

# M D Reid

## List of Publications by Year in descending order

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110  
papers

6,198  
citations

101535  
36  
h-index

69246  
77  
g-index

111  
all docs

111  
docs citations

111  
times ranked

2041  
citing authors

#	ARTICLE	IF	CITATIONS
1	Demonstration of the Einstein-Podolsky-Rosen paradox using nondegenerate parametric amplification. Physical Review A, 1989, 40, 913-923.	2.5	716
2	<i>Colloquium</i>: The Einstein-Podolsky-Rosen paradox: From concepts to applications. Reviews of Modern Physics, 2009, 81, 1727-1751.	45.6	518
3	Experimental criteria for steering and the Einstein-Podolsky-Rosen paradox. Physical Review A, 2009, 80, .	2.5	463
4	Quantum Correlations of Phase in Nondegenerate Parametric Oscillation. Physical Review Letters, 1988, 60, 2731-2733.	7.8	426
5	Squeezing of quantum solitons. Physical Review Letters, 1987, 58, 1841-1844.	7.8	226
6	Violations of classical inequalities in quantum optics. Physical Review A, 1986, 34, 1260-1276.	2.5	216
7	Generation of squeezed states via degenerate four-wave mixing. Physical Review A, 1985, 31, 1622-1635.	2.5	190
8	Genuine Multipartite Einstein-Podolsky-Rosen Steering. Physical Review Letters, 2013, 111, 250403.	7.8	188
9	Correlations in nondegenerate parametric oscillation. II. Below threshold results. Physical Review A, 1990, 41, 3930-3949.	2.5	158
10	Quantum cryptography with a predetermined key, using continuous-variable Einstein-Podolsky-Rosen correlations. Physical Review A, 2000, 62, .	2.5	158
11	Classifying Directional Gaussian Entanglement, Einstein-Podolsky-Rosen Steering, and Discord. Physical Review Letters, 2015, 114, 060402.	7.8	111
12	Quantum theory of nondegenerate four-wave mixing. Physical Review A, 1986, 34, 4929-4955.	2.5	109
13	Correlations in nondegenerate parametric oscillation: Squeezing in the presence of phase diffusion. Physical Review A, 1989, 40, 4493-4506.	2.5	109
14	Signifying quantum benchmarks for qubit teleportation and secure quantum communication using Einstein-Podolsky-Rosen steering inequalities. Physical Review A, 2013, 88, .	2.5	106
15	Contradiction of Quantum Mechanics with Local Hidden Variables for Quadrature Phase Amplitude Measurements. Physical Review Letters, 1998, 80, 3169-3172.	7.8	100
16	Unified criteria for multipartite quantum nonlocality. Physical Review A, 2011, 84, .	2.5	100
17	Monogamy inequalities for the Einstein-Podolsky-Rosen paradox and quantum steering. Physical Review A, 2013, 88, .	2.5	98
18	Einstein-Podolsky-Rosen paradox and quantum steering in pulsed optomechanics. Physical Review A, 2013, 88, .	2.5	79

