

Stefan Nimmrichter

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,272
citations

279798

23
h-index

302126

39
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48
all docs

48
docs citations

48
times ranked

1504
citing authors

#	ARTICLE	IF	CITATIONS
1	Squeezed comb states. <i>Physical Review A</i> , 2021, 103, .	2.5	9
2	Quantum Speed-Up in Collisional Battery Charging. <i>Physical Review Letters</i> , 2021, 127, 100601.	7.8	37
3	Uninformed Bayesian quantum thermometry. <i>Physical Review A</i> , 2021, 104, .	2.5	10
4	Maxwell's Lesser Demon: A Quantum Engine Driven by Pointer Measurements. <i>Physical Review Letters</i> , 2020, 124, 100603.	7.8	22
5	Quantum-classical hypothesis tests in macroscopic matter-wave interferometry. <i>Physical Review Research</i> , 2020, 2, .	3.6	15
6	Almost thermal operations: Inhomogeneous reservoirs. <i>Physical Review A</i> , 2019, 100, .	2.5	4
7	Collisional Quantum Thermometry. <i>Physical Review Letters</i> , 2019, 123, 180602.	7.8	56
8	Macroscopicity of quantum mechanical superposition tests via hypothesis falsification. <i>Physical Review A</i> , 2019, 100, .	2.5	16
9	Quantum absorption refrigerator with trapped ions. <i>Nature Communications</i> , 2019, 10, 202.	12.8	157
10	Full-field cavity enhanced microscopy techniques. <i>JPhys Photonics</i> , 2019, 1, 015007.	4.6	5
11	Nonequilibrium dynamics with finite-time repeated interactions. <i>Physical Review E</i> , 2019, 99, 042103.	2.1	38
12	Quantum gears from planar rotors. <i>Physical Review E</i> , 2019, 99, 042202.	2.1	4
13	Quantum Rotor Engines. <i>Fundamental Theories of Physics</i> , 2018, , 227-245.	0.3	0
14	Work production of quantum rotor engines. <i>New Journal of Physics</i> , 2018, 20, 043045.	2.9	40
15	Refrigeration beyond weak internal coupling. <i>Physical Review E</i> , 2018, 98, 012131.	2.1	43
16	An autonomous single-piston engine with a quantum rotor. <i>Quantum Science and Technology</i> , 2018, 3, 035008.	5.8	17
17	Autonomous rotor heat engine. <i>Physical Review E</i> , 2017, 95, 062131.	2.1	59
18	Sensing spontaneous collapse and decoherence with interfering Bose-Einstein condensates. <i>Quantum Science and Technology</i> , 2017, 2, 044010.	5.8	5

#	ARTICLE	IF	CITATIONS
19	Rotranslational cavity cooling of dielectric rods and disks. <i>Physical Review A</i> , 2016, 94, .	2.5	48
20	Impact of Casimir-Polder interaction on Poisson-spot diffraction at a dielectric sphere. <i>Physical Review A</i> , 2016, 94, .	2.5	14
21	Multiphoton absorption in optical gratings for matter waves. <i>Physical Review A</i> , 2016, 94, .	2.5	3
22	Coherence in the presence of absorption and heating in a molecule interferometer. <i>Nature Communications</i> , 2015, 6, 7336.	12.8	16
23	Stochastic extensions of the regularized Schrödinger-Newton equation. <i>Physical Review D</i> , 2015, 91, .	4.7	18
24	Cavity-Assisted Manipulation of Freely Rotating Silicon Nanorods in High Vacuum. <i>Nano Letters</i> , 2015, 15, 5604-5608.	9.1	62
25	Macroscopic Matter Wave Interferometry. Springer Theses, 2014, , .	0.1	21
26	Near-field interferometry of a free-falling nanoparticle from a point-like source. <i>Nature Communications</i> , 2014, 5, 4788.	12.8	158
27	Optomechanical Sensing of Spontaneous Wave-Function Collapse. <i>Physical Review Letters</i> , 2014, 113, 020405.	7.8	114
28	Near-Field Interference Techniques with Heavy Molecules and Nanoclusters. Springer Theses, 2014, , 85-159.	0.1	0
29	Classicalization and the Macroscopicity of Quantum Superposition States. Springer Theses, 2014, , 161-238.	0.1	0
30	Interaction of Polarizable Particles with Light. Springer Theses, 2014, , 9-83.	0.1	0
31	A universal matter-wave interferometer with optical ionization gratings in the time domain. <i>Nature Physics</i> , 2013, 9, 144-148.	16.7	88
32	Macroscopicity of Mechanical Quantum Superposition States. <i>Physical Review Letters</i> , 2013, 110, 160403.	7.8	145
33	Cavity cooling of free silicon nanoparticles in high vacuum. <i>Nature Communications</i> , 2013, 4, 2743.	12.8	117
34	Wann ist Schrödingers Katze wirklich tot?. <i>Physik in Unserer Zeit</i> , 2013, 44, 214-215.	0.0	0
35	<i>Colloquium</i>: Quantum interference of clusters and molecules. <i>Reviews of Modern Physics</i> , 2012, 84, 157-173.	45.6	288
36	New Prospects for de Broglie Interferometry. <i>Foundations of Physics</i> , 2012, 42, 98-110.	1.3	23

#	ARTICLE	IF	CITATIONS
37	Quantum interference of large organic molecules. Nature Communications, 2011, 2, 263.	12.8	285
38	Concept of an ionizing time-domain matter-wave interferometer. New Journal of Physics, 2011, 13, 075002.	2.9	38
39	Testing spontaneous localization theories with matter-wave interferometry. Physical Review A, 2011, 83, .	2.5	82
40	Matter wave interferometry: Exploring the importance of the internal molecular properties. , 2011, , .		0
41	Influence of conformational molecular dynamics on matter wave interferometry. Physical Review A, 2010, 81, .	2.5	33
42	Master equation for the motion of a polarizable particle in a multimode cavity. New Journal of Physics, 2010, 12, 083003.	2.9	30
43	Theory and experimental verification of Kapitzaâ€“Diracâ€“Talbotâ€“Lau interferometry. New Journal of Physics, 2009, 11, 043032.	2.9	74
44	Absolute absorption spectroscopy based on molecule interferometry. Physical Review A, 2008, 78, .	2.5	18
45	Theory of near-field matter-wave interference beyond the eikonal approximation. Physical Review A, 2008, 78, .	2.5	37
46	Quantum and classical dynamics of a three-mode absorption refrigerator. Quantum - the Open Journal for Quantum Science, 0, 1, 37.	0.0	23