Mihai A Macovei

List of Publications by Year
in descending order

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72	783	623188 14	552369 26
papers	citations	h-index	g-index

72	72	72	387
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhancement of entanglement for two-mode fields generated from four-wave mixing with the help of the auxiliary atomic transition. Physical Review A, 2007, 76, .	1.0	84
2	Vacuum-Induced Processes in Multilevel Atoms. Progress in Optics, 2010, 55, 85-197.	0.4	80
3	Phase Control of Collective Quantum Dynamics. Physical Review Letters, 2003, 91, 233601.	2.9	61
4	Laser Control of Collective Spontaneous Emission. Physical Review Letters, 2003, 91, 123601.	2.9	43
5	Localization of atomic ensembles via superfluorescence. Physical Review A, 2007, 75, .	1.0	42
6	Geometry-dependent dynamics of twoÎ›-type atoms via vacuum-induced coherences. Physical Review A, 2006, 73, .	1.0	38
7	Single-Cycle Gap Soliton in a Subwavelength Structure. Physical Review Letters, 2010, 104, 073902.	2.9	34
8	Coherent manipulation of collective three-level systems. Physical Review A, 2005, 71, .	1.0	25
9	Entangled light via nonlinear vacuum-multiparticle interactions. Physical Review A, 2007, 76, .	1.0	25
10	Quantum correlations of an atomic ensemble via an incoherent bath. Physical Review A, 2005, 72, .	1.0	21
11	Cooperative emission in the process of cascade and dipole-forbidden transitions. Physical Review A, 1997, 56, 3274-3286.	1.0	19
12	Strong-Field Spatial Interference in a Tailored Electromagnetic Bath. Physical Review Letters, 2007, 98, 043602.	2.9	19
13	Phase dependence of collective fluorescence via interferences from incoherent pumping. Optics Communications, 2004, 240, 379-384.	1.0	18
14	Generation of correlated photon pairs in different frequency ranges. Physical Review A, 2012, 85, .	1.0	17
15	Population inversion in two-level systems possessing permanent dipoles. Physical Review A, 2015, 92, .	1.0	15
16	Robust coherent preparation of entangled states of two coupled flux qubits via dynamic control of the transition frequencies. Physical Review B, 2009, 79, .	1.1	14
17	Stationary entanglement in strongly coupled qubits. Physical Review B, 2011, 84, .	1.1	13
18	Collective quantum dot inversion and amplification of photon and phonon waves. Physical Review B, 2013, 88, .	1.1	13

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19	Fast phonon dynamics of a nanomechanical oscillator due to cooperative effects. Physical Review A, 2017, 95, .	1.0	12
20	Rapid refractive index enhancements via laser-mediated collectivity. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, L315-L321.	0.6	10
21	Collectively enhanced resonant photoionization in a multiatom ensemble. Physical Review A, 2011, 84, .	1.0	10
22	Entanglement of a laser-driven pair of two-level qubits via its phonon environment. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1127.	0.9	10
23	Manipulating the Annihilation Dynamics of Positronium via Collective Radiation. Physical Review Letters, 2012, 108, 243401.	2.9	9
24	Quantum dynamics of a two-level emitter with a modulated transition frequency. Physical Review A, 2014, 90, .	1.0	9
25	Probing quantum superposition states with few-cycle laser pulses. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1912.	0.9	8
26	Cooling a quantum circuit via coupling to a multiqubit system. Physical Review A, 2010, 81, .	1.0	8
27	Quantum correlations among optical and vibrational quanta. Physical Review A, 2014, 89, .	1.0	8
28	Magnetic and thermal influences on collective resonance fluorescence. Europhysics Letters, 2004, 68, 391-397.	0.7	7
29	Superbunched photons via a strongly pumped near-equispaced multiparticle system. Physical Review B, 2007, 75, .	1.1	7
30	Measuring photon-photon interactions via photon detection. Physical Review A, 2010, 82, .	1.0	7
31	Squeezing in strong light scattered by a regular structure of atoms. Optics Communications, 2010, 283, 790-794.	1.0	7
32	Quantum entanglement in dense multiqubit systems. Journal of Modern Optics, 2010, 57, 1287-1292.	0.6	6
33	Photon scattering from strongly driven atomic ensembles. Physical Review A, 2011, 84, .	1.0	6
34	Amplitude-squared squeezing in two-photon resonance fluorescence. Optics Communications, 1998, 157, 291-302.	1.0	5
35	Enhancing superfluorescence via decay interference. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 387-392.	0.6	5
36	Cavity quantum interferences with three-level atoms. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 942.	0.9	5

