

Eduardo Nahmad-Achar

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

440
citations

840776

11
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752698

20
g-index

43
all docs

43
docs citations

43
times ranked

186
citing authors

#	ARTICLE	IF	CITATIONS
1	No singularities in observables at the phase transition in the Dicke model. <i>Physical Review A</i> , 2011, 83, .	2.5	61
2	Superradiant phase in field-matter interactions. <i>Physical Review A</i> , 2011, 84, .	2.5	53
3	Coherent state description of the ground state in the Tavis-Cummings model and its quantum phase transitions. <i>Physica Scripta</i> , 2009, 79, 065405.	2.5	34
4	Geometry and Entanglement of Two-Qubit States in the Quantum Probabilistic Representation. <i>Entropy</i> , 2018, 20, 630.	2.2	26
5	Analytic approximation of the Tavis-Cummings ground state via projected states. <i>Physica Scripta</i> , 2009, 80, 055401.	2.5	23
6	A semi-classical versus quantum description of the ground state of three-level atoms interacting with a one-mode electromagnetic field. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 505302.	2.1	23
7	Universal critical behavior in the Dicke model. <i>Physical Review A</i> , 2012, 86, .	2.5	22
8	Study of interfacial tension between an organic solvent and aqueous electrolyte solutions using electrostatic dissipative particle dynamics simulations. <i>Journal of Chemical Physics</i> , 2012, 137, 194701.	3.0	21
9	Polychromatic phase diagram for n-level atoms interacting with \hat{a} modes of an electromagnetic field. <i>Physical Review A</i> , 2015, 92, .	2.5	21
10	Pseudotensors in asymptotically curvilinear coordinates. <i>General Relativity and Gravitation</i> , 1987, 19, 655-663.	2.0	17
11	Colloidal Stability Dependence on Polymer Adsorption through Disjoining Pressure Isotherms. <i>Langmuir</i> , 2009, 25, 3529-3537.	3.5	13
12	Symmetry adapted coherent states for three-level atoms interacting with one-mode radiation. <i>Physica Scripta</i> , 2015, 90, 068016.	2.5	12
13	Variational study of n and N atomic configurations interacting with an electromagnetic field of two modes. <i>Physical Review A</i> , 2016, 94, .	2.5	11
14	Quantum phase transitions in the LMG model by means of quantum information concepts. <i>Journal of Physics: Conference Series</i> , 2012, 387, 012021.	0.4	9
15	Conserved quantities from pseudotensors and extremum theorems for angular momentum. <i>Classical and Quantum Gravity</i> , 1987, 4, 929-942.	4.0	8
16	Phase diagrams of systems of two and three levels in the presence of a radiation field. <i>Physica Scripta</i> , 2015, 90, 074026.	2.5	8
17	Quantum phase diagrams of matter-field Hamiltonians II: Wigner function analysis. <i>Physica Scripta</i> , 2021, 96, 035103.	2.5	7
18	Single and collective regimes in three-level systems interacting with a one-mode electromagnetic field. <i>Journal of Physics: Conference Series</i> , 2014, 512, 012006.	0.4	6

#	ARTICLE	IF	CITATIONS
19	Characterization of the quantum phase transition in a two-mode Dicke model for different cooperation numbers. <i>Physical Review A</i> , 2017, 95, .	2.5	6
20	A general system of n levels interacting with ℓ electromagnetic modes. <i>Physica Scripta</i> , 2017, 92, 044004.	2.5	6
21	Phase space properties of light within the generalised Dicke model. <i>Physica Scripta</i> , 2018, 93, 085102.	2.5	5
22	Reduced bases for a three-level atom interacting with a two-mode radiation field. <i>Physical Review A</i> , 2019, 99, .	2.5	5
23	Quantum phase diagrams of matter-field Hamiltonians I: Fidelity, Bures distance, and entanglement. <i>Physica Scripta</i> , 2021, 96, 035104.	2.5	5
24	A triple point in 3-level systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 455301.	2.1	4
25	Multiscale Modeling of the Effect of Pressure on the Interfacial Tension and Other Cohesion Parameters in Binary Mixtures. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2372-2379.	2.6	4
26	Quantum Locality, Rings a Bell?: Bell's Inequality Meets Local Reality and True Determinism. <i>Foundations of Physics</i> , 2018, 48, 27-47.	1.3	4
27	Gravitational energy for spherically symmetric configurations. <i>Monthly Notices of the Royal Astronomical Society</i> , 1987, 228, 51P-53P.	4.4	3
28	Quantum phase crossovers with finite atom number in the Dicke model. <i>Physica Scripta</i> , 2013, T153, 014033.	2.5	3
29	Quantum phases of a three-level matter-radiation interaction model using $SU(3)$ coherent states with different cooperation numbers. <i>Physical Review A</i> , 2018, 97, .	2.5	3
30	Optimal basis for the generalized Dicke model. <i>Physical Review A</i> , 2019, 100, .	2.5	3
31	Quantum-Optical set-up for the Monty Hall problem. <i>Physica Scripta</i> , 2020, 95, 065102.	2.5	3
32	Angular momentum at null infinity and variational principles. <i>Classical and Quantum Gravity</i> , 1987, 4, 943-956.	4.0	2
33	An Artificial Neural Network Approach to Stimuli-Response Mechanisms in Complex Systems. <i>ACS Symposium Series</i> , 2005, , 181-194.	0.5	2
34	Modeling, prediction, and analysis of alkyd enamel coating properties via neural computing. <i>Journal of Coatings Technology Research</i> , 2006, 3, 141-149.	2.5	2
35	On the spectrum of field quadratures for a finite number of photons. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 395303.	2.1	2
36	Universal critical behaviour of 3-level atoms interacting dipolarly with radiation. <i>Journal of Physics: Conference Series</i> , 2018, 1071, 012006.	0.4	2

#	ARTICLE	IF	CITATIONS
37	Entropy of Entanglement between Quantum Phases of a Three-Level Matter-Radiation Interaction Model. <i>Entropy</i> , 2018, 20, 72.	2.2	1
38	Spontaneous compactification and coupling constants in a geometric model for $SU(2)\tilde{\times}U(1)$ with gravity. <i>Physical Review D</i> , 1990, 42, 488-502.	4.7	0
39	Novel tools for coating developers: a solution to the inverse problem in formulation. <i>Journal of Coatings Technology Research</i> , 2007, 4, 231-240.	2.5	0
40	The Structure of Phase Diagrams in Matter-Radiation Systems. <i>Physica Scripta</i> , 0, , .	2.5	0
41	Is a Deterministic and Local Interpretation of Quantum Mechanics Possible? First Steps. <i>Journal of Physics: Conference Series</i> , 2020, 1540, 012006.	0.4	0
42	Finding Solutions To Contradictions In Relativity And Quantum Mechanics. , 2018, , .		0
43	Effect of the atomic dipole-dipole interaction on the phase diagrams of field-matter interactions: Variational procedure. <i>Physical Review A</i> , 2022, 105, .	2.5	0