

Sayed Abdel-Khalek

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8053454/publications.pdf>

Version: 2024-02-01

230
papers

2,404
citations

186265

28
h-index

315739

38
g-index

234
all docs

234
docs citations

234
times ranked

619
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on security threats, vulnerabilities, and counter measures of 5G enabled Internet of Medical Things. IET Communications, 2022, 16, 421-432.	2.2	90
2	Quantum Fisher information for a qubit system placed inside a dissipative cavity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1412-1416.	2.1	77
3	Quantum correlations between each qubit in a two-atom system and the environment in terms of interatomic distance. Physical Review A, 2012, 85, .	2.5	72
4	A two-dimensional image segmentation method based on genetic algorithm and entropy. Optik, 2017, 131, 414-422.	2.9	67
5	New features of the atomic Wehrl entropy and its density in multi-quanta two-level system. Journal of Physics A, 2004, 37, 6573-6585.	1.6	57
6	Beam splitting and entanglement generation: excited coherent states. Quantum Information Processing, 2013, 12, 69-82.	2.2	52
7	Optical soliton solutions for a space-time fractional perturbed nonlinear Schrödinger equation arising in quantum physics. Results in Physics, 2020, 16, 102895.	4.1	49
8	Entanglement evaluation with atomic Fisher information. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 891-898.	2.6	47
9	Geometric phase of a moving three-level atom. Optics Communications, 2010, 283, 1826-1831.	2.1	41
10	Aspects on entropy squeezing of a two-level atom in a squeezed vacuum. Chaos, Solitons and Fractals, 2003, 18, 289-298.	5.1	40
11	Quantum Fisher information for moving three-level atom. Quantum Information Processing, 2013, 12, 3761-3769.	2.2	39
12	Pancharatnam Phase of Two-Mode Optical Fields with Kerr Nonlinearity. Optical Review, 2000, 7, 499-504.	2.0	35
13	Enhanced Differential Crossover and Quantum Particle Swarm Optimization for IoT Applications. IEEE Access, 2021, 9, 93831-93846.	4.2	35
14	Entropy squeezing of a degenerate two-photon process with a nonlinear medium. Journal of Modern Optics, 2003, 50, 2013-2030.	1.3	35
15	Optimal path planning for drones based on swarm intelligence algorithm. Neural Computing and Applications, 2022, 34, 10133-10155.	5.6	35
16	New features of Wehrl entropy and Wehrl PD of a single Cooper-pair box placed inside a dissipative cavity. Annals of Physics, 2010, 325, 2542-2549.	2.8	34
17	Quantum Fisher information for a single qubit system. European Physical Journal D, 2012, 66, 1.	1.3	33
18	Quantum Fisher information flow and entanglement in pair coherent states. Optical and Quantum Electronics, 2014, 46, 1055-1064.	3.3	33

#	ARTICLE	IF	CITATIONS
19	Quantum Entanglement and Geometric Phase of Two Moving Two-Level Atoms. Open Systems and Information Dynamics, 2015, 22, 1550015.	1.2	33
20	Entropy squeezing of time dependent single-mode Jaynes-Cummings model in presence of non-linear effect. Chaos, Solitons and Fractals, 2008, 36, 405-417.	5.1	32
21	Entropy squeezing of a driven two-level atom in a cavity with injected squeezed vacuum. Chaos, Solitons and Fractals, 2005, 26, 1293-1307.	5.1	31
22	The effect of atomic motion and two-quanta JCM on the information entropy. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 779-786.	2.6	31
23	Optimal deep learning based fusion model for biomedical image classification. Expert Systems, 2022, 39, e12764.	4.5	31
24	Entanglement of a two-level atom prepared in a finite tri-coherent state. Laser Physics, 2008, 18, 135-143.	1.2	29
25	Wehrl entropy and Wehrl phase distribution of a single-trapped ion interacting with a laser field. Physica Scripta, 2009, 80, 045302.	2.5	29
26	DYNAMICS OF FISHER INFORMATION IN KERR MEDIUM. International Journal of Quantum Information, 2009, 07, 1541-1548.	1.1	28
27	Atomic Wehrl entropy and negativity as entanglement measures for qudit pure states in a trapped ion. Journal of Russian Laser Research, 2011, 32, 287-297.	0.6	28
28	Information quantifiers™ description of weak field vs. strong field dynamics for a trapped ion in a laser field. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 525-533.	2.6	28
29	Beam splitter entangler for nonlinear bosonic fields. Laser Physics, 2012, 22, 1449-1454.	1.2	28
30	Fisher information due to a phase noisy laser under non-Markovian environment. Annals of Physics, 2014, 351, 952-959.	2.8	28
31	New features of entanglement and other applications of a two-qubit system. Optics Communications, 2010, 283, 4662-4670.	2.1	27
32	Development of Self-Synchronized Drones™ Network Using Cluster-Based Swarm Intelligence Approach. IEEE Access, 2021, 9, 48010-48022.	4.2	27
33	Entanglement of atom-field interaction for nonlinear optical fields. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 628-634.	2.7	26
34	An Intelligent Metaheuristic Binary Pigeon Optimization-Based Feature Selection and Big Data Classification in a MapReduce Environment. Mathematics, 2021, 9, 2627.	2.2	26
35	Dynamics of Wehrl entropy of a degenerate two-photon process with a nonlinear medium. Optical and Quantum Electronics, 2011, 42, 887-897.	3.3	25
36	Entropy evolution of the bimodal field interacting with an effective two-level atom via the Raman transition in Kerr medium. Chaos, Solitons and Fractals, 2001, 12, 2015-2022.	5.1	24

