

Mohammad Kazem Tavassoly

List of Publications by Year in descending order

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99
papers

1,553
citations

304743

22
h-index

395702

33
g-index

99
all docs

99
docs citations

99
times ranked

290
citing authors

#	ARTICLE	IF	CITATIONS
1	Phonon blockade in a system consisting of two optomechanical cavities with quadratic cavityâ€“membrane coupling and phonon hopping. <i>European Physical Journal D</i> , 2022, 76, 1.	1.3	4
2	The Influence of Counter Rotating Terms on the Entanglement Dynamics of Two Dipole-Coupled Qutrits Interacting with a Two-Mode Field: Intensity-Dependent Coupling Approach. <i>International Journal of Theoretical Physics</i> , 2022, 61, .	1.2	1
3	Macroscopic Mechanical Entanglement Stability in Two Distant Dissipative Optomechanical Systems. <i>Annalen Der Physik</i> , 2022, 534, .	2.4	10
4	Generation of Werner-like states via a two-qubit system plunged in a thermal reservoir and their application in solving binary classification problems. <i>Scientific Reports</i> , 2021, 11, 3554.	3.3	12
5	Photon entanglement through linear optics networks with birefringent crystals. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	1
6	Photon blockade in a system consisting of two optomechanical cavities via photon hopping. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	7
7	Dissipative dynamics of an entangled three-qubit system via non-Hermitian Hamiltonian: Its correspondence with Markovian and non-Markovian regimes. <i>Chinese Physics B</i> , 2021, 30, 034205.	1.4	1
8	Distributed Entangled State Production by Using Quantum Repeater Protocol. <i>International Journal of Theoretical Physics</i> , 2021, 60, 1870-1882.	1.2	1
9	Counter rotating terms and dipoleâ€“dipole interaction effects on the entanglement and population inversion of two qubits interacting with a two-mode field. <i>Journal of Modern Optics</i> , 2021, 68, 522-535.	1.3	4
10	Teleportation with superconducting qubits. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	7
11	Quantum information transfer and entangled state generation using superconducting qubits in the absence and presence of dissipation. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	7
12	Qubit movement-assisted entanglement swapping. <i>Chinese Physics B</i> , 2020, 29, 050304.	1.4	6
13	Entanglement Dynamics of a Dissipative Two-qubit System Under the Influence of a Global Environment. <i>International Journal of Theoretical Physics</i> , 2020, 59, 1742-1754.	1.2	7
14	The field-field and dipole-dipole coupling effects on the entanglement of the interaction between two qutrits with a two-mode field. <i>Modern Physics Letters A</i> , 2020, 35, 2050183.	1.2	12
15	Entanglement dynamics of moving qubits in a common environment. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 400.	2.1	17
16	Population imbalance, macroscopic tunneling and intermodal entanglement of two-mode Boseâ€“Einstein condensate under the influence of dissipation process. <i>International Journal of Modern Physics B</i> , 2019, 33, 1950181.	2.0	4
17	Teleportation of squeezed states in the absence and presence of dissipation. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	6
18	Toward a quantum repeater protocol based on the coherent state approach. <i>Laser Physics</i> , 2019, 29, 085202.	1.2	6