#	ARTICLE	IF	CITATIONS
19	Bell Inequalities for Continuous-Variable Correlations. Physical Review Letters, 2007, 99, 210405.	7.8	78
20	Einstein-Podolsky-Rosen Entanglement Strategies in Two-Well Bose-Einstein Condensates. Physical Review Letters, 2011, 106, 120405.	7.8	73
21	Quantum analysis of intensity fluctuations in the nondegenerate parametric oscillator. Physical Review A, 1988, 38, 788-799.	2.5	71
22	Quantum theory of optical bistability without adiabatic elimination. Physical Review A, 1988, 37, 4792-4818.	2.5	67
23	Einstein-Podolsky-Rosen entanglement and steering in two-well Bose-Einstein-condensate ground states. Physical Review A, 2012, 86, .	2.5	67
24	Criteria for genuine $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle mml:mi>N\langle /mml:mi\rangle \langle /mml:math\rangle$ -partite continuous-variable entanglement and Einstein-Podolsky-Rosen steering. Physical Review A, 2014, 90, .	2.5	67
25	Critical fluctuations and entanglement in the nondegenerate parametric oscillator. Physical Review A, 2004, 70, .	2.5	66
26	Squeezing via optical bistability. Physical Review A, 1985, 32, 396-401.	2.5	61
27	Scalable quantum simulation of pulsed entanglement and Einstein-Podolsky-Rosen steering in optomechanics. Physical Review A, 2014, 90, .	2.5	58
28	Planar quantum squeezing and atom interferometry. Physical Review A, 2011, 84, .	2.5	56
29	Entanglement evolution of two remote and non-identical Jaynes-Cummings atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 065507.	1.5	54
30	Macroscopic quantum superposition states in nondegenerate parametric oscillation. Physical Review A, 1993, 47, 552-555.	2.5	53
31	Signatures for Generalized Macroscopic Superpositions. Physical Review Letters, 2006, 97, 170405.	7.8	49
32	Detecting faked continuous-variable entanglement using one-sided device-independent entanglement witnesses. Physical Review A, 2014, 89, .	2.5	49
33	Decoherence of Einstein-Podolsky-Rosen steering. Journal of the Optical Society of America B: Optical Physics, 2015, 32, A82.	2.1	49
34	Entanglement, EPR steering, and Bell-nonlocality criteria for multipartite higher-spin systems. Physical Review A, 2011, 83, .	2.5	48
35	Contradiction of quantum mechanics with local hidden variables for quadrature phase measurements on pair-coherent states and squeezed macroscopic superpositions of coherent states. Physical Review A, 1999, 60, 4259-4271.	2.5	46
36	Squeezing of Quantum Fluctuations via Atomic Coherence Effects. Physical Review Letters, 1985, 55, 1288-1290.	7.8	44

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37	Pulsed Entanglement of Two Optomechanical Oscillators and Furryâ€™s Hypothesis. <i>Physical Review Letters</i> , 2017, 119, 023601.	7.8	38
38	Absorption Spectroscopy beyond the Shot-Noise Limit. <i>Physical Review Letters</i> , 1988, 60, 1940-1942.	7.8	35
39	Macroscopic boson states exhibiting the Greenberger-Horne-Zeilinger contradiction with local realism. <i>Physical Review Letters</i> , 1992, 69, 997-1001.	7.8	35
40	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, .	2.5	34
41	Spin entanglement, decoherence and Bohmâ€™s EPR paradox. <i>Optics Express</i> , 2009, 17, 18693.	3.4	33
42	Dynamical oscillator-cavity model for quantum memories. <i>Physical Review A</i> , 2009, 79, .	2.5	32
43	Transient macroscopic quantum superposition states in degenerate parametric oscillation: Calculations in the large-quantum-noise limit using the positivePrepresentation. <i>Physical Review A</i> , 1994, 50, 4330-4338.	2.5	31
44	Squeezing in nondegenerate four-wave mixing. <i>Physical Review A</i> , 1986, 33, 4465-4468.	2.5	29
45	Criteria for generalized macroscopic and mesoscopic quantum coherence. <i>Physical Review A</i> , 2008, 77, .	2.5	29
46	Dynamical preparation of Einstein-Podolsky-Rosen entanglement in two-well Bose-Einstein condensates. <i>Physical Review A</i> , 2012, 86, .	2.5	29
47	Quantifying the mesoscopic quantum coherence of approximate NOON states and spin-squeezed two-mode Bose-Einstein condensates. <i>Physical Review A</i> , 2016, 94, .	2.5	29
48	Testing for Multipartite Quantum Nonlocality Using Functional Bell Inequalities. <i>Physical Review Letters</i> , 2009, 103, 180402.	7.8	27
49	Quantum entanglement for systems of identical bosons: I. General features. <i>Physica Scripta</i> , 2017, 92, 023004.	2.5	27
50	Nonlinear Entanglement and its Application to Generating Cat States. <i>Physical Review Letters</i> , 2015, 114, 100403.	7.8	26
51	Effect of bistability and superpositions on quantum statistics in degenerate parametric oscillation. <i>Physical Review A</i> , 1992, 46, 4131-4137.	2.5	24
52	Continuous variable tripartite entanglement and Einsteinâ€“Podolskyâ€“Rosen correlations from triple nonlinearities. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 2515-2533.	1.5	24
53	Dynamics of transient cat states in degenerate parametric oscillation with and without nonlinear Kerr interactions. <i>Physical Review A</i> , 2020, 101, .	2.5	24
54	Incompatibility of Macroscopic Local Realism with Quantum Mechanics in Measurements with Macroscopic Uncertainties. <i>Physical Review Letters</i> , 2000, 84, 2765-2769.	7.8	23

