Dennis RÃ¤tzel

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8833665/publications.pdf

Version: 2024-02-01

23	249	932766 10	996533 15
papers	citations	h-index	g-index

24	24	24	160
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Geometry of physical dispersion relations. Physical Review D, 2011, 83, .	1.6	51
2	Optimal estimation with quantum optomechanical systems in the nonlinear regime. Physical Review A, 2020, 101, .	1.0	21
3	Gravitational properties of lightâ€"the gravitational field of a laser pulse. New Journal of Physics, 2016, 18, 023009.	1.2	20
4	Time-evolution of nonlinear optomechanical systems: interplay of mechanical squeezing and non-Gaussianity. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 075304.	0.7	18
5	Effect of polarization entanglement in photon-photon scattering. Physical Review A, 2017, 95, .	1.0	13
6	Dynamical response of Boseâ€"Einstein condensates to oscillating gravitational fields. New Journal of Physics, 2018, 20, 073044.	1.2	13
7	Enhanced continuous generation of non-Gaussianity through optomechanical modulation. New Journal of Physics, 2019, 21, 055004.	1.2	13
8	Optimal estimation of time-dependent gravitational fields with quantum optomechanical systems. Physical Review Research, 2021, 3, .	1.3	13
9	Controlling quantum systems with modulated electron beams. Physical Review Research, 2021, 3, .	1.3	13
10	Analogue simulation of gravitational waves in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>3</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:math> -dimensional Bose-Einstein condensate. Physical Review D, 2018, 98, .	1.6	12
11	Frequency spectrum of an optical resonator in a curved spacetime. New Journal of Physics, 2018, 20, 053046.	1.2	11
12	Decay of quantum sensitivity due to three-body loss in Bose-Einstein condensates. Physical Review A, 2021, 103, .	1.0	7
13	Quantum field theory on timelike hypersurfaces in Rindler space. Physical Review D, 2013, 87, .	1.6	6
14	The gravitational field of a laser beam beyond the short wavelength approximation. Classical and Quantum Gravity, 2018, 35, 195007.	1.5	6
15	The effect of entanglement in gravitational photon-photon scattering. Europhysics Letters, 2016, 115, 51002.	0.7	5
16	Testing small scale gravitational wave detectors with dynamical mass distributions. Journal of Physics Communications, 2019, 3, 025009.	0.5	5
17	Constraining modified gravity with quantum optomechanics. New Journal of Physics, 2022, 24, 033009.	1.2	5
18	Perspectives of measuring gravitational effects of laser light and particle beams. New Journal of Physics, 2022, 24, 053021.	1.2	5

#	Article	IF	Citations
19	Gravitational properties of light: The emission of counter-propagating laser pulses from an atom. Physical Review D, 2017, 95, .	1.6	3
20	Rotation of polarization in the gravitational field of a laser beamâ€”Faraday effect and optical activity. Classical and Quantum Gravity, 2019, 36, 205007.	1.5	3
21	The Unruhâ€“DeWitt detector and the vacuum in the general boundary formalism. Classical and Quantum Gravity, 2013, 30, 235026.	1.5	1
22	Influence of cosmological expansion in local experiments. Classical and Quantum Gravity, 2022, 39, 055005.	1.5	1
23	Modulated light potentials for state manipulation of quasiparticles in ultra-cold Bose gases. New Journal of Physics, 0, , .	1.2	1