

Martin B Plenio

List of Publications by Year in descending order

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444
papers

41,276
citations

2963

93
h-index

2812

191
g-index

450
all docs

450
docs citations

450
times ranked

13533
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Colloquium</i>: Area laws for the entanglement entropy. Reviews of Modern Physics, 2010, 82, 277-306.	16.4	1,945
2	Quantifying Coherence. Physical Review Letters, 2014, 113, 140401.	2.9	1,865
3	Quantifying Entanglement. Physical Review Letters, 1997, 78, 2275-2279.	2.9	1,584
4	The quantum-jump approach to dissipative dynamics in quantum optics. Reviews of Modern Physics, 1998, 70, 101-144.	16.4	1,174
5	Entanglement measures and purification procedures. Physical Review A, 1998, 57, 1619-1633.	1.0	1,119
6	<i>Colloquium</i>: Quantum coherence as a resource. Reviews of Modern Physics, 2017, 89, .	16.4	1,108
7	Logarithmic Negativity: A Full Entanglement Monotone That is not Convex. Physical Review Letters, 2005, 95, 090503.	2.9	913
8	Strongly interacting polaritons in coupled arrays of cavities. Nature Physics, 2006, 2, 849-855.	6.5	830
9	Improvement of Frequency Standards with Quantum Entanglement. Physical Review Letters, 1997, 79, 3865-3868.	2.9	782
10	Entanglement and Non-Markovianity of Quantum Evolutions. Physical Review Letters, 2010, 105, 050403.	2.9	765
11	Dephasing-assisted transport: quantum networks and biomolecules. New Journal of Physics, 2008, 10, 113019.	1.2	762
12	Quantum non-Markovianity: characterization, quantification and detection. Reports on Progress in Physics, 2014, 77, 094001.	8.1	702
13	Highly efficient energy excitation transfer in light-harvesting complexes: The fundamental role of noise-assisted transport. Journal of Chemical Physics, 2009, 131, .	1.2	527
14	Quantum telecloning and multiparticle entanglement. Physical Review A, 1999, 59, 156-161.	1.0	509
15	Distilling Gaussian States with Gaussian Operations is Impossible. Physical Review Letters, 2002, 89, 137903.	2.9	490
16	The role of non-equilibrium vibrational structures in electronic coherence and recoherence in pigmentâ€“protein complexes. Nature Physics, 2013, 9, 113-118.	6.5	481
17	Quantum Metrology in Non-Markovian Environments. Physical Review Letters, 2012, 109, 233601.	2.9	477
18	Cavity-loss-induced generation of entangled atoms. Physical Review A, 1999, 59, 2468-2475.	1.0	468

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19	Proposal for Teleportation of an Atomic State via Cavity Decay. <i>Physical Review Letters</i> , 1999, 83, 5158-5161.	2.9	428
20	Vibrations, quanta and biology. <i>Contemporary Physics</i> , 2013, 54, 181-207.	0.8	426
21	Quantum many-body phenomena in coupled cavity arrays. <i>Laser and Photonics Reviews</i> , 2008, 2, 527-556.	4.4	399
22	Efficient quantum state tomography. <i>Nature Communications</i> , 2010, 1, 149.	5.8	394
23	Quantum Speed Limits in Open System Dynamics. <i>Physical Review Letters</i> , 2013, 110, 050403.	2.9	356
24	Efficient Simulation of Strong System-Environment Interactions. <i>Physical Review Letters</i> , 2010, 105, 050404.	2.9	348
25	Entanglement properties of the harmonic chain. <i>Physical Review A</i> , 2002, 66, .	1.0	318
26	Entropy, Entanglement, and Area: Analytical Results for Harmonic Lattice Systems. <i>Physical Review Letters</i> , 2005, 94, 060503.	2.9	303
27	INTRODUCTION TO THE BASICS OF ENTANGLEMENT THEORY IN CONTINUOUS-VARIABLE SYSTEMS. <i>International Journal of Quantum Information</i> , 2003, 01, 479-506.	0.6	283
28	Entangled Light from White Noise. <i>Physical Review Letters</i> , 2002, 88, 197901.	2.9	280
29	Quantum Phase Transition and Universal Dynamics in the Rabi Model. <i>Physical Review Letters</i> , 2015, 115, 180404.	2.9	279
30	Optimal local implementation of nonlocal quantum gates. <i>Physical Review A</i> , 2000, 62, .	1.0	273
31	Quantum information processing and communication. <i>European Physical Journal D</i> , 2005, 36, 203-228.	0.6	272
32	Tomography of quantum detectors. <i>Nature Physics</i> , 2009, 5, 27-30.	6.5	267
33	Teleportation, entanglement and thermodynamics in the quantum world. <i>Contemporary Physics</i> , 1998, 39, 431-446.	0.8	266
34	Noise-assisted energy transfer in quantum networks and light-harvesting complexes. <i>New Journal of Physics</i> , 2010, 12, 065002.	1.2	262
35	Steady State Entanglement in the Mechanical Vibrations of Two Dielectric Membranes. <i>Physical Review Letters</i> , 2008, 101, 200503.	2.9	261
36	Entanglement-Assisted Local Manipulation of Pure Quantum States. <i>Physical Review Letters</i> , 1999, 83, 3566-3569.	2.9	256

