

List of Publications by Year in descending order

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209
papers

16,122
citations

41323

49
h-index

16164

124
g-index

214
all docs

214
docs citations

214
times ranked

6803
citing authors

#	ARTICLE	IF	CITATIONS
1	Transforming pure and mixed states using an NMR quantum homogenizer. <i>Physical Review A</i> , 2021, 103, .	1.0	4
2	Mitigating Realistic Noise in Practical Noisy Intermediate-Scale Quantum Devices. <i>Physical Review Applied</i> , 2021, 15, .	1.5	53
3	Decoherence effects in non-classicality tests of gravity. <i>New Journal of Physics</i> , 2021, 23, 043040.	1.2	31
4	Sagnac interferometer and the quantum nature of gravity. <i>Journal of Physics Communications</i> , 2021, 5, 051001.	0.5	8
5	A measurable physical theory of hyper-correlations beyond quantum mechanics. <i>Physica Scripta</i> , 2021, 96, 015006.	1.2	0
6	Aharonov-Bohm Phase is Locally Generated Like All Other Quantum Phases. <i>Physical Review Letters</i> , 2020, 125, 040401.	2.9	30
7	Quantum Refrigeration with Indefinite Causal Order. <i>Physical Review Letters</i> , 2020, 125, 070603.	2.9	52
8	Witnessing nonclassicality beyond quantum theory. <i>Physical Review D</i> , 2020, 102, .	1.6	28
9	Reaching out. <i>Nature Reviews Physics</i> , 2020, 2, 282-284.	11.9	6
10	On the Testability of the Equivalence Principle as a Gauge Principle Detecting the Gravitational t3 Phase. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	12
11	Information fluctuation theorem for an open quantum bipartite system. <i>Physical Review E</i> , 2020, 101, 052128.	0.8	9
12	Non-Monogamy of Spatio-Temporal Correlations and the Black Hole Information Loss Paradox. <i>Entropy</i> , 2020, 22, 228.	1.1	4
13	Quantum synchronization in nanoscale heat engines. <i>Physical Review E</i> , 2020, 101, 020201.	0.8	33
14	Different instances of time as different quantum modes: quantum states across space-time for continuous variables. <i>New Journal of Physics</i> , 2020, 22, 023029.	1.2	5
15	Experimental Self-Characterization of Quantum Measurements. <i>Physical Review Letters</i> , 2020, 124, 040402.	2.9	15
16	Emergence of correlated proton tunnelling in water ice. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20180867.	1.0	2
17	Modular quantum computation in a trapped ion system. <i>Nature Communications</i> , 2019, 10, 4692.	5.8	8
18	Causal Limit on Quantum Communication. <i>Physical Review Letters</i> , 2019, 123, 150502.	2.9	13

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19	Theoretical description and experimental simulation of quantum entanglement near open time-like curves via pseudo-density operators. <i>Nature Communications</i> , 2019, 10, 182.	5.8	9
20	Engineering statistical transmutation of identical quantum particles. <i>Physical Review B</i> , 2019, 99, .	1.1	6
21	Uncertainty equality with quantum memory and its experimental verification. <i>Npj Quantum Information</i> , 2019, 5, .	2.8	21
22	Operational advantage of basis-independent quantum coherence. <i>Europhysics Letters</i> , 2019, 125, 50005.	0.7	24
23	Is the fermionic exchange phase also acquired locally?. <i>Journal of Physics Communications</i> , 2019, 3, 111001.	0.5	1
24	Quantum Physics and Time from Inconsistent Marginals. <i>The Frontiers Collection</i> , 2018, , 273-280.	0.1	0
25	Squeezing Enhances Quantum Synchronization. <i>Physical Review Letters</i> , 2018, 120, 163601.	2.9	76
26	Quantum plug nâ€™™ play: modular computation in the quantum regime. <i>New Journal of Physics</i> , 2018, 20, 013004.	1.2	19
27	Geometry of quantum correlations in space-time. <i>Physical Review A</i> , 2018, 98, .	1.0	16
28	Experimental test of the relation between coherence and path information. <i>Communications Physics</i> , 2018, 1, .	2.0	9
29	Measuring quantumness: from theory to observability in interferometric setups. <i>European Physical Journal D</i> , 2018, 72, 1.	0.6	7
30	Probing quantum features of photosynthetic organisms. <i>Npj Quantum Information</i> , 2018, 4, .	2.8	25
31	Proton tunnelling in hydrogen bonds and its implications in an induced-fit model of enzyme catalysis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20180037.	1.0	19
32	Maximum one-shot dissipated work from Rényi divergences. <i>Physical Review E</i> , 2018, 97, 052135.	0.8	7
33	When can gravity path-entangle two spatially superposed masses?. <i>Physical Review D</i> , 2018, 98, .	1.6	29
34	Causal Asymmetry in a Quantum World. <i>Physical Review X</i> , 2018, 8, .	2.8	26
35	Operational effects of the UNOT gate on classical and quantum correlations. <i>Science Bulletin</i> , 2018, 63, 765-770.	4.3	4
36	Decoding Reality. , 2018, , .		5

