Juan Polo Gomez

List of Publications by Year
in descending order

23	472	759190 12	713444 21
papers	citations	h-index	g-index

23	23	23	436
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Roadmap on Atomtronics: State of the art and perspective. AVS Quantum Science, 2021, 3, .	4.9	87
2	Blue-detuned optical ring trap for Bose-Einstein condensates based on conical refraction. Optics Express, 2015, 23, 1638.	3.4	54
3	Soliton-based matter-wave interferometer. Physical Review A, 2013, 88, .	2.5	53
4	Quantum reflection of bright solitary matter waves from a narrow attractive potential. Physical Review A, 2016, 93, .	2.5	44
5	Oscillations and Decay of Superfluid Currents in a One-Dimensional Bose Gas on a Ring. Physical Review Letters, 2019, 123, 195301.	7.8	31
6	Damping of Josephson Oscillations in Strongly Correlated One-Dimensional Atomic Gases. Physical Review Letters, 2018, 121, 090404.	7.8	30
7	Geometrically induced complex tunnelings for ultracold atoms carrying orbital angular momentum. Physical Review A, 2016, 93, .	2.5	25
8	Analysis beyond the Thomas-Fermi approximation of the density profiles of a miscible two-component Bose-Einstein condensate. Physical Review A, 2015, 91, .	2.5	20
9	Exact results for persistent currents of two bosons in a ring lattice. Physical Review A, 2020, 101, .	2.5	15
10	Rise and Fall of a Bright Soliton in an Optical Lattice. Physical Review Letters, 2019, 122, 053001.	7.8	14
11	Transport of ultracold atoms between concentric traps via spatial adiabatic passage. New Journal of Physics, 2016, 18, 015010.	2.9	14
12	Engineering of orbital angular momentum supermodes in coupled optical waveguides. Scientific Reports, 2017, 7, 44057.	3.3	13
13	Universal shock-wave propagation in one-dimensional Bose fluids. Physical Review Research, 2021, 3, .	3.6	12
14	Symmetry breaking in binary Bose-Einstein condensates in the presence of an inhomogeneous artificial gauge field. Physical Review A, 2020, 102, .	2.5	11
15	Deep-learning-based quantum vortex detection in atomic Boseâ€“Einstein condensates. Machine Learning: Science and Technology, 2021, 2, 035019.	5.0	11
16	Enhancing sensitivity to rotations with quantum solitonic currents. SciPost Physics, 2022, 12, .	4.9	10
17	Single-atom edgelike states via quantum interference. Physical Review A, 2017, 95, .	2.5	8
18	Coherent phase slips in coupled matter-wave circuits. Physical Review Research, 2022, 4, .	3.6	7

#	Article	IF	Citations
19	The quantum solitons atomtronic interference device. Quantum Science and Technology, 2022, 7, 015015.	5.8	6
20	Current production in ring condensates with a weak link. Physical Review A, 2020, 102, .	2.5	5
21	Traces of integrability in scattering of one-dimensional dimers on a barrier. New Journal of Physics, 2019, 21, 023008.	2.9	2
22	Bloch oscillations in supersolids. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	1.5	0
23	Formation of local and global currents in a toroidal Bose-Einstein condensate via an inhomogeneous artificial gauge field. Physical Review A, 2022, 105, .	2.5	0