## Vlatko Vedral

List of Publications by Year in descending order

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<u> Μίλτκο Μερρλι</u>

#	Article	lF	CITATIONS
1	Signatures of causality and determinism in a quantum theory of events. Physical Review A, 2022, 105, .	1.0	0
2	The quantum totalitarian property and exact symmetries. AVS Quantum Science, 2022, 4, .	1.8	5
3	Quantum signatures of gravity from superpositions of primordial massive particles. Physical Review D, 2022, 105, .	1.6	1
4	Surveying Structural Complexity in Quantum Many-Body Systems. Journal of Statistical Physics, 2022, 187, 1.	0.5	2
5	Emergence of Constructor-Based Irreversibility in Quantum Systems: Theory and Experiment. Physical Review Letters, 2022, 128, 080401.	2.9	4
6	Non-Gaussianity as a Signature of a Quantum Theory of Gravity. PRX Quantum, 2021, 2, .	3.5	59
7	Decoherence effects in non-classicality tests of gravity. New Journal of Physics, 2021, 23, 043040.	1.2	31
8	Interference in the Heisenberg picture of quantum field theory, local elements of reality, and fermions. Physical Review D, 2021, 104, .	1.6	4
9	Temporal teleportation with pseudo-density operators: How dynamics emerges from temporal entanglement. Science Advances, 2021, 7, eabe4742.	4.7	5
10	Aharonov-Bohm Phase is Locally Generated Like All Other Quantum Phases. Physical Review Letters, 2020, 125, 040401.	2.9	30
11	Quantum Refrigeration with Indefinite Causal Order. Physical Review Letters, 2020, 125, 070603.	2.9	52
12	Witnessing nonclassicality beyond quantum theory. Physical Review D, 2020, 102, .	1.6	28
13	Reaching out. Nature Reviews Physics, 2020, 2, 282-284.	11.9	6
14	Information fluctuation theorem for an open quantum bipartite system. Physical Review E, 2020, 101, 052128.	0.8	9
15	Non-Monogamy of Spatio-Temporal Correlations and the Black Hole Information Loss Paradox. Entropy, 2020, 22, 228.	1.1	4
16	Quantum synchronization in nanoscale heat engines. Physical Review E, 2020, 101, 020201.	0.8	33
17	Different instances of time as different quantum modes: quantum states across space-time for continuous variables. New Journal of Physics, 2020, 22, 023029.	1.2	5
18	Experimental Self-Characterization of Quantum Measurements. Physical Review Letters, 2020, 124, 040402.	2.9	15

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19	Emergence of correlated proton tunnelling in water ice. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180867.	1.0	2
20	Modular quantum computation in a trapped ion system. Nature Communications, 2019, 10, 4692.	5.8	8
21	Causal Limit on Quantum Communication. Physical Review Letters, 2019, 123, 150502.	2.9	13
22	Out of equilibrium thermodynamics of quantum harmonic chains. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 104014.	0.9	3
23	Theoretical description and experimental simulation of quantum entanglement near open time-like curves via pseudo-density operators. Nature Communications, 2019, 10, 182.	5.8	9
24	Engineering statistical transmutation of identical quantum particles. Physical Review B, 2019, 99, .	1.1	6
25	Uncertainty equality with quantum memory and its experimental verification. Npj Quantum Information, 2019, 5, .	2.8	21
26	Operational advantage of basis-independent quantum coherence. Europhysics Letters, 2019, 125, 50005.	0.7	24
27	Is the fermionic exchange phase also acquired locally?. Journal of Physics Communications, 2019, 3, 111001.	0.5	1
28	Quantum Physics and Time from Inconsistent Marginals. The Frontiers Collection, 2018, , 273-280.	0.1	0
29	Squeezing Enhances Quantum Synchronization. Physical Review Letters, 2018, 120, 163601.	2.9	76
30	Quantum plug n' play: modular computation in the quantum regime. New Journal of Physics, 2018, 20, 013004.	1.2	19
31	Geometry of quantum correlations in space-time. Physical Review A, 2018, 98, .	1.0	16
32	Experimental test of the relation between coherence and path information. Communications Physics, 2018, 1, .	2.0	9
33	Measuring quantumness: from theory to observability in interferometric setups. European Physical Journal D, 2018, 72, 1.	0.6	7
34	Probing quantum features of photosynthetic organisms. Npj Quantum Information, 2018, 4, .	2.8	25
35	Proton tunnelling in hydrogen bonds and its implications in an induced-fit model of enzyme catalysis. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180037.	1.0	19
36	Maximum one-shot dissipated work from Rényi divergences. Physical Review E, 2018, 97, 052135.	0.8	7

