Ramón López-Peña

List of Publications by Year
in descending order

24 papers	**382** citations	840776 **11** h-index	752698 **20** g-index
24 all docs	**24** docs citations	**24** times ranked	**133** citing authors

#	Article	IF	Citations
1	No singularities in observables at the phase transition in the Dicke model. Physical Review A, 2011, 83, .	2.5	61
2	Superradiant phase in field-matter interactions. Physical Review A, 2011, 84, .	2.5	53
3	Coherent state description of the ground state in the Tavis–Cummings model and its quantum phase transitions. Physica Scripta, 2009, 79, 065405.	2.5	34
4	Mathematical methods in quantum optics: the Dicke model. Physica Scripta, 2013, 87, 038114.	2.5	28
5	Crystallized schrödinger cat states. Journal of Russian Laser Research, 1995, 16, 477-525.	0.6	26
6	Geometry and Entanglement of Two-Qubit States in the Quantum Probabilistic Representation. Entropy, 2018, 20, 630.	2.2	26
7	Analytic approximation of the Tavis–Cummings ground state via projected states. Physica Scripta, 2009, 80, 055401.	2.5	23
8	A semi-classical versus quantum description of the ground state of three-level atoms interacting with a one-mode electromagnetic field. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 505302.	2.1	23
9	Polychromatic phase diagram for n-level atoms interacting with ℓ modes of an electromagnetic field. Physical Review A, 2015, 92, .	2.5	21
10	Squeeze tomography of quantum states. Journal of Physics A, 2004, 37, 8529-8544.	1.6	13
11	Symmetry adapted coherent states for three-level atoms interacting with one-mode radiation. Physica Scripta, 2015, 90, 068016.	2.5	12
12	Variational study of λ and N atomic configurations interacting with an electromagnetic field of two modes. Physical Review A, 2016, 94, .	2.5	11
13	Phase diagrams of systems of two and three levels in the presence of a radiation field. Physica Scripta, 2015, 90, 074026.	2.5	8
14	Quantum phase diagrams of matter-field Hamiltonians II: Wigner function analysis. Physica Scripta, 2021, 96, 035103.	2.5	7
15	Single and collective regimes in three-level systems interacting with a one-mode electromagnetic field. Journal of Physics: Conference Series, 2014, 512, 012006.	0.4	6
16	A general system of n levels interacting with ${\ell }$ electromagnetic modes. Physica Scripta, 2017, 92, 044004.	2.5	6
17	Phase space properties of light within the generalised Dicke model. Physica Scripta, 2018, 93, 085102.	2.5	5
18	Reduced bases for a three-level atom interacting with a two-mode radiation field. Physical Review A, 2019, 99, .	2.5	5

#	Article	IF	Citations
19	Quantum phase diagrams of matter-field Hamiltonians I: Fidelity, Bures distance, and entanglement. Physica Scripta, 2021, 96, 035104.	2.5	5
20	Dynamic generation of light states with discrete symmetries. Physical Review A, 2018, 97, .	2.5	3
21	Optimal basis for the generalized Dicke model. Physical Review A, 2019, 100, .	2.5	3
22	Universal critical behaviour of 3-level atoms interacting dipolarly with radiation. Journal of Physics: Conference Series, 2018, 1071, 012006.	0.4	2
23	Coupling n-level Atoms with l-modes of Quantised Light in a Resonator. Journal of Physics: Conference Series, 2016, 698, 012006.	0.4	1
24	Effect of the atomic dipole-dipole interaction on the phase diagrams of field-matter interactions: Variational procedure. Physical Review A, 2022, 105, .	2.5	0