

Mihai A Macovei

List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Multiphonon quantum dynamics in cavity optomechanical systems. <i>Physical Review A</i> , 2022, 105, .	1.0	3
2	Performance of the collective three-level quantum thermal engine. <i>Physical Review A</i> , 2022, 105, .	1.0	4
3	Microwave multiphoton conversion via coherently driven permanent dipole systems. <i>Physical Review A</i> , 2021, 103, .	1.0	4
4	Optomechanical Systems - from Classic Uses to Modern Applications. <i>Fizica È™mi Tehnologiiile Moderne</i> , 2021, 19, .	0.0	0
5	Entanglement versus cooling in the system of a driven pair of two-level qubits longitudinally coupled with a boson-mode field. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 065501.	0.6	1
6	Spontaneous decay processes in a classical strong low-frequency laser field. <i>Physical Review A</i> , 2020, 102, .	1.0	3
7	Dynamics of a quantum oscillator coupled with a three-level $\hat{\rho}$ -type emitter. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 2473.	0.9	3
8	Entanglement of a laser-driven pair of two-level qubits via its phonon environment. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 1127.	0.9	10
9	Fast phonon dynamics of a nanomechanical oscillator due to cooperative effects. <i>Physical Review A</i> , 2017, 95, .	1.0	12
10	Amplifying ultraweak transitions in collective systems via quantum interference. <i>Physical Review A</i> , 2017, 96, .	1.0	2
11	Enhanced vibrational quantum dynamics beyond the rotating wave approximation. <i>JETP Letters</i> , 2017, 105, 526-530.	0.4	1
12	Collective dynamics in a laser-pumped mixture of two atomic ensembles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1280.	0.9	0
13	Phase dependence of the unnormalized second-order photon correlation function. <i>Journal of Experimental and Theoretical Physics</i> , 2016, 123, 582-586.	0.2	2
14	Cavity quantum interferences with three-level atoms. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 942.	0.9	5
15	Population inversion in two-level systems possessing permanent dipoles. <i>Physical Review A</i> , 2015, 92, .	1.0	15
16	Sub-Poissonian phonon statistics in an acoustical resonator coupled to a pumped two-level emitter. <i>Journal of Experimental and Theoretical Physics</i> , 2015, 121, 793-798.	0.2	2
17	Time-dependent highly correlated photons. <i>Optics Communications</i> , 2015, 343, 121-123.	1.0	0
18	Long-time correlated quantum dynamics of phonon cooling. <i>Physical Review A</i> , 2014, 90, .	1.0	1

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19	Quantum correlations among optical and vibrational quanta. <i>Physical Review A</i> , 2014, 89, .	1.0	8
20	Quantum dynamics of a two-level emitter with a modulated transition frequency. <i>Physical Review A</i> , 2014, 90, .	1.0	9
21	Cooling a two-level emitter in photonic-crystal environments. <i>Physical Review A</i> , 2014, 89, .	1.0	3
22	Cavity-output-field control via interference effects. <i>Physical Review A</i> , 2014, 90, .	1.0	4
23	Enhanced photon correlations due to strong laser-atom-cavity coupling. <i>Physical Review A</i> , 2013, 88, .	1.0	3
24	Optical force acting on strongly driven atoms in free space or modified reservoirs. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 045502.	0.6	1
25	Incoherent excitation of few-level multi-atom ensembles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 035503.	0.6	0
26	Interference-induced peak splitting in extreme ultraviolet superfluorescence. <i>Optics Letters</i> , 2013, 38, 570.	1.7	4
27	Collective quantum dot inversion and amplification of photon and phonon waves. <i>Physical Review B</i> , 2013, 88, .	1.1	13
28	Carrier-envelope phase dependence in single-cycle laser pulse propagation with the inclusion of counter-rotating terms. <i>New Journal of Physics</i> , 2012, 14, 093031.	1.2	4
29	Manipulating the Annihilation Dynamics of Positronium via Collective Radiation. <i>Physical Review Letters</i> , 2012, 108, 243401.	2.9	9
30	Matter Waves and Quantum Correlations. <i>Physics Magazine</i> , 2012, 5, .	0.1	0
31	Generation of correlated photon pairs in different frequency ranges. <i>Physical Review A</i> , 2012, 85, .	1.0	17
32	Photon scattering from a strongly driven multi-atom system: second-order correlations and squeezing. <i>Chinese Optics Letters</i> , 2012, 10, S22701-322705.	1.3	0
33	Stationary entanglement in strongly coupled qubits. <i>Physical Review B</i> , 2011, 84, .	1.1	13
34	Collectively enhanced resonant photoionization in a multiatom ensemble. <i>Physical Review A</i> , 2011, 84, .	1.0	10
35	Photon scattering from strongly driven atomic ensembles. <i>Physical Review A</i> , 2011, 84, .	1.0	6
36	Measuring photon-photon interactions via photon detection. <i>Physical Review A</i> , 2010, 82, .	1.0	7