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37	A comparison of entanglement measures. <i>Journal of Modern Optics</i> , 1999, 46, 145-154.	0.6	246
38	Dynamics and manipulation of entanglement in coupled harmonic systems with many degrees of freedom. <i>New Journal of Physics</i> , 2004, 6, 36-36.	1.2	235
39	Submillihertz magnetic spectroscopy performed with a nanoscale quantum sensor. <i>Science</i> , 2017, 356, 832-837.	6.0	231
40	Observation of the Kibbleâ€Zurek scaling law for defect formation in ion crystals. <i>Nature Communications</i> , 2013, 4, 2290.	5.8	221
41	Topological defect formation and spontaneous symmetry breaking in ion Coulomb crystals. <i>Nature Communications</i> , 2013, 4, 2291.	5.8	220
42	Exact mapping between system-reservoir quantum models and semi-infinite discrete chains using orthogonal polynomials. <i>Journal of Mathematical Physics</i> , 2010, 51, .	0.5	214
43	Nuclear magnetic resonance spectroscopy with single spin sensitivity. <i>Nature Communications</i> , 2014, 5, 4703.	5.8	211
44	Robust Creation of Entanglement between Ions in Spatially Separate Cavities. <i>Physical Review Letters</i> , 2003, 91, 067901.	2.9	209
45	A large-scale quantum simulator on a diamond surface at room temperature. <i>Nature Physics</i> , 2013, 9, 168-173.	6.5	208
46	Quantum remote control: Teleportation of unitary operations. <i>Physical Review A</i> , 2001, 63, .	1.0	207
47	Multiparticle entanglement purification protocols. <i>Physical Review A</i> , 1998, 57, R4075-R4078.	1.0	205
48	Quantum gates and memory using microwave-dressed states. <i>Nature</i> , 2011, 476, 185-188.	13.7	202
49	Diamond Quantum Devices in Biology. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6586-6598.	7.2	202
50	The physics of forgetting: Landauer's erasure principle and information theory. <i>Contemporary Physics</i> , 2001, 42, 25-60.	0.8	199
51	Entanglement Cost under Positive-Partial-Transpose-Preserving Operations. <i>Physical Review Letters</i> , 2003, 90, 027901.	2.9	199
52	Three-Spin Interactions in Optical Lattices and Criticality in Cluster Hamiltonians. <i>Physical Review Letters</i> , 2004, 93, 056402.	2.9	190
53	Detection of a Few Metallo-Protein Molecules Using Color Centers in Nanodiamonds. <i>Nano Letters</i> , 2013, 13, 3305-3309.	4.5	184
54	Observation of Entangled States of a Fully Controlled 20-Qubit System. <i>Physical Review X</i> , 2018, 8, .	2.8	183