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37	Influence of the fermionic exchange symmetry beyond Pauli's exclusion principle. Physical Review A, 2017, 95, .	1.0	20
38	Universal upper bounds on the Bose-Einstein condensate and the Hubbard star. Physical Review B, 2017, 96, .	1.1	11
39	Detecting metrologically useful asymmetry and entanglement by a few local measurements. Physical Review A, 2017, 96, .	1.0	37
40	Operational one-to-one mapping between coherence and entanglement measures. Physical Review A, 2017, 96, .	1.0	101
41	Using quantum theory to simplify input-output processes. Npj Quantum Information, 2017, 3, .	2.8	29
42	A Nanophotonic Structure Containing Living Photosynthetic Bacteria. Small, 2017, 13, 1701777.	5.2	46
43	Entropic equality for worst-case work at any protocol speed. New Journal of Physics, 2017, 19, 043013.	1.2	12
44	Thermodynamics of complexity and pattern manipulation. Physical Review E, 2017, 95, 042140.	0.8	20
45	No-Hypersignaling Principle. Physical Review Letters, 2017, 119, 020401.	2.9	22
46	Device-Independent Tests of Quantum Measurements. Physical Review Letters, 2017, 118, 250501.	2.9	19
47	Local reversibility and entanglement structure of many-body ground states. Quantum Science and Technology, 2017, 2, 015005.	2.6	14
48	Provably unbounded memory advantage in stochastic simulation using quantum mechanics. New Journal of Physics, 2017, 19, 103009.	1.2	22
49	Witness gravity's quantum side in the lab. Nature, 2017, 547, 156-158.	13.7	24
50	Macroscopic Quantum Resonators (MAQRO): 2015 update. EPJ Quantum Technology, 2016, 3, .	2.9	77
51	Pinning of fermionic occupation numbers: Higher spatial dimensions and spin. Physical Review A, 2016, 94, .	1.0	17
52	Quantum correlations which imply causation. Scientific Reports, 2016, 5, 18281.	1.6	69
53	General framework for quantum macroscopicity in terms of coherence. Physical Review A, 2016, 93, .	1.0	95
54	Entanglement Rényi entropy. Physical Review A, 2016, 93, .	1.0	28