#	ARTICLE	IF	CITATIONS
37	Geometric phase and entanglement for a single qubit interacting with deformed-states superposition. <i>Quantum Information Processing</i> , 2013, 12, 2177-2188.	2.2	23
38	Effects of Kerr Medium and Stark Shift Parameter on Wehrl Entropy and the Field Purity for Two-Photon Jaynes-Cummings Model Under Dispersive Approximation. <i>Journal of Russian Laser Research</i> , 2019, 40, 20-29.	0.6	23
39	A Novel Enhanced Quantum PSO for Optimal Network Configuration in Heterogeneous Industrial IoT. <i>IEEE Access</i> , 2021, 9, 134022-134036.	4.2	23
40	Ensemble of Deep Learning Based Clinical Decision Support System for Chronic Kidney Disease Diagnosis in Medical Internet of Things Environment. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-13.	1.7	22
41	Analysis of fractional COVID-19 epidemic model under Caputo operator. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 7944-7964.	2.3	21
42	Effect of the time-dependent coupling on a superconducting qubit-field system under decoherence: Entanglement and Wehrl entropy. <i>Annals of Physics</i> , 2015, 361, 247-258.	2.8	20
43	Effects of Stark shift and decoherence terms on the dynamics of phase-space entropy of the multiphoton Jaynes-Cummings model. <i>Physica Scripta</i> , 2012, 86, 055009.	2.5	19
44	Fisher information and quantum state estimation of two-coupled atoms in presence of two external magnetic fields. <i>Results in Physics</i> , 2017, 7, 4318-4323.	4.1	18
45	Machine learning techniques in internet of UAVs for smart cities applications. <i>Journal of Intelligent and Fuzzy Systems</i> , 2022, 42, 3203-3226.	1.4	18
46	Computational Intelligence-Based Harmony Search Algorithm for Real-Time Object Detection and Tracking in Video Surveillance Systems. <i>Mathematics</i> , 2022, 10, 733.	2.2	18
47	Tumor edge detection in mammography images using quantum and machine learning approaches. <i>Neural Computing and Applications</i> , 2021, 33, 7773-7784.	5.6	17
48	Effect of Time Dependent Coupling on the Dynamical Properties of the Nonlocal Correlation Between Two Three-Level Atoms. <i>International Journal of Theoretical Physics</i> , 2017, 56, 2898-2910.	1.2	16
49	Geometric Phase and Entanglement of a Three-Level Atom With and Without Rotating Wave Approximation. <i>Brazilian Journal of Physics</i> , 2018, 48, 9-15.	1.4	16
50	Entanglement of a nonlinear two two-level atoms interacting with deformed fields in Kerr medium. <i>Pramana - Journal of Physics</i> , 2018, 90, 1.	1.8	15
51	Effects of the vibrating graphene membrane and the driven classical field on an atomic system coupled to a cavity field. <i>Results in Physics</i> , 2021, 31, 105012.	4.1	15
52	The atomic Wehrl entropy of a V-type three-level atom interacting with two-mode squeezed vacuum state. <i>Journal of Russian Laser Research</i> , 2009, 30, 146-156.	0.6	14
53	Physical and nonclassical properties of the interaction between a four-level atom and field in coherent state of Morse potential. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	3.3	14
54	An optimized link state routing protocol for real-time application over Vehicular Ad-hoc Network. <i>AJ - Alexandria Engineering Journal</i> , 2022, 61, 4541-4556.	6.4	14