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55	Entanglement and entangling power of the dynamics in light-harvesting complexes. <i>Physical Review A</i> , 2010, 81, .	1.0	181
56	Statistical inference, distinguishability of quantum states, and quantum entanglement. <i>Physical Review A</i> , 1997, 56, 4452-4455.	1.0	174
57	Towards Quantum Entanglement in Nanoelectromechanical Devices. <i>Physical Review Letters</i> , 2004, 93, 190402.	2.9	174
58	Entanglement-area law for general bosonic harmonic lattice systems. <i>Physical Review A</i> , 2006, 73, .	1.0	173
59	Markovian master equations: a critical study. <i>New Journal of Physics</i> , 2010, 12, 113032.	1.2	171
60	Detecting and Polarizing Nuclear Spins with Double Resonance on a Single Electron Spin. <i>Physical Review Letters</i> , 2013, 111, 067601.	2.9	170
61	Entanglement quantification and purification in continuous-variable systems. <i>Physical Review A</i> , 2000, 61, .	1.0	165
62	Driving non-Gaussian to Gaussian states with linear optics. <i>Physical Review A</i> , 2003, 67, .	1.0	165
63	Non-Markovianity-Assisted Steady State Entanglement. <i>Physical Review Letters</i> , 2012, 108, 160402.	2.9	161
64	Effective Spin Systems in Coupled Microcavities. <i>Physical Review Letters</i> , 2007, 99, 160501.	2.9	158
65	Color Centers in Hexagonal Boron Nitride Monolayers: A Group Theory and Ab Initio Analysis. <i>ACS Photonics</i> , 2018, 5, 1967-1976.	3.2	157
66	Efficient tomography of a quantum many-body system. <i>Nature Physics</i> , 2017, 13, 1158-1162.	6.5	153
67	Tracking the coherent generation of polaron pairs in conjugated polymers. <i>Nature Communications</i> , 2016, 7, 13742.	5.8	149
68	Optimal local discrimination of two multipartite pure states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 288, 62-68.	0.9	145
69	Robust dynamical decoupling with concatenated continuous driving. <i>New Journal of Physics</i> , 2012, 14, 113023.	1.2	145
70	Converting Nonclassicality into Entanglement. <i>Physical Review Letters</i> , 2016, 116, 080402.	2.9	145
71	Minimal Conditions for Local Pure-State Entanglement Manipulation. <i>Physical Review Letters</i> , 1999, 83, 1455-1458.	2.9	144
72	Entanglement theory and the second law of thermodynamics. <i>Nature Physics</i> , 2008, 4, 873-877.	6.5	141

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73	Remote control of restricted sets of operations: Teleportation of angles. <i>Physical Review A</i> , 2002, 65, .	1.0	140
74	Fast quantum gates for cold trapped ions. <i>Physical Review A</i> , 2000, 62, .	1.0	132
75	Quantum memory for entangled continuous-variable states. <i>Nature Physics</i> , 2011, 7, 13-16.	6.5	130
76	Vibronic origin of long-lived coherence in an artificial molecular light harvester. <i>Nature Communications</i> , 2015, 6, 7755.	5.8	129
77	Quantum Metrology Enhanced by Repetitive Quantum Error Correction. <i>Physical Review Letters</i> , 2016, 116, 230502.	2.9	125
78	High efficiency transfer of quantum information and multiparticle entanglement generation in translation-invariant quantum chains. <i>New Journal of Physics</i> , 2005, 7, 73-73.	1.2	124
79	Extracting Entanglement from Identical Particles. <i>Physical Review Letters</i> , 2014, 112, 150501.	2.9	124
80	Entangling Power of Passive Optical Elements. <i>Physical Review Letters</i> , 2003, 90, 047904.	2.9	120
81	Structural Defects in Ion Chains by Quenching the External Potential: The Inhomogeneous Kibble-Zurek Mechanism. <i>Physical Review Letters</i> , 2010, 105, 075701.	2.9	120
82	Origin of long-lived oscillations in 2D-spectra of a quantum vibronic model: Electronic versus vibrational coherence. <i>Journal of Chemical Physics</i> , 2013, 139, 235102.	1.2	119
83	Coherence and decoherence in biological systems: principles of noise-assisted transport and the origin of long-lived coherences. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 3638-3657.	1.6	103
84	Realistic lower bounds for the factorization time of large numbers on a quantum computer. <i>Physical Review A</i> , 1996, 53, 2986-2990.	1.0	102
85	On the quantification of entanglement in infinite-dimensional quantum systems. <i>Journal of Physics A</i> , 2002, 35, 3911-3923.	1.6	101
86	Nonperturbative Treatment of non-Markovian Dynamics of Open Quantum Systems. <i>Physical Review Letters</i> , 2018, 120, 030402.	2.9	101
87	Mixed state dense coding and its relation to entanglement measures. <i>Journal of Modern Optics</i> , 2000, 47, 291-310.	0.6	99
88	Strong Photon Nonlinearities and Photonic Mott Insulators. <i>Physical Review Letters</i> , 2007, 99, 103601.	2.9	99
89	Resource Theory of Superposition. <i>Physical Review Letters</i> , 2017, 119, 230401.	2.9	99
90	Basics of quantum computation. <i>Progress in Quantum Electronics</i> , 1998, 22, 1-39.	3.5	98

