Nicole Yunger Halpern

List of Publications by Year
in descending order

24	1,027	471509 17	580821 25
papers	citations	h-index	g-index

25	25	25	987
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The resource theory of informational nonequilibrium in thermodynamics. Physics Reports, 2015, 583, 1-58.	25.6	269
2	Jarzynski-like equality for the out-of-time-ordered correlator. Physical Review A, 2017, 95, .	2.5	88
3	Microcanonical and resource-theoretic derivations of the thermal state of a quantum system with noncommuting charges. Nature Communications, 2016, 7, 12051.	12.8	87
4	Parity Anomaly and Landau-Level Lasing in Strained Photonic Honeycomb Lattices. Physical Review Letters, 2013, 110, 013903.	7.8	62
5	Quantum advantage in postselected metrology. Nature Communications, 2020, 11, 3775.	12.8	59
6	Beyond heat baths: Generalized resource theories for small-scale thermodynamics. Physical Review E, 2016, 93, 022126.	2.1	57
7	Linear growth of quantum circuit complexity. Nature Physics, 2022, 18, 528-532.	16.7	50
8	Introducing one-shot work into fluctuation relations. New Journal of Physics, 2015, 17, 095003.	2.9	48
9	Resilience of scrambling measurements. Physical Review A, 2018, 97, .	2.5	40
10	Beyond heat baths II: framework for generalized thermodynamic resource theories. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 094001.	2.1	28
11	Number of trials required to estimate a free-energy difference, using fluctuation relations. Physical Review E, 2016, 93, 052144.	2.1	26
12	Quantum voting and violation of Arrow's impossibility theorem. Physical Review A, 2017, 95, .	2.5	23
13	Noncommuting conserved charges in quantum many-body thermalization. Physical Review E, 2020, 101, 042117.	2.1	23
14	Entangled quantum cellular automata, physical complexity, and Goldilocks rules. Quantum Science and Technology, 2021, 6, 045017.	5.8	22
15	Entropic uncertainty relations for quantum information scrambling. Communications Physics, 2019, 2, .	5.3	20
16	Conditions tighter than noncommutation needed for nonclassicality. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 284001.	2.1	19
17	Negative Quasiprobabilities Enhance Phase Estimation in Quantum-Optics Experiment. Physical Review Letters, 2022, 128, .	7.8	19
18	Weak Measurement of a Superconducting Qubit Reconciles Incompatible Operators. Physical Review Letters, 2021, 126, 100403.	7.8	18

#	Article	IF	Citations
19	Fundamental limitations on photoisomerization from thermodynamic resource theories. Physical Review A, 2020, 101, .	2.5	16
20	Quantum information in the Posner model of quantum cognition. Annals of Physics, 2019, 407, 92-147.	2.8	15
21	Entropic equality for worst-case work at any protocol speed. New Journal of Physics, 2017, 19, 043013.	2.9	12
22	How to build Hamiltonians that transport noncommuting charges in quantum thermodynamics. Npj Quantum Information, 2022, 8, .	6.7	10
23	Machine learning outperforms thermodynamics in measuring how well a many-body system learns a drive. Scientific Reports, 2021, 11, 9333.	3.3	8
24	Nonlinear Bell inequality for macroscopic measurements. Physical Review A, 2021, 103, .	2.5	4