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55	Uncertainty relations for the realization of macroscopic quantum superpositions and EPR paradoxes. Journal of Modern Optics, 2007, 54, 2373-2380.		1.3	23
56	Entanglement, number fluctuations and optimized interferometric phase measurement. New Journal of Physics, 2012, 14, 093012.		2.9	23
57	Violation of Bell's Inequalities in Quantum Optics. Physical Review Letters, 1984, 53, 955-957.		7.8	22
58	Bell inequalities for continuous-variable measurements. Physical Review A, 2010, 81, .		2.5	22
59	Creation, storage, and retrieval of an optomechanical cat state. Physical Review A, 2018, 98, .		2.5	21
60	Quantum entanglement for systems of identical bosons: II. Spin squeezing and other entanglement tests. Physica Scripta, 2017, 92, 023005.		2.5	20
61	Bright continuous-variable entanglement from the quantum optical dimer. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 015501.		1.5	19
62	Laser bandwidth effects on squeezing in intracavity parametric oscillation. Physical Review A, 1988, 37, 1806-1808.		2.5	18
63	Violation of Bellâ€™s inequality by macroscopic states generated via parametric down-conversion. Physical Review A, 1993, 47, 4412-4421.		2.5	18
64	Quantum-noise reduction in intracavity four-wave mixing. Physical Review A, 1990, 42, 6767-6773.		2.5	17
65	Transient macroscopic quantum superposition states in degenerate parametric oscillation using squeezed reservoir fields. Physical Review A, 1995, 52, 2388-2391.		2.5	16
66	Probabilistic quantum phase-space simulation of Bell violations and their dynamical evolution. Physical Review A, 2014, 90, .		2.5	16
67	Quantum probabilistic sampling of multipartite 60-qubit Bell-inequality violations. Physical Review A, 2014, 90, .		2.5	14
68	Leggett-Garg tests of macrorealism for bosonic systems including double-well Bose-Einstein condensates and atom interferometers. Physical Review A, 2018, 97, .		2.5	14
69	Overcoming decoherence of Schrödinger cat states formed in a cavity using squeezed-state inputs. Physical Review Research, 2020, 2, .		3.6	14
70	Simulating complex networks in phase space: Gaussian boson sampling. Physical Review A, 2022, 105, .		2.5	14
71	Squeezing in four-wave mixingâ€”anharmonic-oscillator model. Journal of the Optical Society of America B: Optical Physics, 1985, 2, 1682.		2.1	13
72	Violations of Bell inequalities for measurements with macroscopic uncertainties: What it means to violate macroscopic local realism. Physical Review A, 2000, 62, .		2.5	13

#	ARTICLE	IF	CITATIONS
73	Towards an Einsteinâ€“Podolskyâ€“Rosen paradox between two macroscopic atomic ensembles at room temperature. <i>New Journal of Physics</i> , 2013, 15, 063027.	2.9	13
74	Signifying the nonlocality of NOON states using Einstein-Podolsky-Rosen steering inequalities. <i>Physical Review A</i> , 2016, 94, .	2.5	13
75	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.	2.1	12
76	Simulation of an optomechanical quantum memory in the nonlinear regime. <i>Physical Review A</i> , 2017, 96, .	2.5	12
77	Simulating Bell violations without quantum computers. <i>Physica Scripta</i> , 2014, T160, 014009.	2.5	11
78	Quantifying the Mesoscopic Nature of Einstein-Podolsky-Rosen Nonlocality. <i>Physical Review Letters</i> , 2019, 123, 120402.	7.8	11
79	Mesoscopic two-mode entangled and steerable states of 40,000 atoms in a Bose-Einstein-condensate interferometer. <i>Physical Review A</i> , 2019, 100, .	2.5	11
80	Implications of the recent experimental realisation of the Einstein-Podolsky-Rosen paradox. <i>Europhysics Letters</i> , 1996, 36, 1-6.	2.0	10
81	Conservation rules for entanglement transfer between qubits. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 215505.	1.5	10
82	Einstein-Podolsky-Rosen steering, depth of steering, and planar spin squeezing in two-mode Bose-Einstein condensates. <i>Physical Review A</i> , 2018, 98, .	2.5	10
83	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.	0.9	9
84	Bell inequalities for falsifying mesoscopic local realism via amplification of quantum noise. <i>Physical Review A</i> , 2018, 97, .	2.5	9
85	Testing macroscopic local realism using local nonlinear dynamics and time settings. <i>Physical Review A</i> , 2020, 102, .	2.5	9
86	Weak measurements and quantum weak values for NOON states. <i>Physical Review A</i> , 2018, 97, .	2.5	8
87	Squeezing of intensity fluctuations in frequency summation. <i>Physical Review A</i> , 1994, 49, 2881-2890.	2.5	7
88	Multiparticle and higher-spin tests of quantum mechanics using parametric down-conversion. <i>Physical Review A</i> , 1994, 50, 3661-3681.	2.5	7
89	Criteria to detect genuine multipartite entanglement using spin measurements. <i>Physical Review A</i> , 2019, 100, .	2.5	7
90	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.	1.2	6

