

Francesco Bariani

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

821
citations

687363

13
h-index

940533

16
g-index

17
all docs

17
docs citations

17
times ranked

851
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Optomechanical Heat Engine. Physical Review Letters, 2014, 112, 150602.	7.8	196
2	Observation of coherent many-body Rabi oscillations. Nature Physics, 2012, 8, 790-794.	16.7	183
3	Generation of macroscopic quantum superpositions of optomechanical oscillators by dissipation. Physical Review A, 2013, 88, .	2.5	62
4	Dephasing of Multiparticle Rydberg Excitations for Fast Entanglement Generation. Physical Review Letters, 2012, 108, 030501.	7.8	58
5	Proposal for an Optomechanical Microwave Sensor at the Subphoton Level. Physical Review Letters, 2015, 114, 113601.	7.8	51
6	Theory of an optomechanical quantum heat engine. Physical Review A, 2014, 90, .	2.5	47
7	Hybrid optomechanical cooling by atomic $\hat{\rho}$ systems. Physical Review A, 2014, 90, .	2.5	45
8	Optical properties of atomic Mott insulators: From slow light to dynamical Casimir effects. Physical Review A, 2008, 77, .	2.5	36
9	Work measurement in an optomechanical quantum heat engine. Physical Review A, 2015, 92, .	2.5	27
10	Entanglement of neutral-atom chains by spin-exchange Rydberg interaction. Physical Review A, 2014, 90, .	2.5	23
11	Emergence of Spatial Spin-Wave Correlations in a Cold Atomic Gas. Physical Review Letters, 2012, 109, 133602.	7.8	20
12	Phonon Cooling by an Optomechanical Heat Pump. Physical Review Letters, 2015, 115, 223602.	7.8	18
13	Dephasing dynamics of Rydberg atom spin waves. Physical Review A, 2012, 86, .	2.5	14
14	Single-atom quantum control of macroscopic mechanical oscillators. Physical Review A, 2014, 89, .	2.5	14
15	Retrieval of multiple spin waves from a weakly excited, metastable atomic ensemble. Physical Review A, 2012, 85, .	2.5	12
16	Light propagation in atomic Mott Insulators. Journal of the European Optical Society-Rapid Publications, 0, 3, .	1.9	10
17	Photon wave-packet manipulation via dynamic electromagnetically induced transparency in multilayer structures. Physical Review A, 2010, 81, .	2.5	5