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19	Atomic motion and dipole-dipole effects on the stability of atom-atom entanglement in Markovian/non-Markovian reservoir. <i>Modern Physics Letters A</i> , 2019, 34, 1950077.	1.2	13
20	Dissipative quantum repeater. <i>Quantum Information Processing</i> , 2019, 18, 1.	2.2	10
21	Quantum repeater using three-level atomic states in the presence of dissipation: stability of entanglement. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 085502.	1.5	6
22	Generation of various classes of entangled states in a two-mode Bose-Einstein condensate under the influence of interatom collisions. <i>Modern Physics Letters A</i> , 2019, 34, 1950282.	1.2	0
23	Dynamic Properties for BEC in an Optical Cavity with Atom-Photon Nonlinear Interaction. <i>International Journal of Theoretical Physics</i> , 2019, 58, 844-864.	1.2	2
24	Quantum repeater protocol using an arrangement of QED-optomechanical hybrid systems. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 2669.	2.1	7
25	Stability of various entanglements in the interaction between two two-level atoms with a quantized field under the influences of several decay sources. <i>Indian Journal of Physics</i> , 2018, 92, 955-968.	1.8	5
26	Dynamics and maintenance of bipartite entanglement via the Stark shift effect inside dissipative reservoirs. <i>Laser Physics Letters</i> , 2018, 15, 035205.	1.4	14
27	Entanglement Dynamics of Linear and Nonlinear Interaction of Two Two-Level Atoms with a Quantized Phase-Damped Field in the Dispersive Regime. <i>International Journal of Theoretical Physics</i> , 2018, 57, 1645-1658.	1.2	4
28	Considerable improvement of entanglement swapping by considering multiphoton transitions via cavity quantum electrodynamics method. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850093.	2.0	3
29	Dynamics of entanglement protection of two qubits using a driven laser field and detunings: Independent and common, Markovian and/or non-Markovian regimes. <i>Chinese Physics B</i> , 2018, 27, 040303.	1.4	13
30	Entanglement swapping and teleportation using Mach-Zehnder interferometer assisted with a cross-Kerr cell: generation of tripartite entangled state. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	6
31	Coping with attenuation of quantum correlations of two qubit systems in dissipative environments: multi-photon transitions. <i>European Physical Journal D</i> , 2018, 72, 1.	1.3	8
32	Quantum repeater protocol in mixed single- and two-mode Tavis-Cummings models. <i>Europhysics Letters</i> , 2018, 123, 24002.	2.0	10
33	A trapped ion in an optomechanical system: entanglement dynamics. <i>European Physical Journal D</i> , 2018, 72, 1.	1.3	9
34	Atom and field squeezed output of three-level atom laser surrounded by a Kerr medium in the electromagnetically induced transparency regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 86.	2.1	10
35	One-pump fiber optical parametric amplifiers: from the pulsed to the continuous wave operation. <i>Optical Engineering</i> , 2018, 57, 1.	1.0	8
36	Description of Atom-Field Interaction via Quantized Caldirola-Kanai Hamiltonian. <i>International Journal of Theoretical Physics</i> , 2017, 56, 1218-1232.	1.2	7

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37	On the entanglement swapping by using the beam splitter. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	21
38	The influence of atomic dipole-dipole interaction on the dynamics of the population inversion and entanglement of two atoms interacting non-resonantly with two coupled modes field. <i>Modern Physics Letters B</i> , 2017, 31, 1750038.	1.9	12
39	Dynamics of Nonclassicality of Time- and Conductivity-Dependent Squeezed States and Excited Even/Odd Coherent States. <i>Communications in Theoretical Physics</i> , 2017, 67, 365.	2.5	4
40	The generation and properties of new classes of multipartite entangled coherent squeezed states in a conducting cavity. <i>Annalen Der Physik</i> , 2017, 529, 1600246.	2.4	10
41	Dynamics of the interaction between a trapped three-level ion with a two-mode quantized field in the nonlinear regime in the presence of a Kerr medium. <i>Journal of Modern Optics</i> , 2017, 64, 1463-1478.	1.3	3
42	Quantum dynamics of a BEC interacting with a single-mode quantized field under the influence of a dissipation process: thermal and squeezed vacuum reservoirs. <i>Laser Physics</i> , 2017, 27, 095202.	1.2	16
43	Spectral properties of trapped two-level ions interacting with quantized fields. <i>Physical Review A</i> , 2017, 95, .	2.5	4
44	The influence of excitation number of photon-added coherent state field on the entanglement swapping process. <i>International Journal of Modern Physics B</i> , 2017, 31, 1750198.	2.0	3
45	Approximate conditional teleportation of a Λ -type three-level atomic state based on cavity QED method beyond Bell-state measurement. <i>Quantum Information Processing</i> , 2017, 16, 1.	2.2	19
46	Decoherence in quantum lossy systems: superoperator and matrix techniques. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	1
47	Damping, field-field correlation and dipole-dipole interaction effects on the entanglement and atomic inversion dynamics. <i>International Journal of Modern Physics B</i> , 2017, 31, 1750006.	2.0	2
48	Pulsed optical parametric amplification based on photonic crystal fibres. <i>Journal of Modern Optics</i> , 2017, 64, 357-365.	1.3	11
49	Dissipative entanglement swapping in the presence of detuning and Kerr medium: Bell state measurement method. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	28
50	Damping effect in the interaction of a Λ -type three-level atom with a single-mode field: Caldirola-Kanai approach. <i>Laser Physics</i> , 2016, 26, 065204.	1.2	6
51	Entanglement of a damped non-degenerate Λ -type atom interacting nonlinearly with a single-mode cavity. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	8
52	The effects of damping on the approximate teleportation and nonclassical properties in the atom-field interaction. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	11
53	Entanglement swapping to a qutrit-qutrit atomic system in the presence of Kerr medium and detuning parameter. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	12
54	A novel scheme of hybrid entanglement swapping and teleportation using cavity QED in the small and large detuning regimes and quasi-Bell state measurement method. <i>Chinese Physics B</i> , 2016, 25, 100303.	1.4	22

