

Wenxian Zhang

List of Publications by Year in descending order

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33
papers

1,204
citations

687220

13
h-index

434063

31
g-index

33
all docs

33
docs citations

33
times ranked

862
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent spinor dynamics in a spin-1 Bose-Einstein condensate. <i>Nature Physics</i> , 2005, 1, 111-116.	6.5	338
2	Coherent spin mixing dynamics in a spin-1 atomic condensate. <i>Physical Review A</i> , 2005, 72, .	1.0	163
3	Dynamical Instability and Domain Formation in a Spin-1 Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2005, 95, 180403.	2.9	103
4	Mean field ground state of a spin-1 condensate in a magnetic field. <i>New Journal of Physics</i> , 2003, 5, 77-77.	1.2	102
5	Hyperfine interaction induced decoherence of electron spins in quantum dots. <i>Physical Review B</i> , 2006, 74, .	1.1	73
6	Long-time electron spin storage via dynamical suppression of hyperfine-induced decoherence in a quantum dot. <i>Physical Review B</i> , 2008, 77, .	1.1	52
7	Dynamical control of electron spin coherence in a quantum dot: A theoretical study. <i>Physical Review B</i> , 2007, 75, .	1.1	49
8	Bose-Einstein condensation of trapped interacting spin-1 atoms. <i>Physical Review A</i> , 2004, 70, .	1.0	41
9	Encoding a qubit with Majorana modes in superconducting circuits. <i>Scientific Reports</i> , 2014, 4, 5535.	1.6	40
10	NMR multiple quantum coherences in quasi-one-dimensional spin systems: Comparison with ideal spin-chain dynamics. <i>Physical Review A</i> , 2009, 80, .	1.0	38
11	Physical mechanisms for the unique optical properties of chalcogen-hyperdoped silicon. <i>Europhysics Letters</i> , 2012, 99, 46005.	0.7	37
12	Heisenberg-scaled magnetometer with dipolar spin-1 condensates. <i>Physical Review A</i> , 2016, 93, .	1.0	23
13	Time-Domain Grating with a Periodically Driven Qutrit. <i>Physical Review Applied</i> , 2019, 11, .	1.5	20
14	Coherent zero-field magnetization resonance in a dipolar spin-1 Bose-Einstein condensate. <i>Physical Review A</i> , 2015, 92, .	1.0	13
15	Implementing a topological quantum model using a cavity lattice. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 1549-1556.	2.0	12
16	Efficient Generation of Many-Body Entangled States by Multilevel Oscillations. <i>Physical Review Letters</i> , 2019, 123, 073001.	2.9	12
17	Effective size of a trapped atomic Bose gas. <i>Physical Review A</i> , 2005, 72, .	1.0	11
18	Suppression of electron spin decoherence in a quantum dot. <i>Journal of Modern Optics</i> , 2007, 54, 2629-2640.	0.6	9

#	ARTICLE	IF	CITATIONS
19	Efficient generation of many-body singlet states of spin-1 bosons in optical superlattices. Physical Review A, 2017, 95, .	1.0	9
20	Manipulating dipolar and spin-exchange interactions in spin-1 Bose-Einstein condensates. Physical Review A, 2012, 85, .	1.0	8
21	High-fidelity quantum memory utilizing inhomogeneous nuclear polarization in a quantum dot. Physical Review B, 2014, 90, .	1.1	8
22	Preserving coherent spin and squeezed spin states of a spin-1 Bose-Einstein condensate with rotary echoes. Physical Review A, 2016, 94, .	1.0	8
23	Magnetic-field-induced dynamical instabilities in an antiferromagnetic spin-1 Bose-Einstein condensate. Physical Review A, 2016, 93, .	1.0	7
24	Analytical double-unitary-transformation approach for strongly and periodically driven three-level systems. Physical Review A, 2020, 101, .	1.0	7
25	Uniaxial Dynamical Decoupling for an Open Quantum System. Physical Review Letters, 2019, 122, 010408.	2.9	6
26	Rebuilding of destroyed spin squeezing in noisy environments. Scientific Reports, 2017, 7, 14102.	1.6	5
27	Quantum-memory-assisted precision rotation sensing. Physical Review A, 2020, 102, .	1.0	4
28	Localizing spin dynamics in a spin-1 Bose-Einstein condensate via magnetic pulses. Physical Review A, 2015, 92, .	1.0	2
29	Generalized parametric resonance in a spin-1 Bose-Einstein condensate. Physical Review A, 2021, 104, .	1.0	2
30	Determination of the oscillation frequency in a strongly damped dipole trap by control of spin current. Applied Physics Letters, 2021, 119, 164001.	1.5	1
31	All-optical pulse switching with a periodically driven dissipative quantum system. Optics Express, 2022, 30, 7987.	1.7	1
32	Optical-plug-assisted spin vortex in a Rb^{87} dipolar spinor Bose-Einstein condensate. Physical Review A, 2022, 105, .	1.0	0
33	Tunable quantum interference effects in Floquet two- and three-level systems. Physical Review A, 2022, 105, .	1.0	0