

Peter Talkner

List of Publications by Year in descending order

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36
papers

8,930
citations

218592

26
h-index

330025

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. <i>Reviews of Modern Physics</i> , 1990, 62, 251-341.	16.4	5,326
2	<i>Colloquium</i>: Quantum fluctuation relations: Foundations and applications. <i>Reviews of Modern Physics</i> , 2011, 83, 771-791.	16.4	991
3	Fluctuation theorems: Work is not an observable. <i>Physical Review E</i> , 2007, 75, 050102.	0.8	560
4	Fluctuation Theorem for Arbitrary Open Quantum Systems. <i>Physical Review Letters</i> , 2009, 102, 210401.	2.9	273
5	Quantum theory of the damped harmonic oscillator. <i>European Physical Journal B</i> , 1984, 55, 87-94.	0.6	227
6	Aspects of quantum work. <i>Physical Review E</i> , 2016, 93, 022131.	0.8	147
7	The Tasakiâ€Crooks quantum fluctuation theorem. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, F569-F571.	0.7	122
8	Finite quantum dissipation: the challenge of obtaining specific heat. <i>New Journal of Physics</i> , 2008, 10, 115008.	1.2	116
9	Fluctuation theorems in driven open quantum systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P02025.	0.9	112
10	Fluctuation Theorems for Continuously Monitored Quantum Fluxes. <i>Physical Review Letters</i> , 2010, 105, 140601.	2.9	105
11	The other QFT. <i>Nature Physics</i> , 2015, 11, 108-110.	6.5	100
12	<i>Colloquium</i> : Statistical mechanics and thermodynamics at strong coupling: Quantum and classical. <i>Reviews of Modern Physics</i> , 2020, 92, .	16.4	92
13	Specific heat anomalies of open quantum systems. <i>Physical Review E</i> , 2009, 79, 061105.	0.8	85
14	Microcanonical quantum fluctuation theorems. <i>Physical Review E</i> , 2008, 77, 051131.	0.8	63
15	Statistics of work performed on a forced quantum oscillator. <i>Physical Review E</i> , 2008, 78, 011115.	0.8	55
16	Open system trajectories specify fluctuating work but not heat. <i>Physical Review E</i> , 2016, 94, 022143.	0.8	54
17	Measurement-driven single temperature engine. <i>Physical Review E</i> , 2018, 98, .	0.8	50
18	Quantum fluctuation theorems and generalized measurements during the force protocol. <i>Physical Review E</i> , 2014, 89, 032114.	0.8	43

#	ARTICLE	IF	CITATIONS
19	Thermodynamics and fluctuation theorems for a strongly coupled open quantum system: an exactly solvable case. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 392002.	0.7	40
20	Statistics of work and fluctuation theorems for microcanonical initial states. <i>New Journal of Physics</i> , 2013, 15, 095001.	1.2	38
21	Generalized energy measurements and modified transient quantum fluctuation theorems. <i>Physical Review E</i> , 2014, 89, 052116.	0.8	36
22	Finite bath fluctuation theorem. <i>Physical Review E</i> , 2009, 80, 031145.	0.8	35
23	Quantum Bochkovâ€“Kuzovlev work fluctuation theorems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 291-306.	1.6	35
24	Quantum fluctuation theorems and power measurements. <i>New Journal of Physics</i> , 2015, 17, 075018.	1.2	32
25	Thermodynamic anomalies in open quantum systems: Strong coupling effects in the isotropic XY model. <i>Chemical Physics</i> , 2010, 375, 187-194.	0.9	28
26	Work fluctuations for Bose particles in grand canonical initial states. <i>Physical Review E</i> , 2012, 85, 051107.	0.8	27
27	Comparison of free-energy estimators and their dependence on dissipated work. <i>Physical Review E</i> , 2012, 86, 041130.	0.8	27
28	Nonequilibrium work statistics of an Aharonov-Bohm flux. <i>Physical Review E</i> , 2011, 84, 011138.	0.8	19
29	Transient quantum fluctuation theorems and generalized measurements. <i>New Journal of Physics</i> , 2014, 16, 015032.	1.2	19
30	Work distributions for random sudden quantum quenches. <i>Physical Review E</i> , 2017, 95, 052137.	0.8	18
31	Monitoring Quantum Otto Engines. <i>PRX Quantum</i> , 2021, 2, .	3.5	17
32	Work statistics of charged noninteracting fermions in slowly changing magnetic fields. <i>Physical Review E</i> , 2011, 83, 041119.	0.8	10
33	Generalized energy measurements and quantum work compatible with fluctuation theorems. <i>Physical Review A</i> , 2019, 99, .	1.0	10
34	Comment on â€œMeasurability of nonequilibrium thermodynamics in terms of the Hamiltonian of mean forceâ€œ. <i>Physical Review E</i> , 2020, 102, 066101.	0.8	9
35	Role of work in matter exchange between finite quantum systems. <i>New Journal of Physics</i> , 2017, 19, 093006.	1.2	4
36	Quasistatic work processes: When slowness implies certainty. <i>Physical Review E</i> , 2021, 104, L062102.	0.8	2