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91	When are correlations quantum?â€”verification and quantification of entanglement by simple measurements. <i>New Journal of Physics</i> , 2006, 8, 266-266.	1.2	97
92	Generic Entanglement Can Be Generated Efficiently. <i>Physical Review Letters</i> , 2007, 98, 130502.	2.9	95
93	Generalized Polaron Ansatz for the Ground State of the Sub-Ohmic Spin-Boson Model: An Analytic Theory of the Localization Transition. <i>Physical Review Letters</i> , 2011, 107, 160601.	2.9	95
94	Pulsed Laser Cooling for Cavity Optomechanical Resonators. <i>Physical Review Letters</i> , 2012, 108, 153601.	2.9	94
95	Coherent control of quantum systems as a resource theory. <i>Quantum Science and Technology</i> , 2016, 1, 01LT01.	2.6	94
96	Distillation of continuous-variable entanglement with optical means. <i>Annals of Physics</i> , 2004, 311, 431-458.	1.0	92
97	Electron-Mediated Nuclear-Spin Interactions between Distant Nitrogen-Vacancy Centers. <i>Physical Review Letters</i> , 2011, 107, 150503.	2.9	92
98	Controlling and Measuring Quantum Transport of Heat in Trapped-Ion Crystals. <i>Physical Review Letters</i> , 2013, 111, 040601.	2.9	90
99	Critical and noncritical long-range entanglement in Klein-Gordon fields. <i>Physical Review A</i> , 2009, 80, .	1.0	89
100	Mappings of open quantum systems onto chain representations and Markovian embeddings. <i>Journal of Mathematical Physics</i> , 2014, 55, .	0.5	89
101	Quantifying Operations with an Application to Coherence. <i>Physical Review Letters</i> , 2019, 122, 190405.	2.9	89
102	Decoherence limits to quantum computation using trapped ions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1997, 453, 2017-2041.	1.0	87
103	Exploiting Structured Environments for Efficient Energy Transfer: The Phonon Antenna Mechanism. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 903-907.	2.1	86
104	Quantum Phase Transition in the Finite Jaynes-Cummings Lattice Systems. <i>Physical Review Letters</i> , 2016, 117, 123602.	2.9	86
105	Efficient Factorization with a Single Pure Qubit and $\log N$ Mixed Qubits. <i>Physical Review Letters</i> , 2000, 85, 3049-3052.	2.9	85
106	Robust optical polarization of nuclear spin baths using Hamiltonian engineering of nitrogen-vacancy center quantum dynamics. <i>Science Advances</i> , 2018, 4, eaat8978.	4.7	84
107	Quantum-information distribution via entanglement. <i>Physical Review A</i> , 2000, 61, .	1.0	83
108	Double Well Potentials and Quantum Phase Transitions in Ion Traps. <i>Physical Review Letters</i> , 2008, 101, 260504.	2.9	83

