

M D Reid

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104
papers

5,036
citations

35
h-index

69
g-index

111
ext. papers

5,733
ext. citations

3.5
avg, IF

5.89
L-index

#	Paper	IF	Citations
104	Demonstration of the Einstein-Podolsky-Rosen paradox using nondegenerate parametric amplification. <i>Physical Review A</i> , 1989 , 40, 913-923	2.6	595
103	Colloquium: The Einstein-Podolsky-Rosen paradox: From concepts to applications. <i>Reviews of Modern Physics</i> , 2009 , 81, 1727-1751	40.5	390
102	Quantum correlations of phase in nondegenerate parametric oscillation. <i>Physical Review Letters</i> , 1988 , 60, 2731-2733	7.4	384
101	Experimental criteria for steering and the Einstein-Podolsky-Rosen paradox. <i>Physical Review A</i> , 2009 , 80,	2.6	337
100	Squeezing of quantum solitons. <i>Physical Review Letters</i> , 1987 , 58, 1841-1844	7.4	201
99	Violations of classical inequalities in quantum optics. <i>Physical Review A</i> , 1986 , 34, 1260-1276	2.6	196
98	Generation of squeezed states via degenerate four-wave mixing. <i>Physical Review A</i> , 1985 , 31, 1622-1635	2.6	180
97	Correlations in nondegenerate parametric oscillation. II. Below threshold results. <i>Physical Review A</i> , 1990 , 41, 3930-3949	2.6	147
96	Genuine multipartite Einstein-Podolsky-Rosen steering. <i>Physical Review Letters</i> , 2013 , 111, 250403	7.4	141
95	Quantum cryptography with a predetermined key, using continuous-variable Einstein-Podolsky-Rosen correlations. <i>Physical Review A</i> , 2000 , 62,	2.6	129
94	Quantum theory of nondegenerate four-wave mixing. <i>Physical Review A</i> , 1986 , 34, 4929-4955	2.6	103
93	Correlations in nondegenerate parametric oscillation: Squeezing in the presence of phase diffusion. <i>Physical Review A</i> , 1989 , 40, 4493-4506	2.6	99
92	Contradiction of Quantum Mechanics with Local Hidden Variables for Quadrature Phase Amplitude Measurements. <i>Physical Review Letters</i> , 1998 , 80, 3169-3172	7.4	87
91	Classifying directional Gaussian entanglement, Einstein-Podolsky-Rosen steering, and discord. <i>Physical Review Letters</i> , 2015 , 114, 060402	7.4	79
90	Monogamy inequalities for the Einstein-Podolsky-Rosen paradox and quantum steering. <i>Physical Review A</i> , 2013 , 88,	2.6	70
89	Signifying quantum benchmarks for qubit teleportation and secure quantum communication using Einstein-Podolsky-Rosen steering inequalities. <i>Physical Review A</i> , 2013 , 88,	2.6	68
88	Unified criteria for multipartite quantum nonlocality. <i>Physical Review A</i> , 2011 , 84,	2.6	67