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55	Entanglement swapping between dissipative systems. <i>Physical Review A</i> , 2016, 94, .	2.5	16
56	Collapse-revival in entanglement and photon statistics: the interaction of a three-level atom with a two-mode quantized field in cavity optomechanics. <i>Laser Physics</i> , 2016, 26, 125204.	1.2	14
57	Quantum Zeno and anti-Zeno effects on the entanglement dynamics of qubits dissipating into a common and non-Markovian environment. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 1723.	2.1	24
58	Production, Entanglement and Polarization of Nonlinear Excited Entangled Coherent States of Some Realizations of the SU(1,1) and SU(2) Groups. <i>International Journal of Theoretical Physics</i> , 2016, 55, 563-576.	1.2	9
59	Decoherence of quantum excitation of even/odd coherent states in thermal environment. <i>Pramana - Journal of Physics</i> , 2016, 86, 763-776.	1.8	2
60	Entanglement Evolution Between Various Subsystems of Two Three-level Atoms Interacting with a Two-mode Quantized Field in the Presence of Converter Terms. <i>International Journal of Theoretical Physics</i> , 2016, 55, 2573-2587.	1.2	11
61	Dynamics and protection of entanglement in n -qubit systems within Markovian and non-Markovian environments. <i>Physical Review A</i> , 2016, 93, .	2.5	45
62	Dipole-dipole interaction between trapped two-level ions interacting with a quantized field in the Lamb-Dicke regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 382.	2.1	6
63	Generation of entangled coherent-squeezed states: their entanglement and nonclassical properties. <i>Quantum Information Processing</i> , 2016, 15, 1513-1527.	2.2	17
64	Generation of entangled squeezed states: their entanglement and quantum polarization. <i>Laser Physics</i> , 2015, 25, 115201.	1.2	12
65	Excitation and depletion of entangled squeezed states: their properties and generation. <i>Physica Scripta</i> , 2015, 90, 085102.	2.5	12
66	Interaction of a Λ -type three-level atom with a single-mode field without rotating wave approximation: perturbation theory approach. <i>Physica Scripta</i> , 2015, 90, 025103.	2.5	14
67	Generation and nonclassicality of entangled states via the interaction of two three-level atoms with a quantized cavity field assisted by a driving external classical field. <i>Quantum Information Processing</i> , 2015, 14, 1279-1303.	2.2	18
68	Entanglement Criteria of Two Two-Level Atoms Interacting with Two Coupled Modes. <i>International Journal of Theoretical Physics</i> , 2015, 54, 2839-2854.	1.2	26
69	Single-mode nonlinear excited entangled coherent states and their nonclassical properties. <i>Physica Scripta</i> , 2015, 90, 015101.	2.5	14
70	A novel approach to entanglement dynamics of two two-level atoms interacting with dissipative cavities. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	16
71	Algebraic and group treatments to nonlinear displaced number states and their nonclassicality features: A new approach. <i>Chinese Physics B</i> , 2015, 24, 064204.	1.4	4
72	Dynamics and protecting of entanglement in two-level systems interacting with a dissipative cavity: the Gardiner-Collett approach. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 165502.	1.5	26

