

# Abdel-Baset A Mohamed

## List of Publications by Year in descending order

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213  
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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Temporal Quantum Memory and Non-Locality of Two Trapped Ions under the Effect of the Intrinsic Decoherence: Entropic Uncertainty, Trace Norm Nonlocality and Entanglement. <i>Symmetry</i> , 2022, 14, 648.	2.2	13
4	Non-local correlation dynamics in two-dimensional graphene. <i>Scientific Reports</i> , 2022, 12, 3581.	3.3	15
5	Measurement Uncertainty, Purity, and Entanglement Dynamics of Maximally Entangled Two Qubits Interacting Spatially with Isolated Cavities: Intrinsic Decoherence Effect. <i>Entropy</i> , 2022, 24, 545.	2.2	12
6	Intrinsic decoherence effects on nonclassical correlations in a symmetric spin-orbit model. <i>Results in Physics</i> , 2022, 39, 105693.	4.1	19
7	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
8	Quantum Fisher Information and Bures Distance Correlations of Coupled Two Charge-Qubits Inside a Coherent Cavity with the Intrinsic Decoherence. <i>Symmetry</i> , 2021, 13, 352.	2.2	7
9	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
10	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
11	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
12	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
13	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
14	Wigner Function Non-Classicality Induced in a Charge Qubit Interacting with a Dissipative Field Cavity. <i>Symmetry</i> , 2021, 13, 802.	2.2	0
15	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
16	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
17	Tripartite entropic uncertainty relation under phase decoherence. <i>Scientific Reports</i> , 2021, 11, 11830.	3.3	24
18	Nonclassical correlations in two-qubit Ising model with an arbitrary magnetic field: Local quantum Fisher information and local quantum uncertainty. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	7

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19	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
20	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
21	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
22	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
23	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
24	Entropic Uncertainty for Two Coupled Dipole Spins Using Quantum Memory under the Dzyaloshinskii-Moriya Interaction. <i>Entropy</i> , 2021, 23, 1595.	2.2	10
25	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
26	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
27	Quasi-Probability Husimi-Distribution Information and Squeezing in a Qubit System Interacting with a Two-Mode Parametric Amplifier Cavity. <i>Mathematics</i> , 2020, 8, 1830.	2.2	8
28	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
29	Dynamical characteristic of entropic uncertainty relation in the long-range Ising model with an arbitrary magnetic field. <i>Quantum Information Processing</i> , 2020, 19, 1.	2.2	12
30	Nonclassical Effects Based on Husimi Distributions in Two Open Cavities Linked by an Optical Waveguide. <i>Entropy</i> , 2020, 22, 767.	2.2	3
31	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
32	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
33	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
34	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
35	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
36	Generation of quantum coherence in two-qubit cavity system: qubit-dipole coupling and decoherence effects. <i>Physica Scripta</i> , 2020, 95, 075104.	2.5	8

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37	Quantum Correlation via Skew Information and Bell Function Beyond Entanglement in a Two-Qubit Heisenberg XYZ Model: Effect of the Phase Damping. Applied Sciences (Switzerland), 2020, 10, 3782.	2.5	21
38	Dynamics of quantum coherence and entanglement in an intrinsic noise model of a V-type qutrit system interacting with a coherent field. Physica Scripta, 2020, 95, 085101.	2.5	5
39	A Numerical Algorithm for the Solutions of ABC Singular Lane–Emden Type Models Arising in Astrophysics Using Reproducing Kernel Discretization Method. Mathematics, 2020, 8, 923.	2.2	74
40	Generating non-locality correlation via 2-photon resonant interaction of dissipative two-qubit system with coherent field. European Physical Journal D, 2020, 74, 1.	1.3	0
41	Dynamics of two coupled qubits interacting with two-photon transitions via a nondegenerate parametric amplifier: nonlocal correlations under intrinsic decoherence. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3435.	2.1	3
42	Control of the Geometric Phase in Two Open Qubit–Cavity Systems Linked by a Waveguide. Entropy, 2020, 22, 85.	2.2	2
43	Quantum Correlation and Coherence in Dissipative Two SC-Qubit Systems Interacting with a Coherent SC-Cavity. International Journal of Theoretical Physics, 2019, 58, 3521-3534.	1.2	1
44	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
45	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
46	Enhancing non-local correlations in a dissipative two-qubit system via dipole–dipole interplay. Quantum Information Processing, 2019, 18, 1.	2.2	14
47	Influence of the Coupling between Two Qubits in an Open Coherent Cavity: Nonclassical Information via Quasi-Probability Distributions. Entropy, 2019, 21, 1137.	2.2	5
48	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. Physica Scripta, 2019, 94, 045102.	2.5	3
49	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
50	Bipartite non-classical correlations for a lossy two connected qubit–cavity systems: trace distance discord and Bell’s non-locality. Quantum Information Processing, 2018, 17, 1.	2.2	48
51	Phase space information in a non-linear quantum system containing a Kerr-like medium through $Su(1, \hat{A}1)$ -algebraic treatment. Journal of Modern Optics, 2018, 65, 960-969.	1.3	1
52	Non-classical correlations in two quantum dots coupled in a coherent resonator field under decoherence. Quantum Information Processing, 2018, 17, 1.	2.2	7
53	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
54	Generation and robustness of bipartite non-classical correlations in two nonlinear microcavities coupled by an optical fiber. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 47.	2.1	57

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55	Quantum correlation control for two semiconductor microcavities connected by an optical fiber. <i>Physica Scripta</i> , 2017, 92, 065101.	2.5	47
56	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
57	Quantum effects due to the interaction between $Su(1,1)$ and $Su(2)$ quantum systems with damping. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	6
58	Non-classical correlations in the general state of two SC-qubit with a phase damping: non-local correlation and geometric discord. <i>Journal of Modern Optics</i> , 2017, 64, 521-530.	1.3	6
59	Thermal effect on the generated quantum correlation between two superconducting qubits. <i>Laser Physics Letters</i> , 2016, 13, 085202.	1.4	10
60	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
61	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
62	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
63	Measurement-induced nonlocality and geometric quantum discord in two SC-charge qubits. <i>Optik</i> , 2013, 124, 5369-5372.	2.9	6
64	Pairwise quantum correlations of a three-qubit XY chain with phase decoherence. <i>Quantum Information Processing</i> , 2013, 12, 1141-1153.	2.2	46
65	Quantum correlation of correlated two qubits interacting with a thermal field. <i>Physica Scripta</i> , 2012, 85, 055013.	2.5	26
66	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
67	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
68	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