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109	Non-additive dissipation in open quantum networks out of equilibrium. <i>New Journal of Physics</i> , 2018, 20, 033005.	1.2	83
110	Efficient Simulation of Finite-Temperature Open Quantum Systems. <i>Physical Review Letters</i> , 2019, 123, 090402.	2.9	83
111	Broadcasting of entanglement via local copying. <i>Physical Review A</i> , 1997, 55, 3327-3332.	1.0	81
112	Entangling atoms and ions in dissipative environments. <i>Journal of Modern Optics</i> , 2000, 47, 2583-2598.	0.6	81
113	Scalable quantum computation via local control of only two qubits. <i>Physical Review A</i> , 2010, 81, .	1.0	80
114	Robust trapped-ion quantum logic gates by continuous dynamical decoupling. <i>Physical Review A</i> , 2012, 85, .	1.0	80
115	Macroscopic dark periods without a metastable state. <i>Physical Review A</i> , 1992, 46, 373-379.	1.0	79
116	Ordering states with entanglement measures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 268, 31-34.	0.9	79
117	A Generalization of Quantum Steinâ€™s Lemma. <i>Communications in Mathematical Physics</i> , 2010, 295, 791-828.	1.0	79
118	Dissipative phase transition in the open quantum Rabi model. <i>Physical Review A</i> , 2018, 97, .	1.0	79
119	Enhancing light-harvesting power with coherent vibrational interactions: A quantum heat engine picture. <i>Journal of Chemical Physics</i> , 2015, 143, 155102.	1.2	75
120	Probing the Dynamics of a Superradiant Quantum Phase Transition with a Single Trapped Ion. <i>Physical Review Letters</i> , 2017, 118, 073001.	2.9	75
121	Mapping coherence in measurement via full quantum tomography of a hybrid optical detector. <i>Nature Photonics</i> , 2012, 6, 364-368.	15.6	74
122	Chemical Compass Model for Avian Magnetoreception as a Quantum Coherent Device. <i>Physical Review Letters</i> , 2013, 111, 230503.	2.9	74
123	Measuring measurement: theory and practice. <i>New Journal of Physics</i> , 2009, 11, 093038.	1.2	73
124	Scalable Reconstruction of Density Matrices. <i>Physical Review Letters</i> , 2013, 111, 020401.	2.9	73
125	Light-Shift-Induced Quantum Gates for Ions in Thermal Motion. <i>Physical Review Letters</i> , 2001, 87, 127901.	2.9	72
126	Asymptotic Relative Entropy of Entanglement. <i>Physical Review Letters</i> , 2001, 87, 217902.	2.9	72

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127	Quantum-information processing in strongly detuned optical cavities. <i>Physical Review A</i> , 2002, 65, .	1.0	72
128	Spin Chains and Channels with Memory. <i>Physical Review Letters</i> , 2007, 99, 120504.	2.9	72
129	Spontaneous nucleation of structural defects in inhomogeneous ion chains. <i>New Journal of Physics</i> , 2010, 12, 115003.	1.2	72
130	Diamond-based single-molecule magnetic resonance spectroscopy. <i>New Journal of Physics</i> , 2013, 15, 013020.	1.2	71
131	Entanglement dynamics in chains of qubits with noise and disorder. <i>New Journal of Physics</i> , 2007, 9, 79-79.	1.2	68
132	Bloch-Redfield equations for modeling light-harvesting complexes. <i>Journal of Chemical Physics</i> , 2015, 142, 064104.	1.2	68
133	Quantum coherence in ion channels: resonances, transport and verification. <i>New Journal of Physics</i> , 2010, 12, 085001.	1.2	67
134	Hybrid sensors based on colour centres in diamond and piezoactive layers. <i>Nature Communications</i> , 2014, 5, 4065.	5.8	67
135	Excitation and entanglement transfer versus spectral gap. <i>New Journal of Physics</i> , 2006, 8, 94-94.	1.2	66
136	Nanoscale Dynamic Readout of a Chemical Redox Process Using Radicals Coupled with Nitrogen-Vacancy Centers in Nanodiamonds. <i>ACS Nano</i> , 2020, 14, 12938-12950.	7.3	66
137	Quantum and Classical Correlations in Quantum Brownian Motion. <i>Physical Review Letters</i> , 2002, 89, 137902.	2.9	65
138	Optically induced dynamic nuclear spin polarisation in diamond. <i>New Journal of Physics</i> , 2016, 18, 013040.	1.2	65
139	Noise-Enhanced Classical and Quantum Capacities in Communication Networks. <i>Physical Review Letters</i> , 2010, 105, 190501.	2.9	64
140	Measuring Entanglement in Condensed Matter Systems. <i>Physical Review Letters</i> , 2011, 106, 020401.	2.9	64
141	Spatial entanglement of bosons in optical lattices. <i>Nature Communications</i> , 2013, 4, 2161.	5.8	64
142	Robust dynamical decoupling sequences for individual-nuclear-spin addressing. <i>Physical Review A</i> , 2015, 92, .	1.0	64
143	An Introduction to Entanglement Theory. , 2014, , 173-209.		64
144	Quantum error correction in the presence of spontaneous emission. <i>Physical Review A</i> , 1997, 55, 67-71.	1.0	63