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37	Law and Disorder. New Scientist, 2018, 237, 32-35.	0.0	2
38	When can gravity path-entangle two spatially superposed masses?. Physical Review D, 2018, 98, .	1.6	29
39	Causal Asymmetry in a Quantum World. Physical Review X, 2018, 8, .	2.8	26
40	Operational effects of the UNOT gate on classical and quantum correlations. Science Bulletin, 2018, 63, 765-770.	4.3	4
41	Can we hear the sounds of quantum superpositions?. Musicology, 2018, , 15-19.	0.1	2
42	Introductory Quantum Physics and Relativity. , 2018, , .		0
43	Influence of the fermionic exchange symmetry beyond Pauli's exclusion principle. Physical Review A, 2017, 95, .	1.0	20
44	Universal upper bounds on the Bose-Einstein condensate and the Hubbard star. Physical Review B, 2017, 96, .	1.1	11
45	Detecting metrologically useful asymmetry and entanglement by a few local measurements. Physical Review A, 2017, 96, .	1.0	37
46	Operational one-to-one mapping between coherence and entanglement measures. Physical Review A, 2017, 96, .	1.0	101
47	Quantum effects in the gravitational field. Nature, 2017, 549, 31-31.	13.7	2
48	Using quantum theory to simplify inputâ $\in$ "output processes. Npj Quantum Information, 2017, 3, .	2.8	29
49	A Nanophotonic Structure Containing Living Photosynthetic Bacteria. Small, 2017, 13, 1701777.	5.2	46
50	Gravitationally Induced Entanglement between Two Massive Particles is Sufficient Evidence of Quantum Effects in Gravity. Physical Review Letters, 2017, 119, 240402.	2.9	358
51	Entropic equality for worst-case work at any protocol speed. New Journal of Physics, 2017, 19, 043013.	1.2	12
52	Thermodynamics of complexity and pattern manipulation. Physical Review E, 2017, 95, 042140.	0.8	20
53	No-Hypersignaling Principle. Physical Review Letters, 2017, 119, 020401.	2.9	22
54	Device-Independent Tests of Quantum Measurements. Physical Review Letters, 2017, 118, 250501.	2.9	19

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55	Local reversibility and entanglement structure of many-body ground states. Quantum Science and Technology, 2017, 2, 015005.	2.6	14
56	Provably unbounded memory advantage in stochastic simulation using quantum mechanics. New Journal of Physics, 2017, 19, 103009.	1.2	22
57	Witness gravity's quantum side in the lab. Nature, 2017, 547, 156-158.	13.7	24
58	Time, (Inverse) Temperature and Cosmological Inflation as Entanglement. Tutorials, Schools, and Workshops in the Mathematical Sciences, 2017, , 27-42.	0.3	1
59	Macroscopic Quantum Resonators (MAQRO): 2015 update. EPJ Quantum Technology, 2016, 3, .	2.9	77
60	Pinning of fermionic occupation numbers: Higher spatial dimensions and spin. Physical Review A, 2016, 94, .	1.0	17
61	Quantum correlations which imply causation. Scientific Reports, 2016, 5, 18281.	1.6	69
62	General framework for quantum macroscopicity in terms of coherence. Physical Review A, 2016, 93, .	1.0	95
63	Entanglement Rényi <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mi>α</mml:mi>entropy. Physical Review A, 2016, 93, .</mml:math 	1.0	28
64	Power of one qumode for quantum computation. Physical Review A, 2016, 93, .	1.0	26
65	Converting Coherence to Quantum Correlations. Physical Review Letters, 2016, 116, 160407.	2.9	335
66	Pinning of fermionic occupation numbers: General concepts and one spatial dimension. Physical Review A, 2016, 93, .	1.0	21
67	Quantum Processes Which Do Not Use Coherence. Physical Review X, 2016, 6, .	2.8	115
68	Verifying Heisenberg's error-disturbance relation using a single trapped ion. Science Advances, 2016, 2, e1600578.	4.7	29
69	How discord underlies the noise resilience of quantum illumination. New Journal of Physics, 2016, 18, 043027.	1.2	65
70	Quantum thermodynamics for a model of an expanding Universe. Classical and Quantum Gravity, 2016, 33, 035003.	1.5	6
71	Photonic Maxwell's Demon. Physical Review Letters, 2016, 116, 050401.	2.9	137
72	Quantum macroscopicity versus distillation of macroscopic superpositions. Physical Review A, 2015, 92, .	1.0	14