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37	Resonance two-photon interaction of radiators with the broadband squeezed field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 2163-2179.	0.6	4
38	Carrier-envelope phase dependence in single-cycle laser pulse propagation with the inclusion of counter-rotating terms. New Journal of Physics, 2012, 14, 093031.	1.2	4
39	Interference-induced peak splitting in extreme ultraviolet superfluorescence. Optics Letters, 2013, 38, 570.	1.7	4
40	Cavity-output-field control via interference effects. Physical Review A, 2014, 90, .	1.0	4
41	Microwave multiphoton conversion via coherently driven permanent dipole systems. Physical Review A, 2021, 103, .	1.0	4
42	Performance of the collective three-level quantum thermal engine. Physical Review A, 2022, 105, .	1.0	4
43	Cooperative two-photon interaction with nonclassical light. Physica A: Statistical Mechanics and Its Applications, 1998, 258, 383-394.	1.2	3
44	Controlling multiparticle correlations with a strong laser field. Optics Communications, 2006, 264, 407-412.	1.0	3
45	Enhanced photon correlations due to strong laser-atom-cavity coupling. Physical Review A, 2013, 88, .	1.0	3
46	Cooling a two-level emitter in photonic-crystal environments. Physical Review A, 2014, 89, .	1.0	3
47	Spontaneous decay processes in a classical strong low-frequency laser field. Physical Review A, 2020, 102, .	1.0	3
48	Dynamics of a quantum oscillator coupled with a three-level Î›-type emitter. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2473.	0.9	3
49	Multiphonon quantum dynamics in cavity optomechanical systems. Physical Review A, 2022, 105, .	1.0	3
50	Cavity Steady-State Behaviors for a Single Equidistant Three-Level Emitter. Physica Scripta, 2003, 67, 306-313.	1.2	2
51	Spatially entangled atomic deflections in twin-photon light beams. Physical Review A, 2008, 77, .	1.0	2
52	Two-photon cooling of a nonlinear quantum oscillator. Optics Communications, 2009, 282, 3930-3933.	1.0	2
53	Sub-Poissonian phonon statistics in an acoustical resonator coupled to a pumped two-level emitter. Journal of Experimental and Theoretical Physics, 2015, 121, 793-798.	0.2	2
54	Phase dependence of the unnormalized second-order photon correlation function. Journal of Experimental and Theoretical Physics, 2016, 123, 582-586.	0.2	2

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55	Amplifying ultraweak transitions in collective systems via quantum interference. Physical Review A, 2017, 96, .	1.0	2
56	Quantum tunneling through potentials induced by vacuum-multiparticle interactions. Physical Review A, 2007, 75, .	1.0	1
57	Correlated atomic population fluctuations via the environmental reservoir. Journal of Modern Optics, 2009, 56, 704-709.	0.6	1
58	Optical force acting on strongly driven atoms in free space or modified reservoirs. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 045502.	0.6	1
59	Long-time correlated quantum dynamics of phonon cooling. Physical Review A, 2014, 90, .	1.0	1
60	Enhanced vibrational quantum dynamics beyond the rotating wave approximation. JETP Letters, 2017, 105, 526-530.	0.4	1
61	Entanglement versus cooling in the system of a driven pair of two-level qubits longitudinally coupled with a boson-mode field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 065501.	0.6	1
62	Possibility of two-photon superradiance in microcavities. , 1998, , .		0
63	Thermal stimulation of cooperative two-photon decay in a microcavity. , 2001, 4417, 335.		0
64	Controlling Collective Quantum Dynamics with Strong Laser Fields. , 2004, , FMO6.		0
65	Vacuum-mediated incoherent processes in coherently prepared media (Invited Paper). , 2005, , .		0
66	Loading atom lasers by collectivity-enhanced optical pumping. Physical Review A, 2010, 81, .	1.0	0
67	Matter Waves and Quantum Correlations. Physics Magazine, 2012, 5, .	0.1	0
68	Incoherent excitation of few-level multi-atom ensembles. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 035503.	0.6	0
69	Time-dependent highly correlated photons. Optics Communications, 2015, 343, 121-123.	1.0	0
70	Collective dynamics in a laser-pumped mixture of two atomic ensembles. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1280.	0.9	0
71	Optomechanical Systems - from Classic Uses to Modern Applications. Fizica È™i Tehnologiile Moderne, 2021, 19, .	0.0	0
72	Photon scattering from a strongly driven multi-atom system: second-order correlations and squeezing. Chinese Optics Letters, 2012, 10, S22701-322705.	1.3	0