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145	Statistics Dependence of the Entanglement Entropy. <i>Physical Review Letters</i> , 2007, 98, 220603.	2.9	63
146	Realising a quantum absorption refrigerator with an atom-cavity system. <i>Quantum Science and Technology</i> , 2016, 1, 015001.	2.6	63
147	Ultrasensitive Magnetometer using a Single Atom. <i>Physical Review Letters</i> , 2016, 116, 240801.	2.9	63
148	Stochastic Resonance Phenomena in Quantum Many-Body Systems. <i>Physical Review Letters</i> , 2007, 98, .	2.9	62
149	Bounds on relative entropy of entanglement for multi-party systems. <i>Journal of Physics A</i> , 2001, 34, 6997-7002.	1.6	61
150	Efficient simulation of non-Markovian system-environment interaction. <i>New Journal of Physics</i> , 2016, 18, 023035.	1.2	60
151	Experimental measurement of the quantum geometric tensor using coupled qubits in diamond. <i>National Science Review</i> , 2020, 7, 254-260.	4.6	59
152	Coherence with incoherent light: A new type of quantum beat for a single atom. <i>Physical Review A</i> , 1993, 47, 2186-2190.	1.0	58
153	A Reversible Theory of Entanglement and its Relation to the Second Law. <i>Communications in Mathematical Physics</i> , 2010, 295, 829-851.	1.0	58
154	Operator monotones, the reduction criterion and the relative entropy. <i>Journal of Physics A</i> , 2000, 33, L193-L197.	1.6	56
155	The emergence of typical entanglement in two-party random processes. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 8081-8108.	0.7	56
156	Excited-state quantum phase transition in the Rabi model. <i>Physical Review A</i> , 2016, 94, .	1.0	56
157	Methods for Detecting Acceleration Radiation in a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2008, 101, 110402.	2.9	55
158	Compact Continuous-Variable Entanglement Distillation. <i>Physical Review Letters</i> , 2012, 108, 060502.	2.9	54
159	Quantum limits for the magnetic sensitivity of a chemical compass. <i>Physical Review A</i> , 2012, 85, .	1.0	53
160	Protected ultrastrong coupling regime of the two-photon quantum Rabi model with trapped ions. <i>Physical Review A</i> , 2017, 95, .	1.0	53
161	Initialization and Readout of Nuclear Spins via a Negatively Charged Silicon-Vacancy Center in Diamond. <i>Physical Review Letters</i> , 2019, 122, 190503.	2.9	53
162	Spin-Mechanical Scheme with Color Centers in Hexagonal Boron Nitride Membranes. <i>Physical Review Letters</i> , 2017, 119, 233602.	2.9	53