87	Quantum analysis of intensity fluctuations in the nondegenerate parametric oscillator. <i>Physical Review A</i> , 1988 , 38, 788-799	2.6	67
86	Quantum theory of optical bistability without adiabatic elimination. <i>Physical Review A</i> , 1988 , 37, 4792-4818		65
85	Einstein-Podolsky-Rosen entanglement strategies in two-well Bose-Einstein condensates. <i>Physical Review Letters</i> , 2011 , 106, 120405	7.4	60
84	Einstein-Podolsky-Rosen paradox and quantum steering in pulsed optomechanics. <i>Physical Review A</i> , 2013 , 88,	2.6	59
83	Critical fluctuations and entanglement in the nondegenerate parametric oscillator. <i>Physical Review A</i> , 2004 , 70,	2.6	59
82	Bell inequalities for continuous-variable correlations. <i>Physical Review Letters</i> , 2007 , 99, 210405	7.4	57
81	Squeezing via optical bistability. <i>Physical Review A</i> , 1985 , 32, 396-401	2.6	57
80	Einstein-Podolsky-Rosen entanglement and steering in two-well Bose-Einstein-condensate ground states. <i>Physical Review A</i> , 2012 , 86,	2.6	55
79	Macroscopic quantum superposition states in nondegenerate parametric oscillation. <i>Physical Review A</i> , 1993 , 47, 552-555	2.6	51
78	Criteria for genuine N-partite continuous-variable entanglement and Einstein-Podolsky-Rosen steering. <i>Physical Review A</i> , 2014 , 90,	2.6	47
77	Scalable quantum simulation of pulsed entanglement and Einstein-Podolsky-Rosen steering in optomechanics. <i>Physical Review A</i> , 2014 , 90,	2.6	46
76	Entanglement evolution of two remote and non-identical Jaynes-Cummings atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 065507	1.3	46
75	Planar quantum squeezing and atom interferometry. <i>Physical Review A</i> , 2011 , 84,	2.6	45
74	Signatures for generalized macroscopic superpositions. <i>Physical Review Letters</i> , 2006 , 97, 170405	7.4	44
73	Squeezing of quantum fluctuations via atomic coherence effects. <i>Physical Review Letters</i> , 1985 , 55, 1288-1290	7.4	40
72	Entanglement, EPR steering, and Bell-nonlocality criteria for multipartite higher-spin systems. <i>Physical Review A</i> , 2011 , 83,	2.6	39
71	Contradiction of quantum mechanics with local hidden variables for quadrature phase measurements on pair-coherent states and squeezed macroscopic superpositions of coherent states. <i>Physical Review A</i> , 1999 , 60, 4259-4271	2.6	38
70	Detecting faked continuous-variable entanglement using one-sided device-independent entanglement witnesses. <i>Physical Review A</i> , 2014 , 89,	2.6	35

69	Absorption spectroscopy beyond the shot-noise limit. <i>Physical Review Letters</i> , 1988 , 60, 1940-1942	7.4	35
68	Decoherence of Einstein-Podolsky-Rosen steering. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, A82	1.7	34
67	Macroscopic boson states exhibiting the Greenberger-Horne-Zeilinger contradiction with local realism. <i>Physical Review Letters</i> , 1992 , 69, 997-1001	7.4	30
66	Squeezing in nondegenerate four-wave mixing. <i>Physical Review A</i> , 1986 , 33, 4465-4468	2.6	29
65	Pulsed Entanglement of Two Optomechanical Oscillators and Furry's Hypothesis. <i>Physical Review Letters</i> , 2017 , 119, 023601	7.4	28
64	Spin entanglement, decoherence and Bohm's EPR paradox. <i>Optics Express</i> , 2009 , 17, 18693-702	3.3	27
63	Dynamical oscillator-cavity model for quantum memories. <i>Physical Review A</i> , 2009 , 79,	2.6	27
62	Violation of multiparticle Bell inequalities for low- and high-flux parametric amplification using both vacuum and entangled input states. <i>Physical Review A</i> , 2002 , 66,	2.6	27
61	Transient macroscopic quantum superposition states in degenerate parametric oscillation: Calculations in the large-quantum-noise limit using the positive P representation. <i>Physical Review A</i> , 1994 , 50, 4330-4338	2.6	27
60	Dynamical preparation of Einstein-Podolsky-Rosen entanglement in two-well Bose-Einstein condensates. <i>Physical Review A</i> , 2012 , 86,	2.6	25
59	Quantifying the mesoscopic quantum coherence of approximate NOON states and spin-squeezed two-mode Bose-Einstein condensates. <i>Physical Review A</i> , 2016 , 94,	2.6	25
58	Criteria for generalized macroscopic and mesoscopic quantum coherence. <i>Physical Review A</i> , 2008 , 77,	2.6	24
57	Continuous variable tripartite entanglement and Einstein-Podolsky-Rosen correlations from triple nonlinearities. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006 , 39, 2515-2533	1.3	22
56	Effect of bistability and superpositions on quantum statistics in degenerate parametric oscillation. <i>Physical Review A</i> , 1992 , 46, 4131-4137	2.6	22
55	Testing for multipartite quantum nonlocality using functional bell inequalities. <i>Physical Review Letters</i> , 2009 , 103, 180402	7.4	20
54	Violation of Bell's Inequalities in Quantum Optics. <i>Physical Review Letters</i> , 1984 , 53, 955-957	7.4	20
53	Uncertainty relations for the realization of macroscopic quantum superpositions and EPR paradoxes. <i>Journal of Modern Optics</i> , 2007 , 54, 2373-2380	1.1	19
52	Incompatibility of macroscopic local realism with quantum mechanics in measurements with macroscopic uncertainties. <i>Physical Review Letters</i> , 2000 , 84, 2765-9	7.4	19

