

Abdel-Baset A Mohamed

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Numerical Algorithm for the Solutions of ABC Singular Lane–Emden Type Models Arising in Astrophysics Using Reproducing Kernel Discretization Method. <i>Mathematics</i> , 2020, 8, 923.	2.2	74
2	Generation and robustness of bipartite non-classical correlations in two nonlinear microcavities coupled by an optical fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 47.	2.1	57
3	Bipartite non-classical correlations for a lossy two connected qubit–cavity systems: trace distance discord and Bell’s non-locality. <i>Quantum Information Processing</i> , 2018, 17, 1.	2.2	48
4	Quantum correlation control for two semiconductor microcavities connected by an optical fiber. <i>Physica Scripta</i> , 2017, 92, 065101.	2.5	47
5	Pairwise quantum correlations of a three-qubit XY chain with phase decoherence. <i>Quantum Information Processing</i> , 2013, 12, 1141-1153.	2.2	46
6	Non-local correlations via Wigner–Yanase skew information in two SC-qubit having mutual interaction under phase decoherence. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	38
7	Bipartite non-local correlations in a double-quantum-dot excitonic system. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 335301.	2.1	33
8	Efficient protocol of N -bit discrete quantum Fourier transform via transmon qubits coupled to a resonator. <i>Quantum Information Processing</i> , 2014, 13, 475-489.	2.2	32
9	Entropies and Entanglement for Initial Mixed State in the Multi-quanta JC Model with the Stark Shift and Kerr-like Medium. <i>International Journal of Theoretical Physics</i> , 2007, 46, 1027-1044.	1.2	30
10	Entropies and entanglement for decoherence without energy relaxation in a two-level atom. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 2241-2248.	1.5	29
11	Long-time death of nonclassicality of a cavity field interacting with a charge qubit and its own reservoir. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 4115-4119.	2.1	26
12	Quantum correlation of correlated two qubits interacting with a thermal field. <i>Physica Scripta</i> , 2012, 85, 055013.	2.5	26
13	Tripartite entropic uncertainty relation under phase decoherence. <i>Scientific Reports</i> , 2021, 11, 11830.	3.3	24
14	Quantum Correlation via Skew Information and Bell Function Beyond Entanglement in a Two-Qubit Heisenberg XYZ Model: Effect of the Phase Damping. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3782.	2.5	21
15	Intrinsic decoherence effects on nonclassical correlations in a symmetric spin–orbit model. <i>Results in Physics</i> , 2022, 39, 105693.	4.1	19
16	Quasi-probability information in a coupled two-qubit system interacting non-linearly with a coherent cavity under intrinsic decoherence. <i>Scientific Reports</i> , 2020, 10, 13240.	3.3	16
17	Non-local correlation dynamics in two-dimensional graphene. <i>Scientific Reports</i> , 2022, 12, 3581.	3.3	15
18	Geometric Measure of Nonlocality and Quantum Discord of Two Charge Qubits with Phase Decoherence and Dipole-Dipole Interaction. <i>Reports on Mathematical Physics</i> , 2013, 72, 121-132.	0.8	14