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163	Density Matrix Renormalization Group in the Heisenberg Picture. <i>Physical Review Letters</i> , 2009, 102, 057202.	2.9	52
164	Coupling of nitrogen vacancy centres in nanodiamonds by means of phonons. <i>New Journal of Physics</i> , 2013, 15, 083014.	1.2	52
165	Fate of photon blockade in the deep strong-coupling regime. <i>Physical Review A</i> , 2016, 94, .	1.0	52
166	Toward Hyperpolarization of Oil Molecules via Single Nitrogen Vacancy Centers in Diamond. <i>Nano Letters</i> , 2018, 18, 1882-1887.	4.5	51
167	Motional Dynamical Decoupling for Interferometry with Macroscopic Particles. <i>Physical Review Letters</i> , 2020, 125, 023602.	2.9	51
168	Robust generation of entanglement between two cavities mediated by short interactions with an atom. <i>Physical Review A</i> , 2003, 67, .	1.0	50
169	Squeezing the limit: quantum benchmarks for the teleportation and storage of squeezed states. <i>New Journal of Physics</i> , 2008, 10, 113014.	1.2	50
170	Power of symmetric extensions for entanglement detection. <i>Physical Review A</i> , 2009, 80, .	1.0	50
171	Dissipation-Assisted Quantum Information Processing with Trapped Ions. <i>Physical Review Letters</i> , 2013, 110, 110502.	2.9	50
172	Optical hyperpolarization of C^{13} nuclear spins in nanodiamond ensembles. <i>Physical Review B</i> , 2015, 92, .	1.1	50
173	Classical Information and Distillable Entanglement. <i>Physical Review Letters</i> , 2000, 84, 1611-1614.	2.9	49
174	Ground-State Approximation for Strongly Interacting Spin Systems in Arbitrary Spatial Dimension. <i>Physical Review Letters</i> , 2006, 97, 107206.	2.9	49
175	The inhomogeneous Kibble-Zurek mechanism: vortex nucleation during Bose-Einstein condensation. <i>New Journal of Physics</i> , 2011, 13, 083022.	1.2	49
176	Precise Experimental Investigation of Eigenmodes in a Planar Ion Crystal. <i>Physical Review Letters</i> , 2012, 109, 263003.	2.9	49
177	Testing quantum gravity by nanodiamond interferometry with nitrogen-vacancy centers. <i>Physical Review A</i> , 2014, 90, .	1.0	49
178	Optimized auxiliary oscillators for the simulation of general open quantum systems. <i>Physical Review A</i> , 2020, 101, .	1.0	47
179	Universal Quantum Computing with Arbitrary Continuous-Variable Encoding. <i>Physical Review Letters</i> , 2016, 117, 100501.	2.9	45
180	Quantum Coherence of Discrete Kink Solitons in Ion Traps. <i>Physical Review Letters</i> , 2010, 104, 043004.	2.9	44

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181	Coherent optimal control of photosynthetic molecules. <i>Physical Review A</i> , 2012, 85, .	1.0	44
182	Publisher's Note: Logarithmic Negativity: A Full Entanglement Monotone That Is not Convex [<i>Phys. Rev. Lett.</i> 95, 090503 (2005)]. <i>Physical Review Letters</i> , 2005, 95, .	2.9	43
183	Quantum beats revisited: a quantum jump approach. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , 1994, 6, 15-25.	1.2	42
184	Spectral structures induced by electron shelving. <i>Physical Review A</i> , 1995, 52, 3333-3343.	1.0	42
185	Quantum technology: from research to application. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	42
186	A trapped-ion simulator for spin-boson models with structured environments. <i>New Journal of Physics</i> , 2018, 20, 073002.	1.2	42
187	Exact matrix product solutions in the Heisenberg picture of an open quantum spin chain. <i>New Journal of Physics</i> , 2010, 12, 025005.	1.2	41
188	The nature of the low energy band of the Fenna-Matthews-Olson complex: Vibronic signatures. <i>Journal of Chemical Physics</i> , 2012, 136, 155102.	1.2	41
189	Simulating Bosonic Baths with Error Bars. <i>Physical Review Letters</i> , 2015, 115, 130401.	2.9	41
190	Journeys from quantum optics to quantum technology. <i>Progress in Quantum Electronics</i> , 2017, 54, 19-45.	3.5	41
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