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73	Replicating the benefits of Deutschian closed timelike curves without breaking causality. Npj Quantum Information, 2015, 1, .	2.8	13
74	Introducing one-shot work into fluctuation relations. New Journal of Physics, 2015, 17, 095003.	1.2	48
75	Scale-estimation of quantum coherent energy transport in multiple-minima systems. Scientific Reports, 2015, 4, 5520.	1.6	6
76	Majorana transport in superconducting nanowire with Rashba and Dresselhaus spin–orbit couplings. Journal of Physics Condensed Matter, 2015, 27, 225302.	0.7	3
77	Quantum optics, molecular spectroscopy and low-temperature spectroscopy: general discussion. Faraday Discussions, 2015, 184, 275-303.	1.6	13
78	Towards witnessing quantum effects in complex molecules. Faraday Discussions, 2015, 184, 183-191.	1.6	2
79	Classification of macroscopic quantum effects. Optics Communications, 2015, 337, 22-26.	1.0	17
80	Universal optimal quantum correlator. International Journal of Quantum Information, 2014, 12, 1560002.	0.6	8
81	Discord as a quantum resource for bi-partite communication. , 2014, , .		0
82	Experimental verification of quantum discord in continuous-variable states and operational significance of discord consumption. , 2014, , .		1
83	Local Convertibility and the Quantum Simulation of Edge States in Many-Body Systems. Physical Review X, 2014, 4, .	2.8	16
84	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
85	The uncertainty principle enables non-classical dynamics in an interferometer. Nature Communications, 2014, 5, 4592.	5.8	14
86	Quantum entanglement. Nature Physics, 2014, 10, 256-258.	6.5	94
87	Guaranteed Energy-Efficient Bit Reset in Finite Time. Physical Review Letters, 2014, 113, 100603.	2.9	29
88	Towards quantifying complexity with quantum mechanics. European Physical Journal Plus, 2014, 129, 1.	1.2	12
89	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
90	Maxwell's Daemon: Information versus Particle Statistics. Scientific Reports, 2014, 4, 6995.	1.6	14

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91	CORRELATIONS IN QUANTUM PHYSICS. International Journal of Modern Physics B, 2013, 27, 1345017.	1.0	6
92	Quantum information: Are we nearly there yet?. New Scientist, 2013, 219, viii.	0.0	0
93	Requirement of Dissonance in Assisted Optimal State Discrimination. Scientific Reports, 2013, 3, 2134.	1.6	25
94	Local characterization of one-dimensional topologically ordered states. Physical Review B, 2013, 88, .	1.1	25
95	Experimental Generation of Quantum Discord via Noisy Processes. Physical Review Letters, 2013, 111, 100504.	2.9	50
96	Wigner rotations and an apparent paradox in relativistic quantum information. Physical Review A, 2013, 87, .	1.0	13
97	Extracting Quantum Work Statistics and Fluctuation Theorems by Single-Qubit Interferometry. Physical Review Letters, 2013, 110, 230601.	2.9	247
98	A framework for phase and interference in generalized probabilistic theories. New Journal of Physics, 2013, 15, 093044.	1.2	19
99	Witnessing the quantumness of a single system: From anticommutators to interference and discord. Physical Review A, 2013, 87, .	1.0	6
100	Majorana fermions in <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mi>s</mml:mi></mml:math> -wave noncentrosymmetric superconductor with Dresselhaus (110) spin-orbit coupling. Physical Review B, 2013, 87, .	1.1	24
101	Comment on "Quantum Szilard Engine― Physical Review Letters, 2013, 111, 188901.	2.9	13
102	Topological features of good resources for measurement-based quantum computation. Mathematical Structures in Computer Science, 2013, 23, 441-453.	0.5	2
103	The curious state of quantum physics. Physics World, 2013, 26, 30-32.	0.0	2
104	Extracting quantum work statistics by single qubit interferometry. , 2013, , .		0
105	Extracting quantum work statistics by single qubit interferometry. , 2013, , .		0
106	Quantumness and entanglement witnesses. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 105302.	0.7	11
107	Information-theoretic lower bound on energy cost of stochastic computation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 4058-4066.	1.0	15
108	Quantum nonlocality test by spectral joint measurements of qubits in driven cavity. Europhysics Letters, 2012, 100, 10007.	0.7	4