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37	Squeezing in strong light scattered by a regular structure of atoms. <i>Optics Communications</i> , 2010, 283, 790-794.	1.0	7
38	Vacuum-Induced Processes in Multilevel Atoms. <i>Progress in Optics</i> , 2010, 55, 85-197.	0.4	80
39	Single-Cycle Gap Soliton in a Subwavelength Structure. <i>Physical Review Letters</i> , 2010, 104, 073902.	2.9	34
40	Quantum entanglement in dense multiqubit systems. <i>Journal of Modern Optics</i> , 2010, 57, 1287-1292.	0.6	6
41	Cooling a quantum circuit via coupling to a multiqubit system. <i>Physical Review A</i> , 2010, 81, .	1.0	8
42	Loading atom lasers by collectivity-enhanced optical pumping. <i>Physical Review A</i> , 2010, 81, .	1.0	0
43	Robust coherent preparation of entangled states of two coupled flux qubits via dynamic control of the transition frequencies. <i>Physical Review B</i> , 2009, 79, .	1.1	14
44	Correlated atomic population fluctuations via the environmental reservoir. <i>Journal of Modern Optics</i> , 2009, 56, 704-709.	0.6	1
45	Two-photon cooling of a nonlinear quantum oscillator. <i>Optics Communications</i> , 2009, 282, 3930-3933.	1.0	2
46	Probing quantum superposition states with few-cycle laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 1912.	0.9	8
47	Spatially entangled atomic deflections in twin-photon light beams. <i>Physical Review A</i> , 2008, 77, .	1.0	2
48	Enhancing superfluorescence via decay interference. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 387-392.	0.6	5
49	Superbunched photons via a strongly pumped near-equispaced multiparticle system. <i>Physical Review B</i> , 2007, 75, .	1.1	7
50	Localization of atomic ensembles via superfluorescence. <i>Physical Review A</i> , 2007, 75, .	1.0	42
51	Strong-Field Spatial Interference in a Tailored Electromagnetic Bath. <i>Physical Review Letters</i> , 2007, 98, 043602.	2.9	19
52	Entangled light via nonlinear vacuum-multiparticle interactions. <i>Physical Review A</i> , 2007, 76, .	1.0	25
53	Enhancement of entanglement for two-mode fields generated from four-wave mixing with the help of the auxiliary atomic transition. <i>Physical Review A</i> , 2007, 76, .	1.0	84
54	Quantum tunneling through potentials induced by vacuum-multiparticle interactions. <i>Physical Review A</i> , 2007, 75, .	1.0	1

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55	Controlling multiparticle correlations with a strong laser field. Optics Communications, 2006, 264, 407-412.	1.0	3
56	Geometry-dependent dynamics of two $\hat{\omega}$ -type atoms via vacuum-induced coherences. Physical Review A, 2006, 73, .	1.0	38
57	Vacuum-mediated incoherent processes in coherently prepared media (Invited Paper). , 2005, , .		0
58	Quantum correlations of an atomic ensemble via an incoherent bath. Physical Review A, 2005, 72, .	1.0	21
59	Coherent manipulation of collective three-level systems. Physical Review A, 2005, 71, .	1.0	25
60	Rapid refractive index enhancements via laser-mediated collectivity. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, L315-L321.	0.6	10
61	Controlling Collective Quantum Dynamics with Strong Laser Fields. , 2004, , FMO6.		0
62	Magnetic and thermal influences on collective resonance fluorescence. Europhysics Letters, 2004, 68, 391-397.	0.7	7
63	Phase dependence of collective fluorescence via interferences from incoherent pumping. Optics Communications, 2004, 240, 379-384.	1.0	18
64	Cavity Steady-State Behaviors for a Single Equidistant Three-Level Emitter. Physica Scripta, 2003, 67, 306-313.	1.2	2
65	Laser Control of Collective Spontaneous Emission. Physical Review Letters, 2003, 91, 123601.	2.9	43
66	Phase Control of Collective Quantum Dynamics. Physical Review Letters, 2003, 91, 233601.	2.9	61
67	Thermal stimulation of cooperative two-photon decay in a microcavity. , 2001, 4417, 335.		0
68	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
69	Cooperative two-photon interaction with nonclassical light. Physica A: Statistical Mechanics and Its Applications, 1998, 258, 383-394.	1.2	3
70	Amplitude-squared squeezing in two-photon resonance fluorescence. Optics Communications, 1998, 157, 291-302.	1.0	5
71	Possibility of two-photon superradiance in microcavities. , 1998, , .		0
72	Cooperative emission in the process of cascade and dipole-forbidden transitions. Physical Review A, 1997, 56, 3274-3286.	1.0	19