

Marko ToroÅ¡

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,005
citations

623734

14
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

655
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin Entanglement Witness for Quantum Gravity. <i>Physical Review Letters</i> , 2017, 119, 240401.	7.8	415
2	Force sensing with an optically levitated charged nanoparticle. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	94
3	Precession Motion in Levitated Optomechanics. <i>Physical Review Letters</i> , 2018, 121, 253601.	7.8	53
4	Mechanism for the quantum natured gravitons to entangle masses. <i>Physical Review D</i> , 2022, 105, .	4.7	41
5	Ultrarrow-linewidth levitated nano-oscillator for testing dissipative wave-function collapse. <i>Physical Review Research</i> , 2020, 2, .	3.6	39
6	Colored and dissipative continuous spontaneous localization model and bounds from matter-wave interferometry. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 3921-3927.	2.1	38
7	Testing collapse models with levitated nanoparticles: Detection challenge. <i>Physical Review A</i> , 2019, 100, .	2.5	36
8	Real-time Kalman filter: Cooling of an optically levitated nanoparticle. <i>Physical Review A</i> , 2018, 97, .	2.5	35
9	Bounds on quantum collapse models from matter-wave interferometry: calculational details. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 115302.	2.1	34
10	Photon Bunching in a Rotating Reference Frame. <i>Physical Review Letters</i> , 2019, 123, 110401.	7.8	30
11	Relative acceleration noise mitigation for nanocrystal matter-wave interferometry: Applications to entangling masses via quantum gravity. <i>Physical Review Research</i> , 2021, 3, .	3.6	29
12	Quantum sensing and cooling in three-dimensional levitated cavity optomechanics. <i>Physical Review Research</i> , 2020, 2, .	3.6	23
13	Gravity induced wave function collapse. <i>Physical Review D</i> , 2017, 96, .	4.7	21
14	Coherent-scattering two-dimensional cooling in levitated cavity optomechanics. <i>Physical Review Research</i> , 2021, 3, .	3.6	18
15	Revealing and concealing entanglement with noninertial motion. <i>Physical Review A</i> , 2020, 101, .	2.5	15
16	Wigner Function Reconstruction in Levitated Optomechanics. <i>Quantum Measurements and Quantum Metrology</i> , 2017, 4, .	3.3	14
17	Dynamical model selection near the quantum-classical boundary. <i>Physical Review A</i> , 2018, 98, .	2.5	13
18	Testing dissipative collapse models with a levitated micromagnet. <i>Physical Review Research</i> , 2020, 2, .	3.6	13

#	ARTICLE	IF	CITATIONS
19	Detection of anisotropic particles in levitated optomechanics. <i>Physical Review A</i> , 2018, 98, .	2.5	8
20	Optimal control for feedback cooling in cavityless levitated optomechanics. <i>New Journal of Physics</i> , 2019, 21, 073019.	2.9	8
21	Static force characterization with Fano anti-resonance in levitated optomechanics. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	8
22	Bohmian mechanics, collapse models and the emergence of classicality. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 355302.	2.1	6
23	General Galilei Covariant Gaussian Maps. <i>Physical Review Letters</i> , 2017, 119, 100403.	7.8	4
24	Creating atom-nanoparticle quantum superpositions. <i>Physical Review Research</i> , 2021, 3, .	3.6	4
25	Gravitons in a box. <i>Physical Review D</i> , 2021, 104, .	4.7	4
26	Infrared scaling for a graviton condensate. <i>Nuclear Physics B</i> , 2022, 977, 115730.	2.5	2