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91	Digital quantum memories with symmetric pulses. Optics Express, 2009, 17, 9662.	3.4	6
92	Criteria to detect macroscopic quantum coherence, macroscopic quantum entanglement, and an Einstein-Podolsky-Rosen paradox for macroscopic superposition states. Physical Review A, 2019, 100, .	2.5	6
93	Bell Inequalities with Schrödinger Cats. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2001, 56, 220-223.	1.5	5
94	Macroscopic quantum Schrödinger and Einstein-Podolsky-Rosen paradoxes. Journal of Modern Optics, 2005, 52, 2245-2252.	1.3	5
95	Tests for Einstein-Podolsky-Rosen steering in two-mode systems of identical massive bosons. Physical Review A, 2020, 101, .	2.5	5
96	Bipartite Leggett-Garg and macroscopic Bell-inequality violations using cat states: Distinguishing weak and deterministic macroscopic realism. Physical Review A, 2022, 105, .	2.5	5
97	Monogamy inequalities for certifiers of continuous-variable Einstein-Podolsky-Rosen entanglement without the assumption of Gaussianity. Physical Review A, 2017, 96, .	2.5	4
98	Theory of Squeezed Light Generation. Springer Proceedings in Physics, 1986, , 31-45.	0.2	4
99	Violations of Bell's inequalities in multiparticle states generated using parametric amplification. Journal of the European Optical Society Part B: Quantum Optics, 1994, 6, 1-8.	1.2	3
100	Two-setting multisite Bell inequalities for loophole-free tests with up to 50%loss. Physical Review A, 2013, 87, .	2.5	2
101	Einstein-Podolsky-Rosen Correlations, Entanglement and Quantum Cryptography. Springer Series on Atomic, Optical, and Plasma Physics, 2004, , 337-364.	0.2	2
102	Macroscopic delayed choice and retrocausality: Quantum eraser, Leggett-Garg, and dimension witness tests with cat states. Physical Review A, 2022, 105, .	2.5	2
103	Violations of multisetting quaternion and octonion Bell inequalities. Physical Review A, 2015, 92, .	2.5	1
104	Continuous variable tripartite entanglement and Einstein-Podolsky-Rosen correlations from triple nonlinearities. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2007, 103, 187-192.	0.6	0
105	Planar quantum squeezing and atom interferometry., 2011, , .		0
106	Einstein-Podolsky-Rosen quantum simulations in nonclassical phase-space. Journal of the Optical Society of America B: Optical Physics, 2015, 32, A64.	2.1	0
107	New S-scopic and multipartite EPR and Bell inequalities. , 2008, , .		0
108	Multipartite quantum nonlocality using functional Bell inequalities. , 2009, , .		0

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109	Einstein-Podolsky-Rosen Correlations in Nondegenerate Parametric Amplification. Springer Proceedings in Physics, 1989, , 111-121.	0.2	0
110	Optical Einstein-Podolsky-Rosen Correlations. , 1990, , 981-985.		0