#	ARTICLE	IF	CITATIONS
55	Quality of Services Based on Intelligent IoT WLAN MAC Protocol Dynamic Real-Time Applications in Smart Cities. Computational Intelligence and Neuroscience, 2021, 2021, 1-20.	1.7	14
56	Correlation and entanglement of a three-level atom inside a dissipative cavity. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 2626-2635.	2.6	13
57	Quantum Fisher Information of a Teleported State in Heisenberg XYZ Chain With Magnetic Field and Kaplan-Shekhtman-Entin-Wohlman-Aharony Interaction. IEEE Access, 2021, 9, 51325-51331.	4.2	13
58	A Comprehensive Review on the Optical Micro-Electromechanical Sensors for the Biomedical Application. Frontiers in Public Health, 2021, 9, 759032.	2.7	13
59	Investigations of information quantifiers for the Tavis-Cummings model. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 6624-6632.	2.6	12
60	Quantum correlations between each two-level system in a pair of atoms and general coherent fields. Results in Physics, 2016, 6, 780-788.	4.1	12
61	Entanglement and photon statistics of two dipole-dipole coupled superconducting qubits with Kerr-like nonlinearities. Results in Physics, 2020, 16, 102978.	4.1	12
62	Quantum correlations and non-classical properties for two superconducting qubits interacting with a quantized field in the context of deformed Heisenberg algebra. Chaos, Solitons and Fractals, 2021, 143, 110466.	5.1	12
63	Thermal information and teleportation in two-qutrit Heisenberg XX chain model. AEJ - Alexandria Engineering Journal, 2022, 61, 8335-8342.	6.4	12
64	The master equation for a two-level atom in a laser field with squeezing-like terms. Optics Communications, 2009, 282, 914-921.	2.1	11
65	Dynamics of Entanglement between Moving Four-Level Atom and Single Mode Cavity Field. International Journal of Theoretical Physics, 2011, 50, 562-570.	1.2	11
66	New Approach to Image Edge Detection Based on Quantum Entropy. Journal of Russian Laser Research, 2016, 37, 141-154.	0.6	11
67	Fusion-Based Deep Learning with Nature-Inspired Algorithm for Intracerebral Haemorrhage Diagnosis. Journal of Healthcare Engineering, 2022, 2022, 1-12.	1.9	11
68	An Empirical Model to Predict the Diabetic Positive Using Stacked Ensemble Approach. Frontiers in Public Health, 2021, 9, 792124.	2.7	11
69	Entanglement Sudden Death and Sudden Birth in Semiconductor Microcavities. International Journal of Theoretical Physics, 2011, 50, 2939-2950.	1.2	10
70	Dynamics of a moving five-level atom interacting with cavity fields. Journal of Russian Laser Research, 2011, 32, 86.	0.6	10
71	Entanglement and physical attributes of the interaction between two SC-qubits and thermal field in the presence of a magnetic field. Microelectronics Journal, 2019, 86, 15-21.	2.0	10
72	Quantum Entropy and Statistical Properties of the Radiation Field for Photonic Binomial and Even Binomial Distributions. Journal of Russian Laser Research, 2020, 41, 334-343.	0.6	10

#	ARTICLE	IF	CITATIONS
73	An intelligent outlier detection with machine learning empowered big data analytics for mobile edge computing. Cluster Computing, 2023, 26, 71-83.	5.0	10
74	Nonlocal correlations for manifold quantum systems: Entanglement of two-spin states. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 45, 21-27.	2.7	9
75	New features of a single-mode nonlinear Stark shift in the presence of phase damping. Optics Communications, 2012, 285, 2675-2681.	2.1	9
76	Measures of nonclassicality for a two-level atom interacting with power-law potential field under decoherence effect. Laser Physics, 2016, 26, 095201.	1.2	9
77	New features of the stationary and moving atom's atom entanglement. Optik, 2016, 127, 9020-9025.	2.9	9
78	Entanglement and entropy squeezing in the system of two qubits interacting with a two-mode field in the context of power law potentials. Scientific Reports, 2020, 10, 19600.	3.3	9
79	Emission spectrum and geometric phase in deformed Jaynes-Cummings model. Results in Physics, 2020, 16, 102924.	4.1	9
80	Cluster mechanism for sensing data report using robust collaborative distributed spectrum sensing. Cluster Computing, 2022, 25, 2541-2556.	5.0	9
81	Inferences for Joint Hybrid Progressive Censored Exponential Lifetimes under Competing Risk Model. Mathematical Problems in Engineering, 2021, 2021, 1-12.	1.1	9
82	Entropy squeezing of a degenerate two-photon process with a nonlinear medium. Journal of Modern Optics, 2003, 50, 2013-2030.	1.3	9
83	Modeling of Hyperparameter Tuned Deep Learning Model for Automated Image Captioning. Mathematics, 2022, 10, 288.	2.2	9
84	Sudden Death, Sudden Birth, and Nonclassical Effects of Photon-Added Power-Law Potential Within the Framework of Subsystem-Environment Correlations. Journal of Russian Laser Research, 2016, 37, 45-61.	0.6	8
85	On the computational and numerical solutions of the transmission of nerve impulses of an excitable system (the neuron system). Journal of Intelligent and Fuzzy Systems, 2020, 38, 2603-2610.	1.4	8
86	Genetic algorithm and numerical methods for solving linear and nonlinear system of equations: a comparative study. Journal of Intelligent and Fuzzy Systems, 2020, 38, 2867-2872.	1.4	8
87	Tavis's Cummings Model with Moving Atoms. Entropy, 2021, 23, 452.	2.2	8
88	Entropy squeezing and atomic Wehrl density for the interaction between SU(1,1) Lie algebra and a three-level atom in presence of laser field. Results in Physics, 2021, 30, 104759.	4.1	8
89	Novel Approach of Edges Detection for Digital Images Based On Hybrid Types of Entropy. Applied Mathematics and Information Sciences, 2013, 7, 1809-1817.	0.5	8
90	Intelligent Deep Learning Enabled Oral Squamous Cell Carcinoma Detection and Classification Using Biomedical Images. Computational Intelligence and Neuroscience, 2022, 2022, 1-11.	1.7	8

