

Alexia Auffves

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25
papers

524
citations

11
h-index

22
g-index

32
ext. papers

808
ext. citations

5.1
avg. IF

4.47
L-index

#	Paper	IF	Citations
25	Efficiently fueling a quantum engine with incompatible measurements.. <i>Physical Review E</i> , 2022 , 105, 044137	2.4	1
24	Two-Qubit Engine Fueled by Entanglement and Local Measurements. <i>Physical Review Letters</i> , 2021 , 126, 120605	7.4	11
23	Optimiser la consommation énergétique des calculateurs quantiques : un défi interdisciplinaire 2021 , 16-20	0.1	
22	Inducing micromechanical motion by optical excitation of a single quantum dot. <i>Nature Nanotechnology</i> , 2021 , 16, 283-287	28.7	6
21	Probing nonclassical light fields with energetic witnesses in waveguide quantum electrodynamics. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
20	The Energetic Cost of Work Extraction. <i>Physical Review Letters</i> , 2020 , 124, 130601	7.4	22
19	Autonomous Maxwell's demon in a cavity QED system. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
18	Deriving Born's Rule from an Inference to the Best Explanation. <i>Foundations of Physics</i> , 2020 , 50, 1781-1793		4
17	Thermodynamics of optical Bloch equations. <i>New Journal of Physics</i> , 2020 , 22, 103039	2.9	8
16	Quantum measurement engines and their relevance for quantum interpretations. <i>Quantum Studies: Mathematics and Foundations</i> , 2020 , 7, 203-215	0.6	7
15	Probing the State of a Mechanical Oscillator with an Ultrastrongly Coupled Quantum Emitter. <i>Physical Review Letters</i> , 2019 , 122, 013602	7.4	1
14	A Generic Model for Quantum Measurements. <i>Entropy</i> , 2019 , 21, 904	2.8	4
13	An autonomous quantum machine to measure the thermodynamic arrow of time. <i>Npj Quantum Information</i> , 2018 , 4,	8.6	13
12	Extracontextuality and extravalence in quantum mechanics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	13
11	What is quantum in quantum randomness?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	16
10	Recovering the quantum formalism from physically realist axioms. <i>Scientific Reports</i> , 2017 , 7, 43365	4.9	12
9	The role of quantum measurement in stochastic thermodynamics. <i>Npj Quantum Information</i> , 2017 , 3,	8.6	101

8	Observing a quantum Maxwell demon at work. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7561-7564	11.5	113
7	Extracting Work from Quantum Measurement in Maxwell's Demon Engines. <i>Physical Review Letters</i> , 2017 , 118, 260603	7.4	84
6	Violation of Bell's inequalities in a quantum realistic framework. <i>International Journal of Quantum Information</i> , 2016 , 14, 1640002	0.8	12
5	Contexts, Systems and Modalities: A New Ontology for Quantum Mechanics. <i>Foundations of Physics</i> , 2016 , 46, 121-137	1.2	50
4	Classical selection and quantum Darwinism. <i>Physics Today</i> , 2015 , 68, 8-8	0.9	7
3	Reversible work extraction in a hybrid opto-mechanical system. <i>New Journal of Physics</i> , 2015 , 17, 055018	2.9	24
2	Single-shot energetic-based estimator for entanglement in a half-parity measurement setup. <i>Quantum - the Open Journal for Quantum Science</i> , 3 , 166		3
1	A short story of quantum and information thermodynamics. <i>SciPost Physics Lecture Notes</i> ,		2