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109	Classical to quantum in large-number limit. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 4810-4820.	1.6	7
110	The classical-quantum boundary for correlations: Discord and related measures. Reviews of Modern Physics, 2012, 84, 1655-1707.	16.4	1,273
111	Effects of quantum coherence in metalloprotein electron transfer. Physical Review E, 2012, 86, 031922.	0.8	11
112	The surprise theory of everything. New Scientist, 2012, 216, 32-37.	0.0	1
113	Towards quantum simulations of biological information flow. Interface Focus, 2012, 2, 522-528.	1.5	15
114	An information–theoretic equality implying the Jarzynski relation. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 272001.	0.7	34
115	Quantum phases with differing computational power. Nature Communications, 2012, 3, 812.	5.8	62
116	Unifying Typical Entanglement and Coin Tossing: on Randomization in Probabilistic Theories. Communications in Mathematical Physics, 2012, 316, 441-487.	1.0	24
117	Topological order in 1D Cluster state protected by symmetry. Quantum Information Processing, 2012, 11, 1961-1968.	1.0	42
118	Physical interpretation of the Wigner rotations and its implications for relativistic quantum information. New Journal of Physics, 2012, 14, 023041.	1.2	40
119	Observing the operational significance of discordÂconsumption. Nature Physics, 2012, 8, 671-675.	6.5	201
120	Quantum mechanics can reduce the complexity of classical models. Nature Communications, 2012, 3, 762.	5.8	79
121	Quantum discord as resource for remote stateÂpreparation. Nature Physics, 2012, 8, 666-670.	6.5	397
122	Emergent Thermodynamics in a Quenched Quantum Many-Body System. Physical Review Letters, 2012, 109, 160601.	2.9	119
123	Information and Physics. Information (Switzerland), 2012, 3, 219-223.	1.7	14
124	Moving Beyond Trust in Quantum Computing. Science, 2012, 335, 294-295.	6.0	5
125	Spin quantum correlations of relativistic particles. Physical Review A, 2012, 85, .	1.0	28
126	Quantum phase transition between cluster and antiferromagnetic states. Europhysics Letters, 2011, 95, 50001.	0.7	74

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127	Sustained Quantum Coherence and Entanglement in the Avian Compass. Physical Review Letters, 2011, 106, 040503.	2.9	255
128	Behavior of entanglement and Cooper pairs under relativistic boosts. Physical Review A, 2011, 84, .	1.0	20
129	Global asymmetry of many-qubit correlations: A lattice-gauge-theory approach. Physical Review A, 2011, 84, .	1.0	4
130	Living in a Quantum World. Scientific American, 2011, 304, 38-43.	1.0	59
131	The thermodynamic meaning of negative entropy. Nature, 2011, 474, 61-63.	13.7	287
132	Quantum Correlations in Biomolecules. Procedia Chemistry, 2011, 3, 172-175.	0.7	4
133	Experimental demonstration of a unified framework for mixed-state geometric phases. Europhysics Letters, 2011, 94, 20007.	0.7	17
134	Generating topological order from a two-dimensional cluster state using a duality mapping. New Journal of Physics, 2011, 13, 065010.	1.2	15
135	Extreme nonlocality with one photon. New Journal of Physics, 2011, 13, 053054.	1.2	76
136	Natural mode entanglement as a resource for quantum communication. , 2011, , .		0
137	Quantum Correlations in Mixed-State Metrology. Physical Review X, 2011, 1, .	2.8	78
138	Statistical mechanics of the cluster Ising model. Physical Review A, 2011, 84, .	1.0	84
139	Geometric local invariants and pure three-qubit states. Physical Review A, 2011, 83, .	1.0	15
140	Physically realizable entanglement by local continuous measurements. Physical Review A, 2011, 83, .	1.0	17
141	Entanglement spectrum: Identification of the transition from vortex-liquid to vortex-lattice state in a weakly interacting rotating Bose-Einstein condensate. Physical Review A, 2011, 83, .	1.0	13
142	A functional interpretation of continuous variable quantum discord. , 2011, , .		0
143	Inadequacy of von Neumann entropy for characterizing extractable work. New Journal of Physics, 2011, 13, 053015.	1.2	115
144	Unification of quantum and classical correlations and quantumness measures. AIP Conference Proceedings, 2011, , .	0.3	14

