. American Journal of Physics, 1995, 63, 895-905.	0.7	9
32	Removing the Mystery of Entropy and Thermodynamics " Part III. Physics Teacher, 2012, 50, 170-172.	0.3	9
33	Asymptotic Densities in Statistical Ensembles. Physical Review, 1964, 136, A355-A361.	2.7	8
34	Statistical Thermodynamics of Incompletely Specified Systems. Journal of Chemical Physics, 1964, 41, 596-599.	3.0	7
35	Fluctuations in particle number for a photon gas. American Journal of Physics, 2015, 83, 362-365.	0.7	7
36	The Boltzmann reservoir: A model constant-temperature environment. American Journal of Physics, 2000, 68, 521-524.	0.7	6

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37	Heat engines and the performance of external work. American Journal of Physics, 1978, 46, 218-224.	0.7	5
38	Translational Invariance Properties of a One-dimensional Fluid with Forces of Finite Extent. Journal of Mathematical Physics, 1967, 8, 434-442.	1.1	4
39	Acceleration for circular motion. American Journal of Physics, 2002, 70, 490-492.	0.7	4
40	Thermodynamics Is Easy – I've Learned It Many Times. Physics Teacher, 2007, 45, 71-72.	0.3	4
41	Thermodynamics of combined-cycle electric power plants. American Journal of Physics, 2012, 80, 515-518.	0.7	4
42	On the Connections between Thermodynamics and Statistical Mechanics. American Journal of Physics, 1969, 37, 65-67.	0.7	3
43	Thermodynamics of Systems with Internal Adiabatic Constraints. American Journal of Physics, 1970, 38, 546-547.	0.7	3
44	Entropy changes in real gases and liquids. American Journal of Physics, 1975, 43, 1098-1100.	0.7	3
45	Kerosene vs. Electric Portable Heaters: The Question of Risk. Environment, 1984, 26, 31-36.	1.4	3
46	Conveyor-belt problem can be a slippery one. Physics Teacher, 1987, 25, 483-483.	0.3	3
47	Thermodynamics of Crawford's energy equipartition journeys. American Journal of Physics, 1994, 62, 120-129.	0.7	3
48	Melding Two Approaches to Entropy. Journal of Chemical Education, 2010, 87, 143-143.	2.3	3
49	A constant-magnetization ensemble for the classical anisotropic Heisenberg model. Journal of Statistical Physics, 1972, 6, 133-155.	1.2	2
50	An exact solution to the classical, anisotropic Heisenberg model with long-range Kac interactions. Journal of Statistical Physics, 1974, 10, 205-235.	1.2	2
51	Multisystem temperature equilibration and the second law. American Journal of Physics, 1977, 45, 252-254.	0.7	1
52	Isothermal heating: purist and utilitarian views. European Journal of Physics, 2018, 39, 045103.	0.6	1
53	Difference-Equation Solutions for the Linear Ising Model and Nearest-Neighbor Fluid. American Journal of Physics, 1968, 36, 591-598.	0.7	0
54	A reminder for us all. Physics Teacher, 1996, 34, 134-134.	0.3	0

#	ARTICLE	IF	CITATIONS
55	The American Association of Physics Teachers: Citations for Distinguished Service, 2008. American Journal of Physics, 2008, 76, 702-703.	0.7	0