#	ARTICLE	IF	CITATIONS
91	Analysis of mixed state entanglement with intrinsic decoherence. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 6-11.	2.7	7
92	Geometric phase and entanglement of Raman photon pairs in the presence of photonic band gap. Journal of Applied Physics, 2015, 117, .	2.5	7
93	Entanglement and Pancharatnam Phase of a Four-Level Atom in Coherent States Within Generalized Heisenberg Algebra. Journal of Russian Laser Research, 2017, 38, 134-140.	0.6	7
94	Physical Properties, Field Purity, and Quantum Phase for a Two-Level Atom in Photon-Added Coherent States for the Morse Potential. Journal of Russian Laser Research, 2017, 38, 437-445.	0.6	7
95	Entanglement of an $su(1, 1)$ Quantum System Interacting with a Single Two-Level Atom in the Presence of Damping Terms. Journal of Russian Laser Research, 2018, 39, 505-513.	0.6	7
96	Quantum scheme for N-level atom interacting with a two two-level atom: Atomic Fisher information and entropy squeezing. AEJ - Alexandria Engineering Journal, 2020, 59, 1259-1264.	6.4	7
97	Quantum Entanglement and Information Quantifier for Correlated and Uncorrelated Two-Mode Field State. Applied Mathematics and Information Sciences, 2015, 9, 345-351.	0.5	7
98	Wehrl Entropy, Entropy Squeezing and Nonlocal Correlation of Moving Atoms in Squeezed Coherent Field. Applied Mathematics and Information Sciences, 2017, 11, 1455-1461.	0.5	7
99	Generalized \pm -Entropy Based Medical Image Segmentation. Journal of Software Engineering and Applications, 2014, 07, 62-67.	1.1	7
100	Propagation of some new traveling wave patterns of the double dispersive equation. Open Physics, 2022, 20, 130-141.	1.7	7
101	Dynamic properties of wehrl information entropy and wehrl phase distribution for a moving four-level atom. Journal of Russian Laser Research, 2012, 33, 547-558.	0.6	6
102	Engineering geometric phase in semiconductor microcavities. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 64, 112-116.	2.7	6
103	Dynamical properties of moving atom's atom entanglement and entanglement between two atoms with optical field. Pramana - Journal of Physics, 2015, 85, 1089-1099.	1.8	6
104	Quantum Fisher Information and Tomographic Entropy of a Single Qubit in Excited Binomial and Negative Binomial Distributions. Journal of Russian Laser Research, 2019, 40, 313-320.	0.6	6
105	Nonclassical properties and field entropy squeezing of the dissipative two-photon JCM under Kerr like medium based on dispersive approximation. Optics and Laser Technology, 2019, 111, 523-529.	4.6	6
106	Quantum correlations and quantum Fisher information of two qubits in the presence of the time-dependent coupling effect. European Physical Journal Plus, 2020, 135, 1.	2.6	6
107	Scheduling Algorithm for Grid Computing Using Shortest Job First with Time Quantum. Intelligent Automation and Soft Computing, 2022, 31, 581-590.	2.1	6
108	Quantum neural network-based multilabel image classification in high-resolution unmanned aerial vehicle imagery. Soft Computing, 2023, 27, 13027-13038.	3.6	6

#	ARTICLE	IF	CITATIONS
109	ATOMIC WEHRL ENTROPY OF A SINGLE QUBIT SYSTEM. International Journal of Quantum Information, 2011, 09, 967-979.	1.1	5
110	New Aspects of Field Entropy Squeezing as an Indicator for Mixed State Entanglement in an Effective Two-Level System with Stark Shift. Chinese Physics Letters, 2011, 28, 120305.	3.3	5
111	Information entropy and entanglement of a superconducting qubit coupled to a cavity field with its spontaneous decay. Optical and Quantum Electronics, 2013, 45, 1287-1295.	3.3	5
112	Nonclassical properties and purity of a qubit system in photon-added squeezed thermal states with time-dependent coupling effect. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 84, 361-366.	2.7	5
113	Entanglement, nonclassical properties, and geometric phase in circuit quantum electrodynamics with relativistic motion. Solid State Communications, 2019, 290, 31-36.	1.9	5
114	Nonclassical and Nonlocal Properties of a Superconducting Qubit in the Presence of a Kerr-Like Medium Under Decoherence Effect. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1971-1978.	1.8	5
115	Quantumness Measures for a System of Two Qubits Interacting with a Field in the Presence of the Time-Dependent Interaction and Kerr Medium. Entropy, 2021, 23, 635.	2.2	5
116	New Monotonic Properties of Positive Solutions of Higher-Order Delay Differential Equations and Their Applications. Mathematics, 2022, 10, 1786.	2.2	5
117	GEOMETRIC PHASE AND DISENTANGLEMENT OF A MOVING FOUR-LEVEL ATOM IN THE PRESENCE OF NONLINEAR MEDIUM. International Journal of Quantum Information, 2012, 10, 1250007.	1.1	4
118	A geometric phase for superconducting qubits under the decoherence effect. Chinese Physics B, 2013, 22, 100301.	1.4	4
119	New aspects of the interaction between two atoms and nonlinear optical fields. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 57, 35-41.	2.7	4
120	Information dynamics for a non-degenerate two-photon JC model in phase damping cavity. Optik, 2016, 127, 3266-3270.	2.9	4
121	Interaction between two two-level atoms coupled to N-level quantum system. Optical and Quantum Electronics, 2019, 51, 1.	3.3	4
122	Beam-target double spin asymmetries in the reaction $\hat{I}^3d \hat{\alpha}t' \hat{I}^{\epsilon}Od$ near threshold and the role of D-wave component of the deuteron wave function. Brazilian Journal of Physics, 2020, 50, 615-624.	1.4	4
123	Interaction of a three-level atom and a field with a time-varying frequency in the context of triangular well potentials: An exact treatment. Chaos, Solitons and Fractals, 2020, 139, 109784.	5.1	4
124	Quantum Fisher information and nonclassical properties of a two-atom interacting with a radiation field in squeezed coherent states. Optical and Quantum Electronics, 2020, 52, 1.	3.3	4
125	Atomic Fisher information and entanglement forecasting for quantum system based on artificial neural network and time series model. International Journal of Quantum Chemistry, 2021, 121, e26446.	2.0	4
126	Nonlocality and coherence in double quantum dot systems. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 130, 114679.	2.7	4

