

Tania Monteiro

List of Publications by Year in descending order

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36
papers

1,315
citations

430874

18
h-index

377865

34
g-index

36
all docs

36
docs citations

36
times ranked

1045
citing authors

#	ARTICLE	IF	CITATIONS
1	Cavity Cooling a Single Charged Levitated Nanosphere. <i>Physical Review Letters</i> , 2015, 114, 123602.	7.8	228
2	Optomechanics with levitated particles. <i>Reports on Progress in Physics</i> , 2020, 83, 026401.	20.1	155
3	Nonlinear Dynamics and Strong Cavity Cooling of Levitated Nanoparticles. <i>Physical Review Letters</i> , 2016, 117, 173602.	7.8	119
4	Proposal for a Chaotic Ratchet Using Cold Atoms in Optical Lattices. <i>Physical Review Letters</i> , 2002, 89, 194102.	7.8	85
5	Directed Motion for Delta-Kicked Atoms with Broken Symmetries: Comparison between Theory and Experiment. <i>Physical Review Letters</i> , 2007, 98, 073002.	7.8	62
6	Theoretical analysis of super-Bloch oscillations. <i>Physical Review A</i> , 2011, 83, .	2.5	61
7	Quantum control of hybrid nuclear-electronic qubits. <i>Nature Materials</i> , 2013, 12, 103-107.	27.5	51
8	Bismuth Qubits in Silicon: The Role of EPR Cancellation Resonances. <i>Physical Review Letters</i> , 2010, 105, 067602.	7.8	49
9	Atoms in Double-Kicked Periodic Potentials: Chaos with Long-Range Correlations. <i>Physical Review Letters</i> , 2004, 93, 223002.	7.8	47
10	Dynamics of levitated nanospheres: towards the strong coupling regime. <i>New Journal of Physics</i> , 2013, 15, 015001.	2.9	45
11	Optomechanical cooling of levitated spheres with doubly resonant fields. <i>Physical Review A</i> , 2012, 85, .	2.5	40
12	Analysis of quantum coherence in bismuth-doped silicon: A system of strongly coupled spin qubits. <i>Physical Review B</i> , 2012, 85, .	3.2	33
13	Control of bound-pair transport by periodic driving. <i>Physical Review A</i> , 2009, 80, .	2.5	30
14	Quantum-bath-driven decoherence of mixed spin systems. <i>Physical Review B</i> , 2014, 89, .	3.2	30
15	Localization-Delocalization Transition in a System of Quantum Kicked Rotors. <i>Physical Review Letters</i> , 2006, 96, 024103.	7.8	27
16	Quantum sensing and cooling in three-dimensional levitated cavity optomechanics. <i>Physical Review Research</i> , 2020, 2, .	3.6	23
17	Dynamical instability in kicked Bose-Einstein condensates. <i>Physical Review A</i> , 2008, 77, .	2.5	21
18	Split-sideband spectroscopy in slowly modulated optomechanics. <i>New Journal of Physics</i> , 2016, 18, 113021.	2.9	19

#	ARTICLE	IF	CITATIONS
19	Have quantum scars been observed?. Nature, 1997, 387, 863-864.	27.8	18
20	Randomization of Pulse Phases for Unambiguous and Robust Quantum Sensing. Physical Review Letters, 2019, 122, 200403.	7.8	18
21	Coherent-scattering two-dimensional cooling in levitated cavity optomechanics. Physical Review Research, 2021, 3, .	3.6	18
22	Theory of $2\hat{\nu}$ -kicked quantum rotors. Physical Review E, 2006, 73, 066202.	2.1	17
23	Measuring central-spin interaction with a spin bath by pulsed ENDOR: Towards suppression of spin diffusion decoherence. Physical Review B, 2012, 86, .	3.2	17
24	Nonlinear Resonances in $\hat{\nu}$ -Kicked Bose-Einstein Condensates. Physical Review Letters, 2009, 102, 014102.	7.8	16
25	Decoherence of nuclear spins in the frozen core of an electron spin. Physical Review B, 2015, 91, .	3.2	14
26	Imaging Correlations in Heterodyne Spectra for Quantum Displacement Sensing. Physical Review Letters, 2018, 120, 020503.	7.8	13
27	Nonvanishing effect of detuning errors in dynamical-decoupling-based quantum sensing experiments. Physical Review A, 2019, 99, .	2.5	13
28	Fractional $\langle \hat{a} \rangle$ Scaling for Quantum Kicked Rotors without Cantori. Physical Review Letters, 2007, 99, 234101.	7.8	10
29	Quantum noise spectra for periodically driven cavity optomechanics. Physical Review A, 2017, 96, .	2.5	9
30	Quantum Bath Control with Nuclear Spin State Selectivity via Pulse-Adjusted Dynamical Decoupling. Physical Review Letters, 2019, 123, 210401.	7.8	8
31	Quantum Wells in Tilted Fields: Semiclassical Amplitudes and Phase Coherence Times. Foundations of Physics, 2001, 31, 355-370.	1.3	6
32	Keeping a spin qubit alive in natural silicon: Comparing optimal working points and dynamical decoupling. Physical Review B, 2015, 91, .	3.2	6
33	Adiabatic dynamical-decoupling-based control of nuclear spin registers. Physical Review Research, 2022, 4, .	3.6	6
34	Two-timescale stochastic Langevin propagation for classical and quantum optomechanics. Physical Review A, 2018, 98, .	2.5	1
35	Cavity cooling a trapped nanosphere in vacuum. Proceedings of SPIE, 2014, , .	0.8	0
36	Polaritons on a plane. Nature Physics, 2021, 17, 1084-1085.	16.7	0