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145	Unified View of Quantum and Classical Correlations. Physical Review Letters, 2010, 104, 080501.	2.9	689
146	Necessary and Sufficient Condition for Nonzero Quantum Discord. Physical Review Letters, 2010, 105, 190502.	2.9	1,026
147	Detecting entanglement with Jarzynskiâ $\in$ ${}^{ extsf{ms}}$ s equality. Physical Review A, 2010, 81, .	1.0	6
148	The Elusive Source of Quantum Speedup. Foundations of Physics, 2010, 40, 1141-1154.	0.6	43
149	Entanglement in disordered and non-equilibrium systems. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 359-362.	1.3	7
150	Hot entanglement. Nature, 2010, 468, 769-770.	13.7	22
151	Entanglement in pure and thermal cluster states. New Journal of Physics, 2010, 12, 053015.	1.2	10
152	Kaszlikowski <i>etÂal.</i> Reply:. Physical Review Letters, 2010, 104, .	2.9	3
153	Entanglement at the quantum phase transition in a harmonic lattice. New Journal of Physics, 2010, 12, 025017.	1.2	10
154	Introductory Quantum Physics and Relativity. , 2010, , .		1
155	Positive Phase Space Transformation Incompatible with Classical Physics. Physical Review Letters, 2009, 102, 110404.	2.9	5
156	Natural Mode Entanglement as a Resource for Quantum Communication. Physical Review Letters, 2009, 103, 200502.	2.9	29
157	Enhancing the Detection of Natural Thermal Entanglement with Disorder. Physical Review Letters, 2009, 102, 100503.	2.9	17
158	Entanglement production in non-equilibrium thermodynamics. Journal of Physics: Conference Series, 2009, 143, 012010.	0.3	11
159	Quantum Criticality of Ground and Thermal States in XX Model. Open Systems and Information Dynamics, 2009, 16, 281-286.	0.5	2
160	Effect of Entanglement on Geometric Phase for Multi-Qubit States. Open Systems and Information Dynamics, 2009, 16, 305-323.	0.5	3
161	A Simple Thermodynamical Witness Showing Universality of Macroscopic Entanglement. Open Systems and Information Dynamics, 2009, 16, 287-291.	0.5	2
162	<i>Colloquium</i> : The physics of Maxwell's demon and information. Reviews of Modern Physics, 2009, 81, 1-23.	16.4	469

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163	Entanglement and nonlocality of a single relativistic particle. Physical Review A, 2009, 80, .	1.0	38
164	Quantum physics meets biology. HFSP Journal, 2009, 3, 386-400.	2.5	149
165	How Much of One-Way Computation Is Just Thermodynamics?. Foundations of Physics, 2008, 38, 506-522.	0.6	9
166	Schrödinger's Cat Meets Einstein's Twins: AÂSuperposition of Different Clock Times. International Journal of Theoretical Physics, 2008, 47, 2126-2129.	0.5	3
167	Geometric phase induced by quantum nonlocality. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 775-778.	0.9	27
168	Entanglement in many-body systems. Reviews of Modern Physics, 2008, 80, 517-576.	16.4	2,781
169	Quantum Correlation without Classical Correlations. Physical Review Letters, 2008, 101, 070502.	2.9	84
170	Quantifying entanglement in macroscopic systems. Nature, 2008, 453, 1004-1007.	13.7	136
171	Heat capacity as an indicator of entanglement. Physical Review B, 2008, 78, .	1.1	48
172	THE SECOND QUANTIZED QUANTUM TURING MACHINE AND KOLMOGOROV COMPLEXITY. Modern Physics Letters B, 2008, 22, 1203-1210.	1.0	4
173	Optomechanical to mechanical entanglement transformation. New Journal of Physics, 2008, 10, 095014.	1.2	33
174	SECOND QUANTIZED KOLMOGOROV COMPLEXITY. International Journal of Quantum Information, 2008, 06, 907-928.	0.6	9
175	Survival of entanglement in thermal states. Europhysics Letters, 2008, 81, 40006.	0.7	26
176	KaszlikowskietÂal.Reply:. Physical Review Letters, 2008, 101, .	2.9	2
177	Entanglement in doped resonating valence bond states. Physical Review B, 2008, 78, .	1.1	5
178	CAN ENTANGLEMENT BE EXTRACTED FROM MANY BODY SYSTEMS?. International Journal of Quantum Information, 2007, 05, 125-130.	0.6	0
179	Witnessing macroscopic entanglement in a staggered magnetic field. Physical Review A, 2007, 76, .	1.0	14
180	Quantumness without quantumness: entanglement as classical correlations in higher dimensions. Journal of Modern Optics, 2007, 54, 2185-2192.	0.6	2