#	ARTICLE	IF	CITATIONS
127	Dynamics and Robust Control of a New Realizable Chaotic Nonlinear Model. Complexity, 2021, 2021, 1-17.	1.6	4
128	An Improved Bald Eagle Search Algorithm with Deep Learning Model for Forest Fire Detection Using Hyperspectral Remote Sensing Images. Canadian Journal of Remote Sensing, 2022, 48, 609-620.	2.4	4
129	Applications of the master equation of a two-level atom in a narrow-bandwidth squeezed vacuum. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3961-3968.	2.6	3
130	Interplay of information quantifiers and the modified Jaynes-Cummings model. Open Physics, 2011, 9, .	1.7	3
131	A NEW PARAMETER OF ENTANGLEMENT FOR A QUBIT SYSTEM PLACED INSIDE A DISSIPATIVE CAVITY. International Journal of Quantum Information, 2011, 09, 1091-1100.	1.1	3
132	Atomic Phase Space Entropy and Entanglement Quantifier Between a Two-Level Atom and Squeezed Field in the Presence of Decoherence. Journal of Computational and Theoretical Nanoscience, 2014, 11, 1499-1504.	0.4	3
133	Generalized Heisenberg Algebra Coherent States for Nonharmonic Oscillators. International Journal of Theoretical Physics, 2015, 54, 1470-1480.	1.2	3
134	Realistic Quantum Control of Energy Transfer in Photosynthetic Processes. Energies, 2016, 9, 1063.	3.1	3
135	Dynamical Properties of Some Statistical Quantities for a Quantum System in Generalized Negative Binomial States. Journal of Russian Laser Research, 2018, 39, 105-112.	0.6	3
136	Fisher Information and Statistical Properties of Two Qubits in Two Modes of the Gaussian Distribution. Journal of Russian Laser Research, 2018, 39, 216-221.	0.6	3
137	Optical tomography for excited coherent states associated to deformed oscillators. Results in Physics, 2019, 14, 102352.	4.1	3
138	Effects of Energy Dissipation and Deformation Function on the Entanglement, Photon Statistics and Quantum Fisher Information of Three-Level Atom in Photon-Added Coherent States for Morse Potential. Symmetry, 2021, 13, 2188.	2.2	3
139	Coherence Trapping in Open Two-Qubit Dynamics. Symmetry, 2021, 13, 2445.	2.2	3
140	Quantum Coherence and Degree of Mixedness for a System of Two Superconducting Qubits Under Decoherence Conditions. Journal of Russian Laser Research, 2022, 43, 139.	0.6	3
141	3D Input Convolutional Neural Network for SSVEP Classification in Design of Brain Computer Interface for Patient User. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-6.	1.3	3
142	Leveraging Tweets for Artificial Intelligence Driven Sentiment Analysis on the COVID-19 Pandemic. Healthcare (Switzerland), 2022, 10, 910.	2.0	3
143	Entanglement in the Bimodal Jaynes-Cummings Model with the Two-Mode Squeezed Vacuum State. International Journal of Theoretical Physics, 2008, 47, 1182-1194.	1.2	2
144	Bipartite entanglement within the framework of real and ideal lasers. Journal of Russian Laser Research, 2012, 33, 276-282.	0.6	2