51	Quantum entanglement for systems of identical bosons: I. General features. <i>Physica Scripta</i> , 2017 , 92, 023004	2.6	18
50	Entanglement, number fluctuations and optimized interferometric phase measurement. <i>New Journal of Physics</i> , 2012 , 14, 093012	2.9	18
49	Bright continuous-variable entanglement from the quantum optical dimer. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008 , 41, 015501	1.3	18
48	Laser bandwidth effects on squeezing in intracavity parametric oscillation. <i>Physical Review A</i> , 1988 , 37, 1806-1808	2.6	18
47	Violation of Bell inequality by macroscopic states generated via parametric down-conversion. <i>Physical Review A</i> , 1993 , 47, 4412-4421	2.6	17
46	Quantum-noise reduction in intracavity four-wave mixing. <i>Physical Review A</i> , 1990 , 42, 6767-6773	2.6	17
45	Nonlinear entanglement and its application to generating cat States. <i>Physical Review Letters</i> , 2015 , 114, 100403	7.4	16
44	Bell inequalities for continuous-variable measurements. <i>Physical Review A</i> , 2010 , 81,	2.6	15
43	Transient macroscopic quantum superposition states in degenerate parametric oscillation using squeezed reservoir fields. <i>Physical Review A</i> , 1995 , 52, 2388-2391	2.6	13
42	Probabilistic quantum phase-space simulation of Bell violations and their dynamical evolution. <i>Physical Review A</i> , 2014 , 90,	2.6	12
41	Quantum probabilistic sampling of multipartite 60-qubit Bell-inequality violations. <i>Physical Review A</i> , 2014 , 90,	2.6	12
40	Squeezing in four-wave mixing in anharmonic-oscillator model. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1985 , 2, 1682	1.7	12
39	Dynamics of transient cat states in degenerate parametric oscillation with and without nonlinear Kerr interactions. <i>Physical Review A</i> , 2020 , 101,	2.6	11
38	Quantum entanglement for systems of identical bosons: II. Spin squeezing and other entanglement tests. <i>Physica Scripta</i> , 2017 , 92, 023005	2.6	11
37	Creation, storage, and retrieval of an optomechanical cat state. <i>Physical Review A</i> , 2018 , 98,	2.6	11
36	Towards an Einstein-Podolsky-Rosen paradox between two macroscopic atomic ensembles at room temperature. <i>New Journal of Physics</i> , 2013 , 15, 063027	2.9	10
35	Conservation rules for entanglement transfer between qubits. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010 , 43, 215505	1.3	10
34	Violations of Bell inequalities for measurements with macroscopic uncertainties: What it means to violate macroscopic local realism. <i>Physical Review A</i> , 2000 , 62,	2.6	10