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19	Enhancing non-local correlations in a dissipative two-qubit system via dipole-dipole interplay. Quantum Information Processing, 2019, 18, 1.	2.2	14
20	Temporal Quantum Memory and Non-Locality of Two Trapped Ions under the Effect of the Intrinsic Decoherence: Entropic Uncertainty, Trace Norm Nonlocality and Entanglement. Symmetry, 2022, 14, 648.	2.2	13
21	Dynamical characteristic of entropic uncertainty relation in the long-range Ising model with an arbitrary magnetic field. Quantum Information Processing, 2020, 19, 1.	2.2	12
22	Measurement Uncertainty, Purity, and Entanglement Dynamics of Maximally Entangled Two Qubits Interacting Spatially with Isolated Cavities: Intrinsic Decoherence Effect. Entropy, 2022, 24, 545.	2.2	12
23	Thermal effect on the generated quantum correlation between two superconducting qubits. Laser Physics Letters, 2016, 13, 085202.	1.4	10
24	Entropic Uncertainty for Two Coupled Dipole Spins Using Quantum Memory under the Dzyaloshinskii-Moriya Interaction. Entropy, 2021, 23, 1595.	2.2	10
25	Trace-norm correlation beyond entanglement in InAs nanowire system with spin-orbit interaction and external electric field. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 926.	2.1	9
26	Enhancing the Generated Stable Correlation in a Dissipative System of Two Coupled Qubits inside a Coherent Cavity via Their Dipole-Dipole Interplay. Entropy, 2019, 21, 672.	2.2	8
27	Quasi-Probability Husimi-Distribution Information and Squeezing in a Qubit System Interacting with a Two-Mode Parametric Amplifier Cavity. Mathematics, 2020, 8, 1830.	2.2	8
28	Generation of quantum coherence in two-qubit cavity system: qubit-dipole coupling and decoherence effects. Physica Scripta, 2020, 95, 075104.	2.5	8
29	Non-classical correlations in two quantum dots coupled in a coherent resonator field under decoherence. Quantum Information Processing, 2018, 17, 1.	2.2	7
30	Robust correlations in a dissipative two-qubit system interacting with two coupled fields in a non-degenerate parametric amplifier. Quantum Information Processing, 2019, 18, 1.	2.2	7
31	Quantum Fisher Information and Bures Distance Correlations of Coupled Two Charge-Qubits Inside a Coherent Cavity with the Intrinsic Decoherence. Symmetry, 2021, 13, 352.	2.2	7
32	Nonclassical correlations in two-qubit Ising model with an arbitrary magnetic field: Local quantum Fisher information and local quantum uncertainty. European Physical Journal Plus, 2021, 136, 1.	2.6	7
33	Measurement-induced nonlocality and geometric quantum discord in two SC-charge qubits. Optik, 2013, 124, 5369-5372.	2.9	6
34	Quantum effects due to the interaction between $Su(1,1)$ and $Su(2)$ quantum systems with damping. European Physical Journal D, 2017, 71, 1.	1.3	6
35	Non-classical correlations in the general state of two SC-qubit with a phase damping: non-local correlation and geometric discord. Journal of Modern Optics, 2017, 64, 521-530.	1.3	6
36	Stationary quantum correlation and coherence of two-mode Kerr nonlinear coupler interdicting with $Su(2)$ -system under intrinsic damping. Journal of Modern Optics, 2018, 65, 2179-2185.	1.3	6

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37	A nonlinear interaction between SU(1,1) quantum system and a three-level atom in different configurations with damping term. <i>Physica Scripta</i> , 2021, 96, 045105.	2.5	6
38	Influence of the Coupling between Two Qubits in an Open Coherent Cavity: Nonclassical Information via Quasi-Probability Distributions. <i>Entropy</i> , 2019, 21, 1137.	2.2	5
39	Dynamics of quantum coherence and entanglement in an intrinsic noise model of a V-type qutrit system interacting with a coherent field. <i>Physica Scripta</i> , 2020, 95, 085101.	2.5	5
40	Atomic non-locality dynamics of two moving atoms in a hybrid nonlinear system: concurrence, uncertainty-induced non-locality and Bell inequality. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	5
41	Non-local correlation between two coupled qubits interacting nonlinearly with a two-mode cavity: Bell function, Trace norm and Bures distance quantifiers. <i>Physica Scripta</i> , 2021, 96, 025103.	2.5	5
42	Quantum coherence induced by a flux qubit coupled by a resonator coherent field through a two-photon interaction. <i>Physica Scripta</i> , 2021, 96, 125120.	2.5	5
43	Quantifying the non-classical correlation of a two-atom system nonlinearly interacting with a coherent cavity: local quantum Fisher information and Bures distance entanglement. <i>Nonlinear Dynamics</i> , 2021, 104, 2573-2582.	5.2	4
44	Non-classicality of two superconducting-qubits interacting independently with a resonator cavity: trace-norm correlation and Bures-distance entanglement. <i>Journal of Modern Optics</i> , 2021, 68, 1-9.	1.3	4
45	Fisher and Skew Information Correlations of Two Coupled Trapped Ions: Intrinsic Decoherence and Lamb-Dicke Nonlinearity. <i>Symmetry</i> , 2021, 13, 2243.	2.2	4
46	Effect of dissipation and dipole-dipole interplay on Hilbert-Schmidt distance and Bell's inequality correlations of two qubits interacting with two-mode cavity field. <i>Physica Scripta</i> , 2019, 94, 045102.	2.5	3
47	Quantum dynamics of a qutrit in a cavity filled with Kerr-like medium and intrinsic noise. <i>Modern Physics Letters A</i> , 2020, 35, 2050287.	1.2	3
48	Nonclassical Effects Based on Husimi Distributions in Two Open Cavities Linked by an Optical Waveguide. <i>Entropy</i> , 2020, 22, 767.	2.2	3
49	Effect of Stark shift on nonlocal correlation of two atoms in a cavity containing a parametric amplifier and a Kerr like medium. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	3
50	Trace distance discord and Bell-function correlations beyond entanglement in two SC-qubits interacting with a dissipative SC-cavity. <i>Laser Physics</i> , 2020, 30, 055203.	1.2	3
51	Entanglement Dynamics Induced by a Squeezed Coherent Cavity Coupled Nonlinearly with a Qubit and Filled with a Kerr-Like Medium. <i>Entropy</i> , 2021, 23, 496.	2.2	3
52	Intrinsic decoherence effect on quantum coherence dynamics of a qutrit interacting resonantly with a coherent cavity field. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	3
53	Nonclassical atomic system dynamics time-dependently interacts with finite entangled pair coherent parametric converter cavity fields. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	3
54	Dynamics of two coupled qubits interacting with two-photon transitions via a nondegenerate parametric amplifier: nonlocal correlations under intrinsic decoherence. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 3435.	2.1	3