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55	Power of one qumode for quantum computation. <i>Physical Review A</i> , 2016, 93, .	1.0	26
56	Converting Coherence to Quantum Correlations. <i>Physical Review Letters</i> , 2016, 116, 160407.	2.9	335
57	Pinning of fermionic occupation numbers: General concepts and one spatial dimension. <i>Physical Review A</i> , 2016, 93, .	1.0	21
58	Quantum Processes Which Do Not Use Coherence. <i>Physical Review X</i> , 2016, 6, .	2.8	115
59	Verifying Heisenberg's error-disturbance relation using a single trapped ion. <i>Science Advances</i> , 2016, 2, e1600578.	4.7	29
60	How discord underlies the noise resilience of quantum illumination. <i>New Journal of Physics</i> , 2016, 18, 043027.	1.2	65
61	Quantum thermodynamics for a model of an expanding Universe. <i>Classical and Quantum Gravity</i> , 2016, 33, 035003.	1.5	6
62	Photonic Maxwell's Demon. <i>Physical Review Letters</i> , 2016, 116, 050401.	2.9	137
63	Quantum macroscopicity versus distillation of macroscopic superpositions. <i>Physical Review A</i> , 2015, 92, .	1.0	14
64	Replicating the benefits of Deutschian closed timelike curves without breaking causality. <i>Npj Quantum Information</i> , 2015, 1, .	2.8	13
65	Introducing one-shot work into fluctuation relations. <i>New Journal of Physics</i> , 2015, 17, 095003.	1.2	48
66	Scale-estimation of quantum coherent energy transport in multiple-minima systems. <i>Scientific Reports</i> , 2015, 4, 5520.	1.6	6
67	Majorana transport in superconducting nanowire with Rashba and Dresselhaus spin-orbit couplings. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 225302.	0.7	3
68	Quantum optics, molecular spectroscopy and low-temperature spectroscopy: general discussion. <i>Faraday Discussions</i> , 2015, 184, 275-303.	1.6	13
69	Classification of macroscopic quantum effects. <i>Optics Communications</i> , 2015, 337, 22-26.	1.0	17
70	Discord as a quantum resource for bi-partite communication. , 2014, , .		0
71	Experimental verification of quantum discord in continuous-variable states and operational significance of discord consumption. , 2014, , .		1
72	Local Convertibility and the Quantum Simulation of Edge States in Many-Body Systems. <i>Physical Review X</i> , 2014, 4, .	2.8	16

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73	Publisher's Note: Guaranteed Energy-Efficient Bit Reset in Finite Time [Phys. Rev. Lett.113, 100603 (2014)]. Physical Review Letters, 2014, 113, .	2.9	1
74	The uncertainty principle enables non-classical dynamics in an interferometer. Nature Communications, 2014, 5, 4592.	5.8	14
75	Quantum entanglement. Nature Physics, 2014, 10, 256-258.	6.5	94
76	Zen and the art of quantum complexity. New Scientist, 2014, 224, 28-29.	0.0	0
77	Guaranteed Energy-Efficient Bit Reset in Finite Time. Physical Review Letters, 2014, 113, 100603.	2.9	29
78	Towards quantifying complexity with quantum mechanics. European Physical Journal Plus, 2014, 129, 1.	1.2	12
79	Topological quantum phase transitions in the spin-singlet superconductor with Rashba and Dresselhaus (110) spin-orbit couplings. Annals of Physics, 2014, 349, 189-200.	1.0	4
80	Maxwell's Daemon: Information versus Particle Statistics. Scientific Reports, 2014, 4, 6995.	1.6	14
81	CORRELATIONS IN QUANTUM PHYSICS. International Journal of Modern Physics B, 2013, 27, 1345017.	1.0	6
82	Requirement of Dissonance in Assisted Optimal State Discrimination. Scientific Reports, 2013, 3, 2134.	1.6	25
83	Local characterization of one-dimensional topologically ordered states. Physical Review B, 2013, 88, .	1.1	25
84	Wigner rotations and an apparent paradox in relativistic quantum information. Physical Review A, 2013, 87, .	1.0	13
85	A framework for phase and interference in generalized probabilistic theories. New Journal of Physics, 2013, 15, 093044.	1.2	19
86	Witnessing the quantumness of a single system: From anticommutators to interference and discord. Physical Review A, 2013, 87, .	1.0	6
87	Majorana fermions in s -wave noncentrosymmetric superconductor with Dresselhaus (110) spin-orbit coupling. Physical Review B, 2013, 87, .	1.1	24
88	Comment on "Quantum Szilard Engine". Physical Review Letters, 2013, 111, 188901.	2.9	13
89	Topological features of good resources for measurement-based quantum computation. Mathematical Structures in Computer Science, 2013, 23, 441-453.	0.5	2
90	The curious state of quantum physics. Physics World, 2013, 26, 30-32.	0.0	2

