Alok Pan

List of Publications by Year
in descending order

58	554	623734	752698
papers	citations	14 h-index	20 g-index

60	60	60	264
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sharing nonlocality and nontrivial preparation contextuality using the same family of Bell expressions. Physical Review A, 2019, 100, .	2.5	35
2	Optimal quantum preparation contextuality in an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -bit parity-oblivious multiplexing task. Physical Review A, 2018, 98, .	2.5	33
3	Weak values in nonideal spin measurements: An exact treatment beyond the asymptotic regime. Physical Review A, 2012, 85, .	2.5	29
4	Which verification qubits perform best for secure communication in noisy channel?. Quantum Information Processing, 2016, 15, 1703-1718.	2.2	28
5	Probing various formulations of macrorealism for unsharp quantum measurements. Physical Review A, 2017, 96, .	2.5	27
6	Aspects of nonideal Sternâ€“Gerlach experiment and testable ramifications. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 13975-13988.	2.1	26
7	Swapping path-spin intraparticle entanglement onto spin-spin interparticle entanglement. Europhysics Letters, 2010, 89, 10005.	2.0	23
8	On the quantum analogue of Galileo's leaning tower experiment. Classical and Quantum Gravity, 2006, 23, 6493-6502.	4.0	21
9	Inequivalent Leggett-Garg inequalities. Europhysics Letters, 2017, 118, 50002.	2.0	21
10	Three-box paradox and â€˜Cheshire cat grinâ€™: the case of spin-1 atoms. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 315307.	2.1	20
11	Interference experiment, anomalous weak value, and Leggett-Garg test of macrorealism. Physical Review A, 2020, 102, .	2.5	20
12	Information transfer using a single particle path-spin hybrid entangled state. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 1121-1125.	2.1	19
13	Device-independent certification of the Hilbert-space dimension using a family of Bell expressions. Physical Review A, 2020, 102, .	2.5	18
14	Violation of the LÃ¼ders bound of macrorealist and noncontextual inequalities. Physical Review A, 2018, 98, .	2.5	16
15	Quantum violation of variants of Leggett-Garg inequalities up to the algebraic maximum for a qubit system. Physical Review A, 2018, 98, .	2.5	14
16	Generalized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -locality inequalities in a star-network configuration and their optimal quantum violations. Physical Review A, 2021, 104, .	2.5	13
17	Quantum teleportation using non-orthogonal entangled channels. Physica Scripta, 2012, 85, 045001.	2.5	12
18	Observability of the arrival time distribution using spin-rotator as a quantum clock. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 352, 296-303.	2.1	11

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19	A variant of Peres-Mermin proof for testing noncontextual realist models. Europhysics Letters, 2010, 90, 40002.	2.0	11
20	Revealing universal quantum contextuality through communication games. Scientific Reports, 2019, 9, 17631.	3.3	11
21	Oblivious communication game, self-testing of projective and nonprojective measurements, and certification of randomness. Physical Review A, 2021, 104, .	2.5	11
22	Semi-device-independent certification of multiple unsharpness parameters through sequential measurements. Physical Review A, 2021, 104, .	2.5	11
23	Contextuality within quantum mechanics manifested in subensemble mean values. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3430-3434.	2.1	10
24	Characterizing nonlocal correlations through various <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -locality inequalities in a quantum network. Physical Review A, 2022, 105, .	2.5	10
25	Probing inequivalent forms of Leggettâ€“Garg inequality in subatomic systems. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 095004.	3.6	8
26	Toward secure communication using intra-particle entanglement. Quantum Information Processing, 2015, 14, 1451-1468.	2.2	7
27	Quantitative probing of the quantumâ€“classical transition for the arrival time distribution. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 165302.	2.1	6
28	Sub-Planck structure in a mixed state. European Physical Journal D, 2015, 69, 1.	1.3	6
29	PT symmetric evolution, coherence and violation of Leggettâ€“Garg inequalities. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 275303.	2.1	6
30	Cat state, sub-Planck structure and weak measurement. European Physical Journal D, 2013, 67, 1.	1.3	5
31	Quantum violation of entropic noncontextual inequality in four dimensions. Physical Review A, 2013, 87, .	2.5	5
32	Comment on â€œWeak Measurements with Orbital-Angular-Momentum Pointer Statesâ€• Physical Review Letters, 2013, 111, 028901.	7.8	5
33	Joint weak value for all order coupling using continuous variable and qubit probe. European Physical Journal D, 2017, 71, 1.	1.3	5
34	Swapping intraphoton entanglement to interphoton entanglement using linear optical devices. Physical Review A, 2019, 99, .	2.5	5
35	Direct experimental test of commutation relation via imaginary weak value. Physical Review Research, 2021, 3, .	3.6	5
36	The Quantum-Classical Comparison of the Arrival-Time Distribution Through the Probability Current. Foundations of Physics Letters, 2006, 19, 723-734.	0.6	4

