

Albert Roura

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,378
citations

430874

18
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

1053
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum probe of space-time curvature. <i>Science</i> , 2022, 375, 142-143.	12.6	6
2	Bragg-diffraction-induced imperfections of the signal in retroreflective atom interferometers. <i>Physical Review A</i> , 2022, 105, .	2.5	3
3	The Bose-Einstein Condensate and Cold Atom Laboratory. <i>EPJ Quantum Technology</i> , 2021, 8, .	6.3	85
4	Exploring the foundations of the physical universe with space tests of the equivalence principle. <i>Experimental Astronomy</i> , 2021, 51, 1695-1736.	3.7	20
5	Measuring gravitational time dilation with delocalized quantum superpositions. <i>Physical Review D</i> , 2021, 104, .	4.7	11
6	Regimes of atomic diffraction: Raman versus Bragg diffraction in retroreflective geometries. <i>Physical Review A</i> , 2020, 101, .	2.5	23
7	Gravitational Redshift in Quantum-Clock Interferometry. <i>Physical Review X</i> , 2020, 10, .	8.9	45
8	ELGARâ€™a European Laboratory for Gravitation and Atom-interferometric Research. <i>Classical and Quantum Gravity</i> , 2020, 37, 225017.	4.0	63
9	Atomic Raman scattering: Third-order diffraction in a double geometry. <i>Physical Review A</i> , 2020, 102, .	2.5	11
10	Atom-interferometric test of the universality of gravitational redshift and free fall. <i>Physical Review Research</i> , 2020, 2, .	3.6	13
11	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. <i>EPJ Quantum Technology</i> , 2020, 7, .	6.3	190
12	Specular mirror interferometer. <i>Progress in Optics</i> , 2020, 65, 173-229.	0.6	2
13	Taking atom interferometric quantum sensors from the laboratory to real-world applications. <i>Nature Reviews Physics</i> , 2019, 1, 731-739.	26.6	195
14	Interference of clocks: A quantum twin paradox. <i>Science Advances</i> , 2019, 5, eaax8966.	10.3	24
15	Proper time in atom interferometers: Diffractive versus specular mirrors. <i>Physical Review A</i> , 2019, 99, .	2.5	7
16	SAGE: A proposal for a space atomic gravity explorer. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	75
17	Roura Replies. <i>Physical Review Letters</i> , 2018, 121, 128904.	7.8	3
18	Circumventing Heisenbergâ€™s Uncertainty Principle in Atom Interferometry Tests of the Equivalence Principle. <i>Physical Review Letters</i> , 2017, 118, 160401.	7.8	83

#	ARTICLE	IF	CITATIONS
19	Macroscopic Quantum Resonators (MAQRO): 2015 update. EPJ Quantum Technology, 2016, 3, .	6.3	77
20	Representation-free description of light-pulse atom interferometry including non-inertial effects. Physics Reports, 2015, 605, 1-50.	25.6	43
21	Overcoming loss of contrast in atom interferometry due to gravity gradients. New Journal of Physics, 2014, 16, 123012.	2.9	45
22	Exact analytical solutions to the master equation of quantum Brownian motion for a general environment. Annals of Physics, 2011, 326, 1207-1258.	2.8	86
23	Fluctuations of an Evaporating Black Hole from Back Reaction of Its Hawking Radiation: Questioning a Premise in Earlier Work. International Journal of Theoretical Physics, 2007, 46, 2204-2217.	1.2	28
24	Gravitational wave detectors based on matter wave interferometers (MIGO) are no better than laser interferometers (LIGO). Physical Review D, 2006, 73, .	4.7	40
25	Stability of Semiclassical Gravity Solutions with Respect to Quantum Metric Fluctuations. International Journal of Theoretical Physics, 2004, 43, 749-766.	1.2	29
26	Nonequilibrium dynamics of optical-lattice-loaded Bose-Einstein-condensate atoms: Beyond the Hartree-Fock-Bogoliubov approximation. Physical Review A, 2004, 69, .	2.5	80
27	Activation-Like Processes at Zero Temperature. International Journal of Theoretical Physics, 2003, 42, 1257-1280.	1.2	7
28	Stochastic description for open quantum systems. Physica A: Statistical Mechanics and Its Applications, 2003, 319, 188-212.	2.6	83