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91	Quantumness and entanglement witnesses. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 105302.	0.7	11
92	Information-theoretic lower bound on energy cost of stochastic computation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 4058-4066.	1.0	15
93	Classical to quantum in large-number limit. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 4810-4820.	1.6	7
94	The classical-quantum boundary for correlations: Discord and related measures. <i>Reviews of Modern Physics</i> , 2012, 84, 1655-1707.	16.4	1,273
95	Effects of quantum coherence in metalloprotein electron transfer. <i>Physical Review E</i> , 2012, 86, 031922.	0.8	11
96	The surprise theory of everything. <i>New Scientist</i> , 2012, 216, 32-37.	0.0	1
97	Towards quantum simulations of biological information flow. <i>Interface Focus</i> , 2012, 2, 522-528.	1.5	15
98	An information-theoretic equality implying the Jarzynski relation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 272001.	0.7	34
99	Quantum phases with differing computational power. <i>Nature Communications</i> , 2012, 3, 812.	5.8	62
100	Unifying Typical Entanglement and Coin Tossing: on Randomization in Probabilistic Theories. <i>Communications in Mathematical Physics</i> , 2012, 316, 441-487.	1.0	24
101	Physical interpretation of the Wigner rotations and its implications for relativistic quantum information. <i>New Journal of Physics</i> , 2012, 14, 023041.	1.2	40
102	Observing the operational significance of discord consumption. <i>Nature Physics</i> , 2012, 8, 671-675.	6.5	201
103	Quantum mechanics can reduce the complexity of classical models. <i>Nature Communications</i> , 2012, 3, 762.	5.8	79
104	Quantum discord as resource for remote state preparation. <i>Nature Physics</i> , 2012, 8, 666-670.	6.5	397
105	Information and Physics. <i>Information (Switzerland)</i> , 2012, 3, 219-223.	1.7	14
106	Moving Beyond Trust in Quantum Computing. <i>Science</i> , 2012, 335, 294-295.	6.0	5
107	Spin quantum correlations of relativistic particles. <i>Physical Review A</i> , 2012, 85, .	1.0	28
108	Sustained Quantum Coherence and Entanglement in the Avian Compass. <i>Physical Review Letters</i> , 2011, 106, 040503.	2.9	255

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109	Behavior of entanglement and Cooper pairs under relativistic boosts. <i>Physical Review A</i> , 2011, 84, .	1.0	20
110	Global asymmetry of many-qubit correlations: A lattice-gauge-theory approach. <i>Physical Review A</i> , 2011, 84, .	1.0	4
111	Living in a Quantum World. <i>Scientific American</i> , 2011, 304, 38-43.	1.0	59
112	The thermodynamic meaning of negative entropy. <i>Nature</i> , 2011, 474, 61-63.	13.7	287
113	Quantum Correlations in Biomolecules. <i>Procedia Chemistry</i> , 2011, 3, 172-175.	0.7	4
114	Generating topological order from a two-dimensional cluster state using a duality mapping. <i>New Journal of Physics</i> , 2011, 13, 065010.	1.2	15
115	Extreme nonlocality with one photon. <i>New Journal of Physics</i> , 2011, 13, 053054.	1.2	76
116	Natural mode entanglement as a resource for quantum communication. , 2011, , .		0
117	Quantum Correlations in Mixed-State Metrology. <i>Physical Review X</i> , 2011, 1, .	2.8	78
118	Statistical mechanics of the cluster Ising model. <i>Physical Review A</i> , 2011, 84, .	1.0	84
119	Geometric local invariants and pure three-qubit states. <i>Physical Review A</i> , 2011, 83, .	1.0	15
120	Physically realizable entanglement by local continuous measurements. <i>Physical Review A</i> , 2011, 83, .	1.0	17
121	Entanglement spectrum: Identification of the transition from vortex-liquid to vortex-lattice state in a weakly interacting rotating Bose-Einstein condensate. <i>Physical Review A</i> , 2011, 83, .	1.0	13
122	Inadequacy of von Neumann entropy for characterizing extractable work. <i>New Journal of Physics</i> , 2011, 13, 053015.	1.2	115
123	Unification of quantum and classical correlations and quantumness measures. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	14
124	Unified View of Quantum and Classical Correlations. <i>Physical Review Letters</i> , 2010, 104, 080501.	2.9	689
125	Necessary and Sufficient Condition for Nonzero Quantum Discord. <i>Physical Review Letters</i> , 2010, 105, 190502.	2.9	1,026
126	Detecting entanglement with Jarzynski's equality. <i>Physical Review A</i> , 2010, 81, .	1.0	6