33	Simulating Bell violations without quantum computers. <i>Physica Scripta</i> , 2014 , T160, 014009	2.6	9
32	Implications of the recent experimental realisation of the Einstein-Podolsky-Rosen paradox. <i>Europhysics Letters</i> , 1996 , 36, 1-6	1.6	9
31	Quantifying the Mesoscopic Nature of Einstein-Podolsky-Rosen Nonlocality. <i>Physical Review Letters</i> , 2019 , 123, 120402	7.4	8
30	Leggett-Garg tests of macrorealism for bosonic systems including double-well Bose-Einstein condensates and atom interferometers. <i>Physical Review A</i> , 2018 , 97,	2.6	8
29	Einstein-Podolsky-Rosen steering, depth of steering, and planar spin squeezing in two-mode Bose-Einstein condensates. <i>Physical Review A</i> , 2018 , 98,	2.6	8
28	Macroscopic elements of reality and the Einstein - Podolsky - Rosen paradox. <i>Quantum and Semiclassical Optics: Journal of the European Optical Society Part B</i> , 1997 , 9, 489-499		8
27	Signifying the nonlocality of NOON states using Einstein-Podolsky-Rosen steering inequalities. <i>Physical Review A</i> , 2016 , 94,	2.6	8
26	Squeezing of intensity fluctuations in frequency summation. <i>Physical Review A</i> , 1994 , 49, 2881-2890	2.6	7
25	Bell inequalities for falsifying mesoscopic local realism via amplification of quantum noise. <i>Physical Review A</i> , 2018 , 97,	2.6	6
24	Weak measurements and quantum weak values for NOON states. <i>Physical Review A</i> , 2018 , 97,	2.6	6
23	Digital quantum memories with symmetric pulses. <i>Optics Express</i> , 2009 , 17, 9662-8	3.3	6
22	Multiparticle and higher-spin tests of quantum mechanics using parametric down-conversion. <i>Physical Review A</i> , 1994 , 50, 3661-3681	2.6	6
21	Quantum noise reduction in the squeezed pump non-degenerate parametric oscillator. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , 1992 , 4, 181-187		6
20	Interpreting the macroscopic pointer by analysing the elements of reality of a Schrödinger cat. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017 , 50, 41LT01	2	5
19	Simulation of an optomechanical quantum memory in the nonlinear regime. <i>Physical Review A</i> , 2017 , 96,	2.6	5
18	Macroscopic quantum Schrödinger and Einstein-Podolsky-Rosen paradoxes. <i>Journal of Modern Optics</i> , 2005 , 52, 2245-2252	1.1	5
17	Criteria to detect genuine multipartite entanglement using spin measurements. <i>Physical Review A</i> , 2019 , 100,	2.6	4
16	Bell Inequalities with Schrödinger Cats. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2001 , 56, 220-223	1.4	4

15	Theory of Squeezed Light Generation. <i>Springer Proceedings in Physics</i> , 1986 , 31-45	0.2	4
14	Mesoscopic two-mode entangled and steerable states of 40 000 atoms in a Bose-Einstein-condensate interferometer. <i>Physical Review A</i> , 2019 , 100,	2.6	4
13	Monogamy inequalities for certifiers of continuous-variable Einstein-Podolsky-Rosen entanglement without the assumption of Gaussianity. <i>Physical Review A</i> , 2017 , 96,	2.6	3
12	Violations of Bell inequalities in multiparticle states generated using parametric amplification. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , 1994 , 6, 1-8		3
11	Overcoming decoherence of Schrödinger cat states formed in a cavity using squeezed-state inputs. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
10	Criteria to detect macroscopic quantum coherence, macroscopic quantum entanglement, and an Einstein-Podolsky-Rosen paradox for macroscopic superposition states. <i>Physical Review A</i> , 2019 , 100,	2.6	3
9	Tests for Einstein-Podolsky-Rosen steering in two-mode systems of identical massive bosons. <i>Physical Review A</i> , 2020 , 101,	2.6	2
8	Simulating complex networks in phase space: Gaussian boson sampling. <i>Physical Review A</i> , 2022 , 105,	2.6	2
7	Einstein-Podolsky-Rosen Correlations, Entanglement and Quantum Cryptography. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2004 , 337-364	0.4	1
6	Testing macroscopic local realism using local nonlinear dynamics and time settings. <i>Physical Review A</i> , 2020 , 102,	2.6	1
5	Einstein-Podolsky-Rosen quantum simulations in nonclassical phase-space. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, A64	1.7	
4	Continuous variable tripartite entanglement and Einstein-Podolsky-Rosen correlations from triple nonlinearities. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2007 , 103, 187-192	0.7	
3	Einstein-Podolsky-Rosen Correlations in Nondegenerate Parametric Amplification. <i>Springer Proceedings in Physics</i> , 1989 , 111-121	0.2	
2	Optical Einstein-Podolsky-Rosen Correlations 1990 , 981-985		
1	Phase-Sensitive Quantum Spectroscopy. <i>Springer Series in Optical Sciences</i> , 1985 , 254-257	0.5	