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181	Dimensionality-induced entanglement in macroscopic dimer systems. Physical Review A, 2007, 76, .	1.0	5
182	Regional Versus Global Entanglement in Resonating-Valence-Bond States. Physical Review Letters, 2007, 99, 170502.	2.9	36
183	Spatial entanglement from off-diagonal long-range order in a Bose-Einstein condensate. Physical Review A, 2007, 76, .	1.0	25
184	Nonlocality of a Single Particle. Physical Review Letters, 2007, 99, 180404.	2.9	71
185	Entanglement in single-particle systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 2277-2286.	1.0	49
186	Macroscopic Entanglement and Phase Transitions. Open Systems and Information Dynamics, 2007, 14, 1-16.	0.5	21
187	Crucial role of quantum entanglement in bulk properties of solids. Physical Review A, 2006, 73, .	1.0	115
188	How to Extract Entanglement from a Piece of Solid or a Bunch of Neutrons. Acta Physica Hungarica A Heavy Ion Physics, 2006, 26, 261-268.	0.4	1
189	A better than perfect match. Nature, 2006, 439, 397-397.	13.7	3
190	Detecting entanglement with a thermometer. New Journal of Physics, 2006, 8, 140-140.	1.2	33
191	Macroscopic Thermal Entanglement Due to Radiation Pressure. Physical Review Letters, 2006, 96, 060407.	2.9	70
192	Entanglement between collective operators in a linear harmonic chain. Physical Review A, 2006, 73, .	1.0	20
193	Magnetic susceptibility as a macroscopic entanglement witness. New Journal of Physics, 2005, 7, 258-258.	1.2	156
194	Thermodynamical cost of accessing quantum information. Journal of Physics A, 2005, 38, 7175-7181.	1.6	14
195	Thermodynamical detection of entanglement by Maxwell's demons. Physical Review A, 2005, 71, .	1.0	26
196	Natural Multiparticle Entanglement in a Fermi Gas. Physical Review Letters, 2005, 95, 030503.	2.9	38
197	Anyons and transmutation of statistics via a vacuum-induced Berry phase. Physical Review A, 2004, 70, .	1.0	10
198	High-temperature macroscopic entanglement. New Journal of Physics, 2004, 6, 102-102.	1.2	118

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199	Entanglement in Time and Temporal Communication Complexity. AIP Conference Proceedings, 2004, , .	0.3	6
200	Entanglement in the second quantization formalism. Open Physics, 2003, 1, .	0.8	70
201	Entanglement hits the big time. Nature, 2003, 425, 28-29.	13.7	91
202	GEOMETRIC PHASES AND TOPOLOGICAL QUANTUM COMPUTATION. International Journal of Quantum Information, 2003, 01, 1-23.	0.6	42
203	Energy requirements for quantum data compression and 1-1 coding. Physical Review A, 2003, 68, .	1.0	2
204	Uniqueness of the Entanglement Measure for Bipartite Pure States and Thermodynamics. Physical Review Letters, 2002, 89, 037903.	2.9	31
205	Comparison of quantum oracles. Physical Review A, 2002, 65, .	1.0	33
206	Geometric quantum computation using nuclear magnetic resonance. Nature, 2000, 403, 869-871.	13.7	672
207	Geometric Phases for Mixed States in Interferometry. Physical Review Letters, 2000, 85, 2845-2849.	2.9	489
208	Local Distinguishability of Multipartite Orthogonal Quantum States. Physical Review Letters, 2000, 85, 4972-4975.	2.9	372
209	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
210	Teleportation, entanglement and thermodynamics in the quantum world. Contemporary Physics, 1998, 39, 431-446.	0.8	266
211	Quantum networks for elementary arithmetic operations. Physical Review A, 1996, 54, 147-153.	1.0	528
212	The classical-quantum divergence of complexity in modelling spin chains. Quantum - the Open Journal for Quantum Science, 0, 1, 25.	0.0	17
213	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
214	Measurement Based Quantum Computation on Fractal Lattices. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 26, 109-115.	0.8	3