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127	The Elusive Source of Quantum Speedup. <i>Foundations of Physics</i> , 2010, 40, 1141-1154.	0.6	43
128	Entanglement in disordered and non-equilibrium systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 359-362.	1.3	7
129	Hot entanglement. <i>Nature</i> , 2010, 468, 769-770.	13.7	22
130	Entanglement in pure and thermal cluster states. <i>New Journal of Physics</i> , 2010, 12, 053015.	1.2	10
131	Kaszlikowski <i>et al.</i> Reply. <i>Physical Review Letters</i> , 2010, 104, .	2.9	3
132	Entanglement at the quantum phase transition in a harmonic lattice. <i>New Journal of Physics</i> , 2010, 12, 025017.	1.2	10
133	Positive Phase Space Transformation Incompatible with Classical Physics. <i>Physical Review Letters</i> , 2009, 102, 110404.	2.9	5
134	Natural Mode Entanglement as a Resource for Quantum Communication. <i>Physical Review Letters</i> , 2009, 103, 200502.	2.9	29
135	Enhancing the Detection of Natural Thermal Entanglement with Disorder. <i>Physical Review Letters</i> , 2009, 102, 100503.	2.9	17
136	Entanglement production in non-equilibrium thermodynamics. <i>Journal of Physics: Conference Series</i> , 2009, 143, 012010.	0.3	11
137	Quantum Criticality of Ground and Thermal States in XX Model. <i>Open Systems and Information Dynamics</i> , 2009, 16, 281-286.	0.5	2
138	Effect of Entanglement on Geometric Phase for Multi-Qubit States. <i>Open Systems and Information Dynamics</i> , 2009, 16, 305-323.	0.5	3
139	A Simple Thermodynamical Witness Showing Universality of Macroscopic Entanglement. <i>Open Systems and Information Dynamics</i> , 2009, 16, 287-291.	0.5	2
140	<i>Colloquium</i> : The physics of Maxwell's demon and information. <i>Reviews of Modern Physics</i> , 2009, 81, 1-23.	16.4	469
141	Entanglement and nonlocality of a single relativistic particle. <i>Physical Review A</i> , 2009, 80, .	1.0	38
142	Quantum physics meets biology. <i>HFSP Journal</i> , 2009, 3, 386-400.	2.5	149
143	How Much of One-Way Computation Is Just Thermodynamics?. <i>Foundations of Physics</i> , 2008, 38, 506-522.	0.6	9
144	Schrödinger's Cat Meets Einstein's Twins: A Superposition of Different Clock Times. <i>International Journal of Theoretical Physics</i> , 2008, 47, 2126-2129.	0.5	3

