Peter Talkner

List of Publications by Year
in descending order

36 papers	8,930 citations	218677 26 h-index	330143 37 g-index
37 all docs	37 docs citations	37 times ranked	5240 citing authors

#	Article	IF	Citations
1	Reaction-rate theory: fifty years after Kramers. Reviews of Modern Physics, 1990, 62, 251-341.	45.6	5,326
2	Colloquium: Quantum fluctuation relations: Foundations and applications. Reviews of Modern Physics, 2011, 83, 771-791.	45.6	991
3	Fluctuation theorems: Work is not an observable. Physical Review E, 2007, 75, 050102.	2.1	560
4	Fluctuation Theorem for Arbitrary Open Quantum Systems. Physical Review Letters, 2009, 102, 210401.	7.8	273
5	Quantum theory of the damped harmonic oscillator. European Physical Journal B, 1984, 55, 87-94.	1.5	227
6	Aspects of quantum work. Physical Review E, 2016, 93, 022131.	2.1	147
7	The Tasakiâ€"Crooks quantum fluctuation theorem. Journal of Physics A: Mathematical and Theoretical, 2007, 40, F569-F571.	2.1	122
8	Finite quantum dissipation: the challenge of obtaining specific heat. New Journal of Physics, 2008, 10, 115008.	2.9	116
9	Fluctuation theorems in driven open quantum systems. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02025.	2.3	112
10	Fluctuation Theorems for Continuously Monitored Quantum Fluxes. Physical Review Letters, 2010, 105, 140601.	7.8	105
11	The other QFT. Nature Physics, 2015, 11, 108-110.	16.7	100
12	Colloquium : Statistical mechanics and thermodynamics at strong coupling: Quantum and classical. Reviews of Modern Physics, 2020, 92, .	45.6	92
13	Specific heat anomalies of open quantum systems. Physical Review E, 2009, 79, 061105.	2.1	85
14	Microcanonical quantum fluctuation theorems. Physical Review E, 2008, 77, 051131.	2.1	63
15	Statistics of work performed on a forced quantum oscillator. Physical Review E, 2008, 78, 011115.	2.1	55
16	Open system trajectories specify fluctuating work but not heat. Physical Review E, 2016, 94, 022143.	2.1	54
17	Measurement-driven single temperature engine. Physical Review E, 2018, 98, .	2.1	50
18	Quantum fluctuation theorems and generalized measurements during the force protocol. Physical Review E, 2014, 89, 032114.	2.1	43

#	Article	IF	Citations
19	Thermodynamics and fluctuation theorems for a strongly coupled open quantum system: an exactly solvable case. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 392002.	2.1	40
20	Statistics of work and fluctuation theorems for microcanonical initial states. New Journal of Physics, 2013, 15, 095001.	2.9	38
21	Generalized energy measurements and modified transient quantum fluctuation theorems. Physical Review E, 2014, 89, 052116.	2.1	36
22	Finite bath fluctuation theorem. Physical Review E, 2009, 80, 031145.	2.1	35
23	Quantum Bochkovâ€"Kuzovlev work fluctuation theorems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 291-306.	3.4	35
24	Quantum fluctuation theorems and power measurements. New Journal of Physics, 2015, 17, 075018.	2.9	32
25	Thermodynamic anomalies in open quantum systems: Strong coupling effects in the isotropic XY model. Chemical Physics, 2010, 375, 187-194.	1.9	28
26	Work fluctuations for Bose particles in grand canonical initial states. Physical Review E, 2012, 85, 051107.	2.1	27
27	Comparison of free-energy estimators and their dependence on dissipated work. Physical Review E, 2012, 86, 041130.	2.1	27
28	Nonequilibrium work statistics of an Aharonov-Bohm flux. Physical Review E, 2011, 84, 011138.	2.1	19
29	Transient quantum fluctuation theorems and generalized measurements. New Journal of Physics, 2014, 16, 015032.	2.9	19
30	Work distributions for random sudden quantum quenches. Physical Review E, 2017, 95, 052137.	2.1	18
31	Monitoring Quantum Otto Engines. PRX Quantum, 2021, 2, .	9.2	17
32	Work statistics of charged noninteracting fermions in slowly changing magnetic fields. Physical Review E, 2011, 83, 041119.	2.1	10
33	Generalized energy measurements and quantum work compatible with fluctuation theorems. Physical Review A, 2019, 99, .	2.5	10
34	Comment on â€œMeasurability of nonequilibrium thermodynamics in terms of the Hamiltonian of mean forceâ€. Physical Review E, 2020, 102, 066101.	2.1	9
35	Role of work in matter exchange between finite quantum systems. New Journal of Physics, 2017, 19, 093006.	2.9	4
36	Quasistatic work processes: When slowness implies certainty. Physical Review E, 2021, 104, L062102.	2.1	2