Xue-xiang Xu

List of Publications by Year
in descending order

52 papers	425 citations	933447 10 h-index	794594 19 g-index
52 all docs	52 docs citations	52 times ranked	114 citing authors

#	Article	IF	Citations
1	Photon-subtracted squeezed thermal state: Nonclassicality and decoherence. Physical Review A, 2010, 82, .	2.5	104
2	Photon-added squeezed thermal states: Statistical properties and its decoherence in a photon-loss channel. Optics Communications, 2010, 283, 1801-1809.	2.1	40
3	Enhancing quantum entanglement and quantum teleportation for two-mode squeezed vacuum state by local quantum-optical catalysis. Physical Review A, 2015, 92, .	2.5	40
4	Synthesis of Hermite polynomial excited squeezed vacuum states from two separate single-mode squeezed vacuum states. Optics Communications, 2015, 356, 223-229.	2.1	20
5	Generating single-photon catalyzed coherent states with quantum-optical catalysis. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2342-2348.	2.1	18
6	Quantum interference between an arbitrary-photon Fock state and a coherent state. Journal of Modern Optics, 2012, 59, 1624-1633.	1.3	16
7	Thermal state truncation by using quantum-scissors device. Optics Communications, 2017, 382, 127-131.	2.1	13
8	Nonclassicality and Decoherence of Photon-Subtraction Squeezing-Enhanced Thermal State. International Journal of Theoretical Physics, 2012, 51, 3330-3343.	1.2	11
9	Kraus Operator-Sum Representation and Time Evolution of Distribution Functions in Phase-Sensitive Reservoirs. International Journal of Theoretical Physics, 2012, 51, 331-349.	1.2	11
10	Measurement-induced nonclassical state from two-mode squeezed vacuum states via beam splitter and its entanglement properties. Laser Physics Letters, 2019, 16, 105202.	1.4	11
11	FLUCTUATIONS AT FINITE TEMPERATURE AND THERMODYNAMICS OF MESOSCOPIC RLC CIRCUIT CALCULATED BY USING GENERALIZED THERMAL VACUUM STATE. Modern Physics Letters B, 2011, 25, 2353-2361.	1.9	10
12	Optical Parametric Amplification of Single Photon: Statistical Properties and Quantum Interference. International Journal of Theoretical Physics, 2014, 53, 1601-1613.	1.2	10
13	Measurement-induced nonclassical states from a coherent state heralded by Knill–Laflamme–Milburn-type interference. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 1322.	2.1	10
14	Dynamics and nonclassical properties of an opto-mechanical system prepared in four-headed cat state and number state. Optics Communications, 2016, 369, 179-188.	2.1	7
15	Nonclassicality of Coherent Photon-Subtracted Two Single-Modes Squeezed Vacuum State. International Journal of Theoretical Physics, 2013, 52, 2886-2903.	1.2	6
16	An easy measure of quantum correlation. Quantum Information Processing, 2015, 14, 4103-4112.	2.2	6
17	Induced States from Coherent State via Photon-Addition Operations. International Journal of Theoretical Physics, 2019, 58, 1908-1926.	1.2	6
18	Finite-dimensional quantum states generated by conditional measurements on beam splitters. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1054.	2.1	6