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145	Entanglement in many-body systems. <i>Reviews of Modern Physics</i> , 2008, 80, 517-576.	16.4	2,781
146	Quantum Correlation without Classical Correlations. <i>Physical Review Letters</i> , 2008, 101, 070502.	2.9	84
147	Quantifying entanglement in macroscopic systems. <i>Nature</i> , 2008, 453, 1004-1007.	13.7	136
148	Heat capacity as an indicator of entanglement. <i>Physical Review B</i> , 2008, 78, .	1.1	48
149	THE SECOND QUANTIZED QUANTUM TURING MACHINE AND KOLMOGOROV COMPLEXITY. <i>Modern Physics Letters B</i> , 2008, 22, 1203-1210.	1.0	4
150	Optomechanical to mechanical entanglement transformation. <i>New Journal of Physics</i> , 2008, 10, 095014.	1.2	33
151	SECOND QUANTIZED KOLMOGOROV COMPLEXITY. <i>International Journal of Quantum Information</i> , 2008, 06, 907-928.	0.6	9
152	Kaszlikowski et al. Reply. <i>Physical Review Letters</i> , 2008, 101, .	2.9	2
153	Entanglement in doped resonating valence bond states. <i>Physical Review B</i> , 2008, 78, .	1.1	5
154	CAN ENTANGLEMENT BE EXTRACTED FROM MANY BODY SYSTEMS?. <i>International Journal of Quantum Information</i> , 2007, 05, 125-130.	0.6	0
155	Witnessing macroscopic entanglement in a staggered magnetic field. <i>Physical Review A</i> , 2007, 76, .	1.0	14
156	Quantumness without quantumness: entanglement as classical correlations in higher dimensions. <i>Journal of Modern Optics</i> , 2007, 54, 2185-2192.	0.6	2
157	Dimensionality-induced entanglement in macroscopic dimer systems. <i>Physical Review A</i> , 2007, 76, .	1.0	5
158	Regional Versus Global Entanglement in Resonating-Valence-Bond States. <i>Physical Review Letters</i> , 2007, 99, 170502.	2.9	36
159	Spatial entanglement from off-diagonal long-range order in a Bose-Einstein condensate. <i>Physical Review A</i> , 2007, 76, .	1.0	25
160	Nonlocality of a Single Particle. <i>Physical Review Letters</i> , 2007, 99, 180404.	2.9	71
161	Entanglement in single-particle systems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007, 463, 2277-2286.	1.0	49
162	Macroscopic Entanglement and Phase Transitions. <i>Open Systems and Information Dynamics</i> , 2007, 14, 1-16.	0.5	21

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163	Crucial role of quantum entanglement in bulk properties of solids. <i>Physical Review A</i> , 2006, 73, .	1.0	115
164	Geometric Phase Induced by a Cyclically Evolving Squeezed Vacuum Reservoir. <i>Physical Review Letters</i> , 2006, 96, 150403.	2.9	43
165	A better than perfect match. <i>Nature</i> , 2006, 439, 397-397.	13.7	3
166	Detecting entanglement with a thermometer. <i>New Journal of Physics</i> , 2006, 8, 140-140.	1.2	33
167	ENTANGLEMENT-ASSISTED ORIENTATION IN SPACE. <i>International Journal of Quantum Information</i> , 2006, 04, 365-370.	0.6	11
168	Macroscopic Thermal Entanglement Due to Radiation Pressure. <i>Physical Review Letters</i> , 2006, 96, 060407.	2.9	70
169	Entanglement between collective operators in a linear harmonic chain. <i>Physical Review A</i> , 2006, 73, .	1.0	20
170	Coherent Quantum Evolution via Reservoir Driven Holonomies. <i>Physical Review Letters</i> , 2006, 96, 020403.	2.9	33
171	Work extraction from tripartite entanglement. <i>New Journal of Physics</i> , 2005, 7, 195-195.	1.2	10
172	Magnetic susceptibility as a macroscopic entanglement witness. <i>New Journal of Physics</i> , 2005, 7, 258-258.	1.2	156
173	Thermodynamical cost of accessing quantum information. <i>Journal of Physics A</i> , 2005, 38, 7175-7181.	1.6	14
174	Equation of state for entanglement in a Fermi gas. <i>Physical Review A</i> , 2005, 71, .	1.0	15
175	Thermodynamical detection of entanglement by Maxwell's demons. <i>Physical Review A</i> , 2005, 71, .	1.0	26
176	Natural Multiparticle Entanglement in a Fermi Gas. <i>Physical Review Letters</i> , 2005, 95, 030503.	2.9	38
177	Anyons and transmutation of statistics via a vacuum-induced Berry phase. <i>Physical Review A</i> , 2004, 70, .	1.0	10
178	Entropy as a function of geometric phase. <i>Journal of Physics A</i> , 2004, 37, 11259-11274.	1.6	4
179	High-temperature macroscopic entanglement. <i>New Journal of Physics</i> , 2004, 6, 102-102.	1.2	118
180	Entanglement in Time and Temporal Communication Complexity. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	6

