

Arun Kumar Pati

List of Publications by Year in descending order

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38
papers

1,822
citations

331538

21
h-index

315616

38
g-index

38
all docs

38
docs citations

38
times ranked

863
citing authors

#	ARTICLE	IF	CITATIONS
1	Duality of quantum coherence and path distinguishability. Physical Review A, 2015, 92, .	1.0	206
2	Geometric aspects of noncyclic quantum evolutions. Physical Review A, 1995, 52, 2576-2584.	1.0	156
3	Maximum Relative Entropy of Coherence: An Operational Coherence Measure. Physical Review Letters, 2017, 119, 150405.	2.9	141
4	Quantum discord and classical correlation can tighten the uncertainty principle in the presence of quantum memory. Physical Review A, 2012, 86, .	1.0	131
5	Impossibility of deleting an unknown quantum state. Nature, 2000, 404, 164-165.	13.7	122
6	Maximally coherent mixed states: Complementarity between maximal coherence and mixedness. Physical Review A, 2015, 91, .	1.0	120
7	Impossibility of deleting an unknown quantum state. Nature, 2000, 404, 164-165.	13.7	108
8	Conditions for monogamy of quantum correlations: Greenberger-Horne-Zeilinger versus $\langle W \rangle$ states. Physical Review A, 2012, 85, .	1.0	96
9	Assisted cloning and orthogonal complementing of an unknown state. Physical Review A, 2000, 61, .	1.0	75
10	Relation between "phases" and "distance" in quantum evolution. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 159, 105-112.	0.9	68
11	Quantum Superposition of Multiple Clones and the Novel Cloning Machine. Physical Review Letters, 1999, 83, 2849-2852.	2.9	65
12	Quantum discord with weak measurements. Annals of Physics, 2014, 343, 141-152.	1.0	55
13	Quantum speed limit for mixed states using an experimentally realizable metric. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1395-1400.	0.9	53
14	Masking Quantum Information is Impossible. Physical Review Letters, 2018, 120, 230501.	2.9	52
15	Tighter uncertainty and reverse uncertainty relations. Physical Review A, 2017, 95, .	1.0	41
16	Uncertainty Relations for Quantum Coherence. Mathematics, 2016, 4, 47.	1.1	38
17	Uncertainty relations for general unitary operators. Physical Review A, 2016, 94, .	1.0	31
18	New derivation of the geometric phase. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 202, 40-45.	0.9	27

#	ARTICLE	IF	CITATIONS
19	Adiabatic Berry Phase and Hannay Angle for Open Paths. <i>Annals of Physics</i> , 1998, 270, 178-197.	1.0	27
20	Experimental test of uncertainty relations for general unitary operators. <i>Optics Express</i> , 2017, 25, 17904.	1.7	25
21	Limit on the frequency of measurements in the quantum Zeno effect. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 215, 7-13.	0.9	21
22	Interpretation of geometric phase via geometric distance and length during cyclic evolution. <i>Physical Review A</i> , 1993, 47, 98-104.	1.0	17
23	Uncertainty relation of Anandanâ€™Aharonov and intelligent states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 262, 296-301.	0.9	17
24	Quantum speed limit constraints on a nanoscale autonomous refrigerator. <i>Physical Review E</i> , 2018, 97, 062116.	0.8	17
25	Geometric phase with photon statistics and squeezed light for the dispersive fiber. <i>Physical Review A</i> , 1994, 49, 5131-5134.	1.0	16
26	Quantum cobwebs: Universal entangling of quantum states. <i>Pramana - Journal of Physics</i> , 2002, 59, 221-228.	0.9	13
27	Probabilistic exact cloning and probabilistic no-signalling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 270, 103-107.	0.9	12
28	Coherence makes quantum systems â€˜magicalâ€™. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 414006.	0.7	11
29	Quantum uncertainty relation based on the mean deviation. <i>Physical Review A</i> , 2018, 98, .	1.0	10
30	Trade-off relation for coherence and disturbance. <i>Physical Review A</i> , 2018, 97, .	1.0	9
31	On phases and length of curves in a cyclic quantum evolution. <i>Pramana - Journal of Physics</i> , 1994, 42, 455-465.	0.9	7
32	Fluctuations, time-correlation functions, and geometric phase. <i>Physical Review A</i> , 1999, 60, 121-125.	1.0	7
33	Interference visibility, entanglement, and quantum correlation. <i>Physical Review A</i> , 2015, 92, .	1.0	7
34	Testing Bellâ€™s inequality using the Aharonov-Casher effect. <i>Physical Review A</i> , 1998, 58, R1-R3.	1.0	6
35	Impossibility of cloning of quantum coherence. <i>Physical Review A</i> , 2021, 103, .	1.0	5
36	Entangled brachistochrone: minimum time to reach the target entangled state. <i>Quantum Information Processing</i> , 2012, 11, 841-851.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Direct experimental test of forward and reverse uncertainty relations. Physical Review Research, 2020, 2, .	1.3	4
38	Geometric phase for a finite-dimensional Hilbert-space harmonic oscillator. Physical Review A, 1995, 51, 5012-5015.	1.0	2