#	Article	IF	Citations
19	FLUCTUATION OF MESOSCOPIC RLC CIRCUIT AT PHOTON-SUBTRACTED AND PHOTON-ADDED THERMO VACUUM STATES WITH FINITE TEMPERATURE. Modern Physics Letters B, 2011, 25, 31-39.	1.9	5
20	Entanglement properties of a tunable non-Gaussian quantum state by virtue of multi-photon conditional measurement. Laser Physics, 2019, 29, 115204.	1.2	5
21	Nonclassical properties of induced states from single-mode squeezed vacuum state related with Hermite excited elementary superposition operation. European Physical Journal Plus, 2019, 134, 1.	2.6	5
22	Changing Fock matrix elements of two-mode squeezed vacuum state by employing three conditional operations in one-sided lossy channel. Physica Scripta, 2020, 95, 045101.	2.5	5
23	Quantum phase estimation with local amplified 1001 state based on Wigner-function method. Quantum Information Processing, 2015, 14, 411-424.	2.2	4
24	Orthogonalization of coherent state and generation of continuous-variable qubit state via a coherent superposition of photon addition and subtraction. Modern Physics Letters A, 2018, 33, 1850172.	1.2	4
25	Nonclassical properties of coherent state orthogonalization via Hermite polynomial excited operation. Laser Physics Letters, 2019, 16, 055203.	1.4	4
26	SEARCHING FOR PSEUDO-INVARIANT EIGEN-OPERATOR OF THE $\wedge$§-TYPE THREE-LEVEL JAYNES–CUMMINGS MODEL. International Journal of Modern Physics B, 2010, 24, 6203-6210.	2.0	3
27	The Squeezing Effect of Three-Mode Operator as an Extension from Two-Mode Squeezing Operator. International Journal of Theoretical Physics, 2012, 51, 2056-2065.	1.2	3
28	Squeezed vacuum state in lossy channel as a squeezed thermal state. Modern Physics Letters B, 2015, 29, 1550219.	1.9	3
29	Some Evolution Formulas on the Optical Fields Propagation in Realistic Environments. International Journal of Theoretical Physics, 2017, 56, 791-801.	1.2	3
30	Quantum-Catalyzed Squeezed Vacuum State with Single-Photon Measurement and its Nonclassicality. International Journal of Theoretical Physics, 2018, 57, 2892-2903.	1.2	3
31	Generating two-variable Hermite polynomial excited squeezed vacuum states by conditional measurement on beam splitters. Optik, 2018, 172, 1034-1039.	2.9	3
32	Comparative analysis of properties for amplified coherent state and amplified squeezed vacuum. Modern Physics Letters B, 2020, 34, 2050377.	1.9	3
33	Conditional generation of multiphoton-subtracted squeezed vacuum states: loss consideration and operator description. Quantum Information Processing, 2020, 19, 1.	2.2	3
34	Quantum-enhanced SU(1,1) interferometry via a Fock state and an arbitrary state. Optics Communications, 2022, 505, 127592.	2.1	3
35	Time Evolution of Husimi Function for Photon-Added Squeezed Vacuum State in Dissipative Channel. International Journal of Theoretical Physics, 2010, 49, 2200-2209.	1.2	2
36	Application of Generalized EPR Entangled State in Quantum Teleportation. International Journal of Theoretical Physics, 2010, 49, 2486-2498.	1.2	2

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37	M Times Photon Subtraction-Addition Coherent Superposition Operated Odd-SchroÌ€dinger-cat State: Nonclassicality and Decoherence. International Journal of Theoretical Physics, 2015, 54, 2952-2968.	1.2	2
38	Dynamical evolution of photon-added thermal state in thermal reservoir*. Chinese Physics B, 2019, 28, 110301.	1.4	2
39	Orthogonal state of coherent state based on Hermite-excited superposition operator: Production and Wigner function. Modern Physics Letters B, 2019, 33, 1950320.	1.9	2
40	Photon-catalyzed optical coherent states generated via a non-degenerate parametric amplifier with quantum-optical catalysis. Canadian Journal of Physics, 2020, 98, 119-124.	1.1	2
41	Signal characters and non-classical properties of quadratically amplified squeezed vacuum. Modern Physics Letters B, 2021, 35, 2150028.	1.9	2
42	NONCLASSICALITY AND DECOHERENCE OF PHOTON-ADDED THERMAL STATE. International Journal of Quantum Information, 2010, 08, 1373-1387.	1.1	1
43	Generalized Hellmann-Feynman Theorem for Coupled Anisotropic Two-Mode Boson System. International Journal of Theoretical Physics, 2010, 49, 1200-1211.	1.2	1
44	Nonlocality of High-Order Superposition Photon Addition Two-Mode Thermal State. International Journal of Theoretical Physics, 2013, 52, 2784-2795.	1.2	1
45	Nonclassicality and Decoherence of Generalized Photon-Modulated Squeezed Thermal State. International Journal of Theoretical Physics, 2013, 52, 3543-3559.	1.2	1
46	Nonclassicality and Decoherence of the Variable Arcsine State in a Thermal Environment. International Journal of Theoretical Physics, 2014, 53, 3970-3980.	1.2	1
47	Can orthogonalization enhance the EPR correlation and the teleportation fidelity of a two-mode squeezed vacuum?. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 1497.	2.1	1
48	Amplified thermal state: Properties and decoherence. Modern Physics Letters B, 2021, 35, 2150448.	1.9	1
49	FRACTIONAL HADAMARD TRANSFORM WITH CONTINUOUS VARIABLES IN THE CONTEXT OF QUANTUM OPTICS. International Journal of Quantum Information, 2011, 09, 1147-1155.	1.1	0
50	Wigner Function, Husimi Function and Tomogram ofÂAtomicÂCoherent State as Energy Eigenstate ofÂTwoÂCoupledÂOscillators. International Journal of Theoretical Physics, 2011, 50, 1643-1655.	1.2	0
51	Single-mode squeezed vacuum state orthogonalization via photon-addition operation. Optik, 2019, 183, 1043-1047.	2.9	0
52	Multi-Headed Symmetrical Superpositions of Coherent States. International Journal of Theoretical Physics, 2022, 61, .	1.2	0