#	ARTICLE	IF	CITATIONS
145	Pancharatnam and total phases for one-dimensional photonic band gaps. Journal of Russian Laser Research, 2012, 33, 437-447.	0.6	2
146	Entropy squeezing for qubit $\hat{\rho}$ field system under decoherence effect. Quantum Electronics, 2014, 44, 274-278.	1.0	2
147	Effects of detuning and atomic motion parameter on the dynamical behavior of the entanglement between two-level atom and SU(1,1) quantum system. Optical Review, 2015, 22, 25-32.	2.0	2
148	Entropy squeezing for qubit $\hat{\rho}$ field system in the presence multi-photon process under decoherence effect. Optical and Quantum Electronics, 2015, 47, 267-278.	3.3	2
149	Quantum Phase and Field Purification for Quantum System in Coherent States Based on Generalized Heisenberg Algebra. Journal of Russian Laser Research, 2016, 37, 345-352.	0.6	2
150	Entanglement, nonclassical properties and geometric phase of Raman photon pairs in the presence of time-dependent coupling. Results in Physics, 2016, 6, 407-413.	4.1	2
151	Quantum Phase and Nonlocal Correlations for a Three-Level System Interacting with Laser Light in a Nonlinear Kerr Medium Under Decoherence. Journal of Russian Laser Research, 2017, 38, 124-133.	0.6	2
152	Engineering entanglement, geometric phase, and quantum Fisher information of a three-level system with energy dissipation. Mathematical Methods in the Applied Sciences, 2020, 44, 12120.	2.3	2
153	Response of quantum Fisher information, variance entropy squeezing and entanglement to the intrinsic decoherence of two non-degenerate fields interacting with two qubits. AEJ - Alexandria Engineering Journal, 2020, 59, 5147-5154.	6.4	2
154	Time-dependent interaction between a two-level atom and bimodal electromagnetic field. Optical and Quantum Electronics, 2020, 52, 1.	3.3	2
155	Statistical properties and nonlocal correlation between a two qubits and optical field in the even deformed binomial distribution. Journal of Intelligent and Fuzzy Systems, 2020, 38, 2737-2744.	1.4	2
156	Two-level atom and quantum system entanglement and squeezing with and without classical field and damping effects. Journal of Intelligent and Fuzzy Systems, 2020, 38, 2817-2822.	1.4	2
157	Entangled Pair of the su(1) Quantum Systems Interacting with Two Two-Level Atoms. Journal of Russian Laser Research, 2020, 41, 30-39.	0.6	2
158	Emission Spectrum and Nonclassical Properties of an Atom $\hat{\rho}$ Field System Under an Intensity-Dependent Field. Journal of Russian Laser Research, 2020, 41, 23-29.	0.6	2
159	Dephasing Process of a Single Atom Interacting with a Two-Mode Field. Entropy, 2021, 23, 252.	2.2	2
160	On a thermoelastic magnetized half-space problem considering presence and absence of rotation in the context of GN (II) model. Mechanics Based Design of Structures and Machines, 0, , 1-21.	4.7	2
161	Multilevel segmentation of medical images in the framework of quantum and classical techniques. Multimedia Tools and Applications, 2023, 82, 13167-13180.	3.9	2
162	Quantum scheme of dissipative two qubits in a squeezed field: Entanglement and Fisher information. AEJ - Alexandria Engineering Journal, 2021, 60, 3411-3417.	6.4	2

#	ARTICLE	IF	CITATIONS
163	Dynamical properties of quantum Fisher information of a two-level atoms interacting with two-mode superposition coherent state. AEJ - Alexandria Engineering Journal, 2021, 60, 3751-3757.	6.4	2
164	Dynamics of skew information correlations in two coupled qubit-systems under the high nonlinearity of a parametric amplifier: Intrinsic decoherence model. Physica A: Statistical Mechanics and Its Applications, 2021, 580, 126125.	2.6	2
165	Dynamic of Scaled Atomic Phase Entropy of a Single Two-Level Atom Interaction with SU(1,1) Quantum System. Applied Mathematics and Information Sciences, 2014, 8, 1093-1098.	0.5	2
166	Some Statistical Quantities of a Quantum System in Hypergeometric and Negative Hypergeometric Distributions. Applied Mathematics and Information Sciences, 2016, 10, 657-662.	0.5	2
167	Nonclassicality dynamics of a dissipative cavity field containing two qubits with Kerr medium: Linear and Wehrl phase entropies. Modern Physics Letters A, 2022, 37, .	1.2	2
168	Quantum Coherence of Atoms with Dipole-Dipole Interaction and Collective Damping in the Presence of an Optical Field. Symmetry, 2021, 13, 2327.	2.2	2
169	On the interaction between \hat{b} -type five-level atom and one-mode squeezed coherent field. Results in Physics, 2022, , 105739.	4.1	2
170	Recognition of Hand Gesture Using Electromyography Signal: Human-Robot Interaction. Journal of Sensors, 2022, 2022, 1-9.	1.1	2
171	WEHRL ENTROPY AND ENTANGLEMENT OF A TIME-DEPENDENT TWO-LEVEL TRAPPED ION INTERACTING WITH A LASER FIELD. International Journal of Quantum Information, 2008, 06, 331-339.	1.1	1
172	ENTANGLEMENT FOR JAYNES CUMMINGS MODEL IN THE PRESENCE MULTI-PHOTON PROCESS UNDER DECOHERENCE EFFECT. International Journal of Quantum Information, 2013, 11, 1350026.	1.1	1
173	Some statistical properties for a moving three-level atom in interaction with a bimodal cavity field. European Physical Journal Plus, 2013, 128, 1.	2.6	1
174	Nonlocal Correlations of Moving Three-level Atoms in Photon-added Squeezed Thermal States. Journal of Russian Laser Research, 2014, 35, 193-199.	0.6	1
175	The geometric phase of a two-level atom in a narrow-bandwidth squeezed vacuum. Optik, 2014, 125, 6335-6339.	2.9	1
176	Entanglement for Moving Three-Level Atom Under Decoherence Effect. Journal of Computational and Theoretical Nanoscience, 2015, 12, 3970-3976.	0.4	1
177	Interplay of Fisher information flow and nonlocal correlation based on quantum state estimation. Optical and Quantum Electronics, 2015, 47, 2231-2240.	3.3	1
178	Entanglement for a Two-Level Atomic System Interacting with Two-Mode Spin States. Journal of Russian Laser Research, 2016, 37, 337-344.	0.6	1
179	Quantum quantifiers of Raman photon pairs with relativistic motion. Optical and Quantum Electronics, 2018, 50, 1.	3.3	1
180	Interaction of a Three-Level Atom and Field in a Squeezed Vacuum State with Added Photons: Quantum Phase and Nonclassical Properties. Journal of Russian Laser Research, 2018, 39, 12-19.	0.6	1