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181	Accessibility of physical states and non-uniqueness of entanglement measure. Journal of Physics A, 2004, 37, 5887-5893.	1.6	3
182	Mean-field approximations and multipartite thermal correlations. New Journal of Physics, 2004, 6, 22-22.	1.2	28
183	Entanglement in the second quantization formalism. Open Physics, 2003, 1, .	0.8	70
184	Entanglement hits the big time. Nature, 2003, 425, 28-29.	13.7	91
185	GEOMETRIC PHASES AND TOPOLOGICAL QUANTUM COMPUTATION. International Journal of Quantum Information, 2003, 01, 1-23.	0.6	42
186	Energy requirements for quantum data compression and 1-1 coding. Physical Review A, 2003, 68, .	1.0	2
187	Topological quantum gates with quantum dots. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S643-S646.	1.4	3
188	Vacuum induced Berry phase: theory and experimental proposal. Journal of Modern Optics, 2003, 50, 1175-1181.	0.6	2
189	Anandan et al.Reply:. Physical Review Letters, 2002, 89, .	2.9	28
190	Uniqueness of the Entanglement Measure for Bipartite Pure States and Thermodynamics. Physical Review Letters, 2002, 89, 037903.	2.9	31
191	Comparison of quantum oracles. Physical Review A, 2002, 65, .	1.0	33
192	Geometric quantum computation with Josephson qubits. Physica C: Superconductivity and Its Applications, 2001, 352, 110-112.	0.6	2
193	Remote Information Concentration Using a Bound Entangled State. Physical Review Letters, 2001, 86, 352-355.	2.9	90
194	Security of EPR-based quantum cryptography against incoherent symmetric attacks. Journal of Physics A, 2001, 34, 6913-6918.	1.6	41
195	Geometric quantum computation using nuclear magnetic resonance. Nature, 2000, 403, 869-871.	13.7	672
196	Detection of geometric phases in superconducting nanocircuits. Nature, 2000, 407, 355-358.	13.7	359
197	Geometric quantum computation. Journal of Modern Optics, 2000, 47, 2501-2513.	0.6	206
198	Quantum-information distribution via entanglement. Physical Review A, 2000, 61, .	1.0	83

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199	Geometric Phases for Mixed States in Interferometry. Physical Review Letters, 2000, 85, 2845-2849.	2.9	489
200	Local Distinguishability of Multipartite Orthogonal Quantum States. Physical Review Letters, 2000, 85, 4972-4975.	2.9	372
201	Landauer's erasure, error correction and entanglement. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 969-984.	1.0	37
202	On bound entanglement assisted distillation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 262, 121-124.	0.9	14
203	Basics of quantum computation. Progress in Quantum Electronics, 1998, 22, 1-39.	3.5	98
204	Distributions and channel capacities in generalized statistical mechanics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 247, 211-217.	0.9	171
205	Teleportation, entanglement and thermodynamics in the quantum world. Contemporary Physics, 1998, 39, 431-446.	0.8	266
206	Quantum networks for elementary arithmetic operations. Physical Review A, 1996, 54, 147-153.	1.0	528
207	The classical-quantum divergence of complexity in modelling spin chains. Quantum - the Open Journal for Quantum Science, 0, 1, 25.	0.0	17
208	Phase diffusion and the small-noise approximation in linear amplifiers: Limitations and beyond. Quantum - the Open Journal for Quantum Science, 0, 3, 200.	0.0	5
209	Measurement Based Quantum Computation on Fractal Lattices. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 26, 109-115.	0.8	3