

Dennis Rätzel

List of Publications by Year in descending order

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

Version: 2024-02-01

23
papers

249
citations

932766

10
h-index

996533

15
g-index

24
all docs

24
docs citations

24
times ranked

160
citing authors

#	ARTICLE	IF	CITATIONS
1	Constraining modified gravity with quantum optomechanics. <i>New Journal of Physics</i> , 2022, 24, 033009.	1.2	5
2	Influence of cosmological expansion in local experiments. <i>Classical and Quantum Gravity</i> , 2022, 39, 055005.	1.5	1
3	Perspectives of measuring gravitational effects of laser light and particle beams. <i>New Journal of Physics</i> , 2022, 24, 053021.	1.2	5
4	Optimal estimation of time-dependent gravitational fields with quantum optomechanical systems. <i>Physical Review Research</i> , 2021, 3, .	1.3	13
5	Decay of quantum sensitivity due to three-body loss in Bose-Einstein condensates. <i>Physical Review A</i> , 2021, 103, .	1.0	7
6	Controlling quantum systems with modulated electron beams. <i>Physical Review Research</i> , 2021, 3, .	1.3	13
7	Optimal estimation with quantum optomechanical systems in the nonlinear regime. <i>Physical Review A</i> , 2020, 101, .	1.0	21
8	Time-evolution of nonlinear optomechanical systems: interplay of mechanical squeezing and non-Gaussianity. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 075304.	0.7	18
9	Rotation of polarization in the gravitational field of a laser beam—Faraday effect and optical activity. <i>Classical and Quantum Gravity</i> , 2019, 36, 205007.	1.5	3
10	Testing small scale gravitational wave detectors with dynamical mass distributions. <i>Journal of Physics Communications</i> , 2019, 3, 025009.	0.5	5
11	Enhanced continuous generation of non-Gaussianity through optomechanical modulation. <i>New Journal of Physics</i> , 2019, 21, 055004.	1.2	13
12	Frequency spectrum of an optical resonator in a curved spacetime. <i>New Journal of Physics</i> , 2018, 20, 053046.	1.2	11
13	The gravitational field of a laser beam beyond the short wavelength approximation. <i>Classical and Quantum Gravity</i> , 2018, 35, 195007.	1.5	6
14	Dynamical response of Bose—Einstein condensates to oscillating gravitational fields. <i>New Journal of Physics</i> , 2018, 20, 073044.	1.2	13
15	Analogue simulation of gravitational waves in a $3+1$ -dimensional Bose-Einstein condensate. <i>Physical Review D</i> , 2018, 98, .	1.6	12
16	Effect of polarization entanglement in photon-photon scattering. <i>Physical Review A</i> , 2017, 95, .	1.0	13
17	Gravitational properties of light: The emission of counter-propagating laser pulses from an atom. <i>Physical Review D</i> , 2017, 95, .	1.6	3
18	Gravitational properties of light—the gravitational field of a laser pulse. <i>New Journal of Physics</i> , 2016, 18, 023009.	1.2	20

#	ARTICLE	IF	CITATIONS
19	The effect of entanglement in gravitational photon-photon scattering. Europhysics Letters, 2016, 115, 51002.	0.7	5
20	Quantum field theory on timelike hypersurfaces in Rindler space. Physical Review D, 2013, 87, .	1.6	6
21	The Unruhâ€DeWitt detector and the vacuum in the general boundary formalism. Classical and Quantum Gravity, 2013, 30, 235026.	1.5	1
22	Geometry of physical dispersion relations. Physical Review D, 2011, 83, .	1.6	51
23	Modulated light potentials for state manipulation of quasiparticles in ultra-cold Bose gases. New Journal of Physics, 0, , .	1.2	1