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37	Understanding the spreading of a Gaussian wave packet using the Bohmian machinery. Pramana - Journal of Physics, 2010, 74, 867-874.	1.8	4
38	Quantum violation of noncontextuality for separable states using fewer measurement settings. European Physical Journal D, 2012, 66, 1.	1.3	4
39	Quantum Contextuality for a Three-Level System Sans Realist Model. International Journal of Theoretical Physics, 2016, 55, 3472-3478.	1.2	4
40	Disembodiment of arbitrary number of properties in quantum Cheshire cat experiment. European Physical Journal D, 2020, 74, 1.	1.3	4
41	Quantum Mechanical Effect of Path-polarization Contextuality for a Single Photon. International Journal of Theoretical Physics, 2010, 49, 1920-1928.	1.2	3
42	CHSH inequalities with appropriate response function for POVM and their quantum violation. Quantum Information Processing, 2019, 18, 1.	2.2	3
43	Semi-device-independent randomness certification using Merminâ€™s proof of Kochenâ€“Specker contextuality. European Physical Journal D, 2021, 75, 1.	1.3	3
44	Using the no-signaling condition for constraining the nonidealness of a Sternâ€“Gerlach set-up. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 085301.	2.1	2
45	Weak measurements as an instance of non-ideal measurements. Laser Physics, 2012, 22, 1553-1564.	1.2	2
46	Reexamining Larmor precession in a spin-rotator: testable correction and its ramifications. European Physical Journal D, 2013, 67, 1.	1.3	2
47	Two definitions of maximally Ï^-epistemic ontological model and preparation non-contextuality. Europhysics Letters, 2021, 133, 50004.	2.0	2
48	Various formulations of inequivalent Leggettâ€“Garg inequalities. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 035301.	2.1	2
49	L$ddot {u}$der Rule, Von Neumann Rule and Cirelsonâ€™s Bound of Bell CHSH Inequality. International Journal of Theoretical Physics, 0, , 1.	1.2	1
50	LÃ¼ders Bounds of Leggettâ€“Garg Inequalities, PT$mathcal {PT}$â€•Symmetric Evolution and Arrowâ€•ofâ€•Time. Annalen Der Physik, 2022, 534, .	2.4	1
51	Reply to â€œComment on â€˜Contextuality within quantum mechanics manifested in subensemble mean valuesâ€™ [Phys. Lett. A 373 (2009) 3430]â€•[Phys. Lett. A 374 (2010) 1397]. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2195-2198.	2.1	0
52	Swapping path-spin intraparticle entanglement onto spin-spin mixed interparticle entanglement involving amplitude damping channel. , 2011, , .		0
53	Facets of contextual realism in quantum mechanics. , 2011, , .		0
54	AN INTERPLAY BETWEEN NONLOCALITY AND QUANTUM VIOLATION OF PATHâ€“SPIN NONCONTEXTUALITY. International Journal of Quantum Information, 2011, 09, 1279-1289.	1.1	0

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55	On Empirical Scrutiny of the Bohmian Model Using a Spin Rotator and the Arrival/Transit Time Distribution. International Journal of Theoretical Physics, 2012, 51, 374-389.	1.2	0
56	Reply to Comment on â€˜Quantitative probing of the quantumâ€“classical transition for the arrival time distributionâ€™. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 208002.	2.1	0
57	Faithful Pointer for Qubit Measurement. International Journal of Theoretical Physics, 2018, 57, 554-561.	1.2	0
58	Quantum violations of L uÂ¨ ders bound Leggettâ€“Garg inequalities for non-unitary quantum channel. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 135301.	2.1	0