Eduardo Nahmad-Achar

List of Publications by Year
in descending order

43 papers	440 citations	840776 11 h-index	752698 20 g-index
43 all docs	43 docs citations	43 times ranked	186 citing authors

#	Article	IF	Citations
1	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
2	Quantum phase diagrams of matter-field Hamiltonians I: Fidelity, Bures distance, and entanglement. Physica Scripta, 2021, 96, 035104.	2.5	5
3	Quantum phase diagrams of matter-field Hamiltonians II: Wigner function analysis. Physica Scripta, 2021, 96, 035103.	2.5	7
4	Is a Deterministic and Local Interpretation of Quantum Mechanics Possible?… First Steps. Journal of Physics: Conference Series, 2020, 1540, 012006.	0.4	0
5	Quantum-Optical set-up for the Monty Hall problem. Physica Scripta, 2020, 95, 065102.	2.5	3
6	Optimal basis for the generalized Dicke model. Physical Review A, 2019, 100, .	2.5	3
7	Reduced bases for a three-level atom interacting with a two-mode radiation field. Physical Review A, 2019, 99, .	2.5	5
8	Quantum Locality, Rings a Bell?: Bell's Inequality Meets Local Reality and True Determinism. Foundations of Physics, 2018, 48, 27-47.	1.3	4
9	Universal critical behaviour of 3-level atoms interacting dipolarly with radiation. Journal of Physics: Conference Series, 2018, 1071, 012006.	0.4	2
10	Entropy of Entanglement between Quantum Phases of a Three-Level Matter-Radiation Interaction Model. Entropy, 2018, 20, 72.	2.2	1
11	Geometry and Entanglement of Two-Qubit States in the Quantum Probabilistic Representation. Entropy, 2018, 20, 630.	2.2	26
12	Quantum phases of a three-level matter-radiation interaction model using SU(3) coherent states with different cooperation numbers. Physical Review A, 2018, 97, .	2.5	3
13	Phase space properties of light within the generalised Dicke model. Physica Scripta, 2018, 93, 085102.	2.5	5
14	Finding Solutions To Contradictions In Relativity And Quantum Mechanics. , 2018, , .		0
15	Characterization of the quantum phase transition in a two-mode Dicke model for different cooperation numbers. Physical Review A, 2017, 95, .	2.5	6
16	A general system of n levels interacting with ${\ell }$ electromagnetic modes. Physica Scripta, 2017, 92, 044004.	2.5	6
17	Variational study of ℓ and N atomic configurations interacting with an electromagnetic field of two modes. Physical Review A, 2016, 94, .	2.5	11
18	Multiscale Modeling of the Effect of Pressure on the Interfacial Tension and Other Cohesion Parameters in Binary Mixtures. Journal of Physical Chemistry B, 2016, 120, 2372-2379.	2.6	4

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19	Polychromatic phase diagram for n-level atoms interacting with $\aleph$ "modes of an electromagnetic field. Physical Review A, 2015, 92, .	2.5	21
20	Symmetry adapted coherent states for three-level atoms interacting with one-mode radiation. Physica Scripta, 2015, 90, 068016.	2.5	12
21	Phase diagrams of systems of two and three levels in the presence of a radiation field. Physica Scripta, 2015, 90, 074026.	2.5	8
22	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
23	A triple point in 3-level systems. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 455301.	2.1	4
24	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
25	Quantum phase crossovers with finite atom number in the Dicke model. Physica Scripta, 2013, T153, 014033.	2.5	3
26	On the spectrum of field quadratures for a finite number of photons. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 395303.	2.1	2
27	Universal critical behavior in the Dicke model. Physical Review A, 2012, 86, .	2.5	22
28	Quantum phase transitions in the LMG model by means of quantum information concepts. Journal of Physics: Conference Series, 2012, 387, 012021.	0.4	9
29	Study of interfacial tension between an organic solvent and aqueous electrolyte solutions using electrostatic dissipative particle dynamics simulations. Journal of Chemical Physics, 2012, 137, 194701.	3.0	21
30	Superradiant phase in field-matter interactions. Physical Review A, 2011, 84, .	2.5	53
31	No singularities in observables at the phase transition in the Dicke model. Physical Review A, 2011, 83, .	2.5	61
32	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
33	Colloidal Stability Dependence on Polymer Adsorption through Disjoining Pressure Isotherms. Langmuir, 2009, 25, 3529-3537.	3.5	13
34	Analytic approximation of the Tavis–Cummings ground state via projected states. Physica Scripta, 2009, 80, 055401.	2.5	23
35	Novel tools for coating developers: a solution to the inverse problem in formulation. Journal of Coatings Technology Research, 2007, 4, 231-240.	2.5	0
36	Modeling, prediction, and analysis of alkyd enamel coating properties via neural computing. Journal of Coatings Technology Research, 2006, 3, 141-149.	2.5	2

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37	An Artificial Neural Network Approach to Stimuli-Response Mechanisms in Complex Systems. ACS Symposium Series, 2005, , 181-194.	0.5	2
38	Spontaneous compactification and coupling constants in a geometric model for SU(2)Ã—U(1) with gravity. Physical Review D, 1990, 42, 488-502.	4.7	0
39	Gravitational energy for spherically symmetric configurations. Monthly Notices of the Royal Astronomical Society, 1987, 228, 51P-53P.	4.4	3
40	Angular momentum at null infinity and variational principles. Classical and Quantum Gravity, 1987, 4, 943-956.	4.0	2
41	Conserved quantities from pseudotensors and extremum theorems for angular momentum. Classical and Quantum Gravity, 1987, 4, 929-942.	4.0	8
42	Pseudotensors in asymptotically curvilinear coordinates. General Relativity and Gravitation, 1987, 19, 655-663.	2.0	17
43	The Structure of Phase Diagrams in Matter-Radiation Systems. Physica Scripta, 0, , .	2.5	0