#	ARTICLE	IF	CITATIONS
181	Some features of the geometric phase and entanglement of three-level atom under cavity damping effects. <i>Indian Journal of Physics</i> , 2020, 94, 1691-1698.	1.8	1
182	Entanglement and atomic Fisher information of a two qubits and optical field in squeezed thermal state. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 38, 2435-2441.	1.4	1
183	Quantum phase and nonclassical properties of a two qubits interacting with a radiation field in PACS-PHO. <i>Optik</i> , 2020, 221, 165225.	2.9	1
184	Interaction of a superconducting qubit and a nonlinear field under energy dissipative effect: entanglement and nonclassical properties. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	1
185	Emission Spectrum and Fidelity of an Atomic System Coupled to Fields with Level Energy Differences. <i>Journal of Russian Laser Research</i> , 2020, 41, 327-333.	0.6	1
186	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
187	Mathematical Modeling on Rotational Magneto-Thermoelastic Phenomenon under Gravity and Laser Pulse considering Four Theories. <i>Complexity</i> , 2021, 2021, 1-15.	1.6	1
188	Entanglement of General Two-Qubit States in a Realistic Framework. <i>Symmetry</i> , 2021, 13, 386.	2.2	1
189	Properties of Pancharatnam Phase and Entanglement of a Five-Level Atom Interacting with a Squeezed Field. <i>Journal of Russian Laser Research</i> , 2021, 42, 146-153.	0.6	1
190	Influence of the dissipation on the N-level atom interacting with a two two-level atoms in presence of qubit-qubit interaction. <i>Scientific Reports</i> , 2021, 11, 7345.	3.3	1
191	10.1007/s11490-008-2007-9. , 2010, 18, 135.		1
192	Pancharatnam Phase and Field Purity of a Three-Level Atom in Nonlinear Kerr Medium Field Based on Generalized Heisenberg Algebra. <i>Journal of Computational and Theoretical Nanoscience</i> , 2017, 14, 965-971.	0.4	1
193	Entanglement and Statistical Properties of a System Consisting of Three-Level Atom Interacting with a Nonlinear Kerr Medium Field. <i>Acta Physica Polonica A</i> , 2016, 129, 1083-1088.	0.5	1
194	Quantum Information Features Attendant to Atomic Spontaneous Decay. <i>Applied Mathematics and Information Sciences</i> , 2014, 8, 1167-1172.	0.5	1
195	Some Features of Quantum Fisher Information and Entanglement of Two Atoms Based on Atomic State Estimation. <i>Applied Mathematics and Information Sciences</i> , 2017, 11, 677-681.	0.5	1
196	Entropy and Entanglement of Moving Two Atoms in a Squeezed Field via Four-Photon Process. <i>Natural Science</i> , 2014, 06, 487-494.	0.4	1
197	COVID-19 Identification System Using Transfer Learning Technique With Mobile-NetV2 and Chest X-Ray Images. <i>Frontiers in Public Health</i> , 2022, 10, 819156.	2.7	1
198	Thermal Fisher information and entropy squeezing for superconducting qubits. <i>Results in Physics</i> , 2022, , 105639.	4.1	1