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55	Optimal Periods of Conducting Preventive Maintenance to Reduce Expected Downtime and Its Impact on Improving Reliability. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-11.	1.7	3
56	Robustness of Generated Geometric Phase of Quantum Wells in Two Open Waveguide-Coupled Optical Cavities. <i>IEEE Access</i> , 2020, 8, 158745-158751.	4.2	2
57	Two-Qubit Local Fisher Information Correlation beyond Entanglement in a Nonlinear Generalized Cavity with an Intrinsic Decoherence. <i>Entropy</i> , 2021, 23, 311.	2.2	2
58	Dynamics of entanglement and population inversion of two qubits in a hybrid nonlinear system. <i>Modern Physics Letters A</i> , 2021, 36, 2150037.	1.2	2
59	Control of the Geometric Phase in Two Open Qubit Cavity Systems Linked by a Waveguide. <i>Entropy</i> , 2020, 22, 85.	2.2	2
60	Nonclassicality dynamics of a dissipative cavity field containing two qubits with Kerr medium: Linear and Wehrl phase entropies. <i>Modern Physics Letters A</i> , 2022, 37, .	1.2	2
61	Phase space information in a non-linear quantum system containing a Kerr-like medium through $Su(1, \hat{A}1)$ -algebraic treatment. <i>Journal of Modern Optics</i> , 2018, 65, 960-969.	1.3	1
62	Quantum Correlation and Coherence in Dissipative Two SC-Qubit Systems Interacting with a Coherent SC-Cavity. <i>International Journal of Theoretical Physics</i> , 2019, 58, 3521-3534.	1.2	1
63	Nonlinear Dynamics of a Cavity Containing a Two-Mode Coherent Field Interacting with Two-Level Atomic Systems. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7150.	2.5	1
64	Non-classicality in an open two-mode parametric amplifier cavity containing a \hat{b} -qutrit system. <i>Physica Scripta</i> , 2021, 96, 055102.	2.5	1
65	Generating non-locality correlation via 2-photon resonant interaction of dissipative two-qubit system with coherent field. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	0
66	Wigner Function Non-Classicality Induced in a Charge Qubit Interacting with a Dissipative Field Cavity. <i>Symmetry</i> , 2021, 13, 802.	2.2	0
67	Dynamics of quantum effects of a qubit time-dependently interacting with finite entangled coherent cavity fields. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	0
68	Influence of the nonlinearity of nondegenerate parametric amplifier cavity fields on quantum phenomena of two coupled qubits. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	0