

Alexia Auffves

List of Publications by Citations

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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	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
24	The role of quantum measurement in stochastic thermodynamics. <i>Npj Quantum Information</i> , 2017 , 3,	8.6	101
23	Extracting Work from Quantum Measurement in Maxwell's Demon Engines. <i>Physical Review Letters</i> , 2017 , 118, 260603	7.4	84
22	Contexts, Systems and Modalities: A New Ontology for Quantum Mechanics. <i>Foundations of Physics</i> , 2016 , 46, 121-137	1.2	50
21	Reversible work extraction in a hybrid opto-mechanical system. <i>New Journal of Physics</i> , 2015 , 17, 055018	2.9	24
20	The Energetic Cost of Work Extraction. <i>Physical Review Letters</i> , 2020 , 124, 130601	7.4	22
19	What is quantum in quantum randomness?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	16
18	An autonomous quantum machine to measure the thermodynamic arrow of time. <i>Npj Quantum Information</i> , 2018 , 4,	8.6	13
17	Extracontextuality and extravalence in quantum mechanics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	13
16	Recovering the quantum formalism from physically realist axioms. <i>Scientific Reports</i> , 2017 , 7, 43365	4.9	12
15	Violation of Bell's inequalities in a quantum realistic framework. <i>International Journal of Quantum Information</i> , 2016 , 14, 1640002	0.8	12
14	Two-Qubit Engine Fueled by Entanglement and Local Measurements. <i>Physical Review Letters</i> , 2021 , 126, 120605	7.4	11
13	Thermodynamics of optical Bloch equations. <i>New Journal of Physics</i> , 2020 , 22, 103039	2.9	8
12	Classical selection and quantum Darwinism. <i>Physics Today</i> , 2015 , 68, 8-8	0.9	7
11	Quantum measurement engines and their relevance for quantum interpretations. <i>Quantum Studies: Mathematics and Foundations</i> , 2020 , 7, 203-215	0.6	7
10	Inducing micromechanical motion by optical excitation of a single quantum dot. <i>Nature Nanotechnology</i> , 2021 , 16, 283-287	28.7	6
9	Autonomous Maxwell's demon in a cavity QED system. <i>Physical Review Research</i> , 2020 , 2,	3.9	4

8	Deriving Born's Rule from an Inference to the Best Explanation. <i>Foundations of Physics</i> , 2020 , 50, 1781-1793		4
7	A Generic Model for Quantum Measurements. <i>Entropy</i> , 2019 , 21, 904	2.8	4
6	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
5	A short story of quantum and information thermodynamics. <i>SciPost Physics Lecture Notes</i> ,		2
4	Probing nonclassical light fields with energetic witnesses in waveguide quantum electrodynamics. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
3	Probing the State of a Mechanical Oscillator with an Ultrastrongly Coupled Quantum Emitter. <i>Physical Review Letters</i> , 2019 , 122, 013602	7.4	1
2	Efficiently fueling a quantum engine with incompatible measurements.. <i>Physical Review E</i> , 2022 , 105, 044137	2.4	1
1	Optimiser la consommation énergétique des calculateurs quantiques : un défi interdisciplinaire 2021 , 16-20	0.1	