

Janet Anders

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7080825/publications.pdf>

Version: 2024-02-01

51
papers

2,402
citations

257450

24
h-index

223800

46
g-index

51
all docs

51
docs citations

51
times ranked

1760
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum thermodynamics. Contemporary Physics, 2016, 57, 545-579.	1.8	602
2	Nanoscale temperature measurements using non-equilibrium Brownian dynamics of a levitated nanosphere. Nature Nanotechnology, 2014, 9, 425-429.	31.5	223
3	Observing a quantum Maxwell demon at work. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7561-7564.	7.1	167
4	Coherence and measurement in quantum thermodynamics. Scientific Reports, 2016, 6, 22174.	3.3	140
5	Computational Power of Correlations. Physical Review Letters, 2009, 102, 050502.	7.8	131
6	Thermodynamics of discrete quantum processes. New Journal of Physics, 2013, 15, 033022.	2.9	73
7	Work Fluctuations in Slow Processes: Quantum Signatures and Optimal Control. Physical Review Letters, 2019, 123, 230603.	7.8	67
8	Thermal state entanglement in harmonic lattices. Physical Review A, 2008, 77, .	2.5	66
9	Landauer's principle in the quantum regime. Physical Review E, 2011, 83, 030102.	2.1	61
10	Ancilla-driven universal quantum computation. Physical Review A, 2010, 82, .	2.5	51
11	Quantum work statistics close to equilibrium. Physical Review Research, 2020, 2, .	3.6	44
12	Time-reversal symmetric work distributions for closed quantum dynamics in the histories framework. New Journal of Physics, 2017, 19, 062001.	2.9	43
13	Entropy production and time asymmetry in the presence of strong interactions. Physical Review E, 2017, 95, 062123.	2.1	42
14	Energy-temperature uncertainty relation in quantum thermodynamics. Nature Communications, 2018, 9, 2203.	12.8	41
15	Focus on quantum thermodynamics. New Journal of Physics, 2017, 19, 010201.	2.9	35
16	From single-shot towards general work extraction in a quantum thermodynamic framework. New Journal of Physics, 2015, 17, 085006.	2.9	34
17	Detecting entanglement with a thermometer. New Journal of Physics, 2006, 8, 140-140.	2.9	33
18	A quantum Szilard engine without heat from a thermal reservoir. New Journal of Physics, 2017, 19, 113026.	2.9	33

#	ARTICLE	IF	CITATIONS
19	Open quantum system dynamics and the mean force Gibbs state. <i>AVS Quantum Science</i> , 2022, 4, .	4.9	32
20	Thermal energies of classical and quantum damped oscillators coupled to reservoirs. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 215303.	2.1	30
21	Measurement-dependent corrections to work distributions arising from quantum coherences. <i>Physical Review A</i> , 2017, 96, .	2.5	29
22	Global Quantum Thermometry. <i>Physical Review Letters</i> , 2021, 127, 190402.	7.8	28
23	Local master equations bypass the secular approximation. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 5, 451.	0.0	27
24	Survival of entanglement in thermal states. <i>Europhysics Letters</i> , 2008, 81, 40006.	2.0	26
25	Spatial entanglement from off-diagonal long-range order in a Bose-Einstein condensate. <i>Physical Review A</i> , 2007, 76, .	2.5	25
26	Coherent fluctuation relations: from the abstract to the concrete. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 3, 124.	0.0	24
27	Quantum work in the Bohmian framework. <i>Physical Review A</i> , 2018, 97, .	2.5	23
28	A Sufficient Set of Experimentally Implementable Thermal Operations for Small Systems. <i>Physical Review X</i> , 2018, 8, .	8.9	23
29	Weak and Ultrastrong Coupling Limits of the Quantum Mean Force Gibbs State. <i>Physical Review Letters</i> , 2021, 127, 250601.	7.8	22
30	Macroscopic Entanglement and Phase Transitions. <i>Open Systems and Information Dynamics</i> , 2007, 14, 1-16.	1.2	21
31	Entanglement and separability of quantum harmonic oscillator systems at finite temperature. <i>Quantum Information and Computation</i> , 2008, 8, 245-262.	0.3	20
32	Energetic footprints of irreversibility in the quantum regime. <i>Communications Physics</i> , 2020, 3, .	5.3	19
33	Cavity-altered thermal isomerization rates and dynamical resonant localization in vibro-polaritonic chemistry. <i>Journal of Chemical Physics</i> , 2022, 156, 154305.	3.0	19
34	Twisted Graph States for Ancilla-driven Universal Quantum Computation. <i>Electronic Notes in Theoretical Computer Science</i> , 2009, 249, 307-331.	0.9	17
35	Bell-inequality test for spatial-mode entanglement of a single massive particle. <i>Physical Review A</i> , 2009, 80, .	2.5	15
36	Quantum Brownian motion for magnets. <i>New Journal of Physics</i> , 2022, 24, 033020.	2.9	15

#	ARTICLE	IF	CITATIONS
37	Enhanced Energy Transfer to an Optomechanical Piston from Indistinguishable Photons. <i>Physical Review Letters</i> , 2020, 124, 210601.	7.8	13
38	Comparing Transient Oligonucleotide Hybridization Kinetics Using DNA-PAINT and Optoplasmonic Single-Molecule Sensing on Gold Nanorods. <i>ACS Photonics</i> , 2021, 8, 2882-2888.	6.6	13
39	Thermodynamics and optimal protocols of multidimensional quadratic Brownian systems. <i>Journal of Physics Communications</i> , 0, , .	1.2	11
40	Entanglement at the quantum phase transition in a harmonic lattice. <i>New Journal of Physics</i> , 2010, 12, 025017.	2.9	10
41	Leggett-Garg Inequalities for Quantum Fluctuating Work. <i>Entropy</i> , 2018, 20, 200.	2.2	10
42	How Much of One-Way Computation Is Just Thermodynamics?. <i>Foundations of Physics</i> , 2008, 38, 506-522.	1.3	9
43	Quantum correlation of light scattered by disordered media. <i>Optics Express</i> , 2016, 24, 4662.	3.4	8
44	A qualitative quantum rate model for hydrogen transfer in soybean lipoxygenase. <i>Journal of Chemical Physics</i> , 2017, 147, 114108.	3.0	6
45	Increasing complexity with quantum physics. <i>Chaos</i> , 2011, 21, 037102.	2.5	5
46	Adiabatic graph-state quantum computation. <i>New Journal of Physics</i> , 2014, 16, 113070.	2.9	5
47	Contributions to single-shot energy exchanges in open quantum systems. <i>Physical Review E</i> , 2019, 99, 062131.	2.1	3
48	Gibbs mixing of partially distinguishable photons with a polarising beamsplitter membrane. <i>New Journal of Physics</i> , 2020, 22, 113015.	2.9	3
49	Measurement Based Quantum Computation on Fractal Lattices. <i>Electronic Proceedings in Theoretical Computer Science</i> , EPTCS, 0, 26, 109-115.	0.8	3
50	Topological features of good resources for measurement-based quantum computation. <i>Mathematical Structures in Computer Science</i> , 2013, 23, 441-453.	0.6	2
51	ThermodynamicsS. Klein and G. Nellis Cambridge University Press, The Edinburgh Building, Cambridge, CB2 8RU, UK. 2012. 1072pp. Illustrated. £79. ISBN 978-0-521-19570-6.. <i>Aeronautical Journal</i> , 2015, 119, 250-251. 1.6		0