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73	Generation of $SU(1, 1)$ and $SU(2)$ entangled states in a quantized cavity field by strong-driving-assisted classical field approach. <i>Laser Physics</i> , 2015, 25, 055203.	1.2	12
74	Dynamics of different entanglement measures of two three-level atoms interacting nonlinearly with a single-mode field. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	26
75	Generation of some entangled states of the cavity field. <i>Quantum Information Processing</i> , 2015, 14, 593-606.	2.2	10
76	Quantum engineering and nonclassical properties of $SU(1,1)$ and $SU(2)$ entangled nonlinear coherent states. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 2345.	2.1	22
77	Entanglement analysis of a two-atom nonlinear Jaynes-Cummings model with nondegenerate two-photon transition, Kerr nonlinearity, and two-mode Stark shift. <i>Laser Physics</i> , 2014, 24, 125203.	1.2	39
78	The decoherence of the quantum excitation of even/odd coherent states in a photon-loss channel. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 165502.	1.5	3
79	Tripartite entanglement dynamics and entropic squeezing of a three-level atom interacting with a bimodal cavity field. <i>Laser Physics</i> , 2014, 24, 045202.	1.2	47
80	Entropy squeezing and atomic inversion in the k -photon Jaynes-Cummings model in the presence of the Stark shift and a Kerr medium: A full nonlinear approach. <i>Chinese Physics B</i> , 2014, 23, 074203.	1.4	45
81	Entanglement, quantum statistics and squeezing of two λ -type three-level atoms interacting nonlinearly with a single-mode field. <i>Physica Scripta</i> , 2014, 89, 075101.	2.5	45
82	Quantum entanglement and position-momentum entropic squeezing of a moving λ -type three-level atom interacting with a single-mode quantized field with intensity-dependent coupling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 145506.	1.5	38
83	Entanglement dynamics and position-momentum entropic uncertainty relation of a λ -type three-level atom interacting with a two-mode cavity field in the presence of nonlinearities. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 1109.	2.1	55
84	Number-phase entropic squeezing and nonclassical properties of a three-level atom interacting with a two-mode field: intensity-dependent coupling, deformed Kerr medium, and detuning effects. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2810.	2.1	36
85	Nonlinear semi-coherent states, their nonclassical features and phase properties. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 135301.	2.1	16
86	Generation of a class of $SU(1,1)$ coherent states of the Gilmore-Perelomov type and a class of $SU(2)$ coherent states and their superposition. <i>Physica Scripta</i> , 2012, 85, 035404.	2.5	30
87	Quantum phase distribution and the number phase Wigner function of the generalized squeezed vacuum states associated with solvable quantum systems. <i>Chinese Physics B</i> , 2012, 21, 054208.	1.4	13
88	Dynamics of entropy and nonclassical properties of the state of a λ -type three-level atom interacting with a single-mode cavity field with intensity-dependent coupling in a Kerr medium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 035502.	1.5	63
89	Generalized deformed Kerr states and their physical properties. <i>Physica Scripta</i> , 2012, 86, 035401.	2.5	27
90	ON THE EFFECT OF TEMPORAL STABILITY OF COHERENT STATES ON THE STABILITY OF NONCLASSICALITY FEATURES. <i>International Journal of Modern Physics B</i> , 2012, 26, 1250160.	2.0	0

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91	Generation of nonlinear motional trio coherent states and their nonclassical properties. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 175502.	1.5	10
92	DYNAMICS OF STATES IN THE NONLINEAR INTERACTION REGIME BETWEEN A THREE-LEVEL ATOM AND GENERALIZED COHERENT STATES AND THEIR NON-CLASSICAL FEATURES. International Journal of Modern Physics B, 2012, 26, 1250027.	2.0	28
93	Deformed photon-added nonlinear coherent states and their non-classical properties. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 225301.	2.1	49
94	ON A GENERAL FORMALISM OF NONLINEAR CHARGE COHERENT STATES, THEIR QUANTUM STATISTICS AND NONCLASSICAL PROPERTIES. International Journal of Modern Physics A, 2010, 25, 3481-3504.	1.5	9
95	New nonlinear coherent states associated with inverse bosonic and f -deformed ladder operators. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 285305.	2.1	17
96	Construction of the dual family of Gazeau-Klauder coherent states via temporally stable nonlinear coherent states. Journal of Mathematical Physics, 2005, 46, 042110.	1.1	46
97	Representations of coherent and squeezed states in f -deformed Fock space. Journal of Physics A, 2004, 37, 5649-5660.	1.6	19
98	Representations of coherent states in non-orthogonal bases. Journal of Physics A, 2004, 37, 4407-4422.	1.6	37
99	The construction of some important classes of generalized coherent states: the nonlinear coherent states method. Journal of Physics A, 2004, 37, 8111-8127.	1.6	84