#	ARTICLE	IF	CITATIONS
199	WEHRL ENTROPY OF A MIXED STATE THREE-LEVEL ATOM INTERACTING WITH A CAVITY FIELD. International Journal of Nanoscience, 2010, 09, 623-630.	0.7	0
200	Dynamical Properties of Scaled Atomic Wehrl Entropy of Multiphoton JCM in the Presence of Atomic Damping. Advances in Condensed Matter Physics, 2013, 2013, 1-7.	1.1	0
201	Fisher Information Flow and Bifurcation Properties of Wehrl Entropy of a Single Qubit System Under the Damping Effect. Journal of Russian Laser Research, 2014, 35, 590-601.	0.6	0
202	Total Phase and Light Squeezing for a Two-Level System in a New Nonlinear Coherent State. Journal of Russian Laser Research, 2015, 36, 320-328.	0.6	0
203	Numerical Study of Some Statistical Quantities for Quantum Systems Under Damping Effects. Journal of Russian Laser Research, 2016, 37, 219-226.	0.6	0
204	Quantum transfer energy in the framework of time-dependent dipole-dipole interaction. Results in Physics, 2018, 8, 89-92.	4.1	0
205	Atomic Phase Space Entropy, Squeezing and Purification Properties of a Two Coupled Superconducting Qubits in Solid State Systems. Journal of Computational and Theoretical Nanoscience, 2018, 15, 373-379.	0.4	0
206	Quantum correlation and non-classical properties in semiconductor microcavities for multi-photon excitation. International Journal of Quantum Information, 2019, 17, 1950047.	1.1	0
207	Some features of the nonlocal correlation and geometric phase of the quantum system in two-mode nondegenerate entangled states. Journal of Mathematical Chemistry, 2020, 58, 939-949.	1.5	0
208	Entanglement, photon statistics and Wehrl entropy for a time-dependent qubit-field system in the presence of phase decoherence effect. Optik, 2020, 206, 163579.	2.9	0
209	Effects of a high nonlinear interaction between an open parametric amplifier cavity and a qubit on dynamics of the correlation function and quantum Fisher information. Solid State Communications, 2020, 322, 114075.	1.9	0
210	Information quantifiers for trapped ion in a carrier excitation laser field. Modern Physics Letters A, 2020, 35, 2050235.	1.2	0
211	Information Entropy Squeezing and Non-local Correlation Between a Two-Level Atom and Two-Mode Field Under the Classical Field Effect. Frontiers in Physics, 2020, 8, .	2.1	0
212	Quantum correlation and statistical properties in semiconductor microcavities with time-varying coupling effect. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114936.	3.5	0
213	Quantum Features of Atom-Field Systems in the Framework of Deformed Fields. Applied Sciences (Switzerland), 2021, 11, 408.	2.5	0
214	Characteristics of the temporal behavior of quantum Fisher information and entanglement between radiation field and two atoms under atomic motion effect. Modern Physics Letters B, 2021, 35, 2150259.	1.9	0
215	Effect of a deformed cavity on a time-dependent quantum system containing an entangled two modes.. Results in Physics, 2021, 23, 104039.	4.1	0
216	Properties of transient spectrum and field purity for a qubit system in squeezed states. Results in Physics, 2021, 26, 104297.	4.1	0

#	ARTICLE	IF	CITATIONS
217	Multi-objective reference point based enriched swarm optimization with an application to blood supply chain under natural disaster. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021, 41, 715-733.	1.4	0
218	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
219	Dynamics and Properties of Fixed Point for Quantum Search Algorithm Based on Phase Shift. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 4661-4666.	0.4	0
220	New Perspectives on Nonlinear Multi-Atoms Interacting with a Cavity Field. <i>Applied Mathematics and Information Sciences</i> , 2016, 10, 421-429.	0.5	0
221	Geometric Phase and Entanglement of SC-Qubit Deformed Bosonic Field. <i>Journal of Computational and Theoretical Nanoscience</i> , 2017, 14, 918-924.	0.4	0
222	Numerical Investigation of Phase Space Entropy for a Quantum System in Kerr Medium Under Cavity Damping Effects. <i>Journal of Computational and Theoretical Nanoscience</i> , 2017, 14, 3953-3957.	0.4	0
223	Einstein-Podolsky-Rosen Steering for Mixed Entangled Coherent States. <i>Entropy</i> , 2021, 23, 1442.	2.2	0
224	Digital System Design for Quantum Error Correction Codes. <i>Contrast Media and Molecular Imaging</i> , 2021, 2021, 1-8.	0.8	0
225	Entanglement and geometric phase of the coherent field interacting with a three two-level atoms in the presence of non-linear terms. <i>Thermal Science</i> , 2020, 24, 39-48.	1.1	0
226	Influence of classical field on entanglement and photon statistics of n-level atom interacting with a two two-level atom. <i>Thermal Science</i> , 2020, 24, 177-186.	1.1	0
227	Magnetic field on surface waves propagation in gravitational thermoelastic media with two temperature and initial stress in the context of three theories. <i>Thermal Science</i> , 2020, 24, 285-299.	1.1	0
228	Comparison of Different Confidence Intervals under Type-I Censoring Scheme. <i>Journal of Mathematics</i> , 2022, 2022, 1-9.	1.0	0
229	A deformed model for N-type four-level atom and a single mode field system in the presence of the Kerr medium. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	3.3	0
230	Effect of relativistic motion on superconducting quantum bits under decoherence. <i>Results in Physics</i> , 2022, 38, 105402.	4.1	0