

Margaret D Reid

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130
papers

6,088
citations

40
h-index

76
g-index

145
ext. papers

6,971
ext. citations

3.7
avg, IF

6.03
L-index

#	Paper	IF	Citations
130	Simulating complex networks in phase space: Gaussian boson sampling. <i>Physical Review A</i> , 2022 , 105,	2.6	2
129	Simulating macroscopic quantum correlations in linear networks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022 , 429, 127911	2.3	1
128	Full multipartite steering inseparability, genuine multipartite steering, and monogamy for continuous-variable systems. <i>Physical Review A</i> , 2022 , 105,	2.6	1
127	Fate of the False Vacuum: Finite Temperature, Entropy, and Topological Phase in Quantum Simulations of the Early Universe. <i>PRX Quantum</i> , 2021 , 2,	6.1	2
126	Tests for Einstein-Podolsky-Rosen steering in two-mode systems of identical massive bosons. <i>Physical Review A</i> , 2020 , 101,	2.6	2
125	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
124	Retrocausal model of reality for quantum fields. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
123	Overcoming decoherence of Schrödinger cat states formed in a cavity using squeezed-state inputs. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
122	Testing macroscopic local realism using local nonlinear dynamics and time settings. <i>Physical Review A</i> , 2020 , 102,	2.6	1
121	Criteria to detect genuine multipartite entanglement using spin measurements. <i>Physical Review A</i> , 2019 , 100,	2.6	4
120	Schrödinger cat states and steady states in subharmonic generation with Kerr nonlinearities. <i>Physical Review A</i> , 2019 , 100,	2.6	8
119	Quantifying the Mesoscopic Nature of Einstein-Podolsky-Rosen Nonlocality. <i>Physical Review Letters</i> , 2019 , 123, 120402	7.4	8
118	Nonlocal Pair Correlations in a Higher-Order Bose Gas Soliton. <i>Physical Review Letters</i> , 2019 , 122, 203604,	7.4	7
117	Quantum fidelity measures for mixed states. <i>Reports on Progress in Physics</i> , 2019 , 82, 076001	14.4	33
116	Leggett-Garg tests of macrorealism for dynamical cat states evolving in a nonlinear medium. <i>Physical Review A</i> , 2019 , 99,	2.6	5
115	Discrete time symmetry breaking in quantum circuits: exact solutions and tunneling. <i>New Journal of Physics</i> , 2019 , 21, 093035	2.9	8
114	Robustness of quantum Fourier transform interferometry. <i>Optics Letters</i> , 2019 , 44, 343-346	3	7

113	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
112	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
111	Bell inequalities for falsifying mesoscopic local realism via amplification of quantum noise. <i>Physical Review A</i> , 2018 , 97,	2.6	6
110	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
109	Simulating and assessing boson sampling experiments with phase-space representations. <i>Physical Review A</i> , 2018 , 97,	2.6	9
108	Weak measurements and quantum weak values for NOON states. <i>Physical Review A</i> , 2018 , 97,	2.6	6
107	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
106	Creation, storage, and retrieval of an optomechanical cat state. <i>Physical Review A</i> , 2018 , 98,	2.6	11
105	Quantum entanglement for systems of identical bosons: I. General features. <i>Physica Scripta</i> , 2017 , 92, 023004	2.6	18
104	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
103	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
102	Pulsed Entanglement of Two Optomechanical Oscillators and Furry's Hypothesis. <i>Physical Review Letters</i> , 2017 , 119, 023601	7.4	28
101	Simulation of an optomechanical quantum memory in the nonlinear regime. <i>Physical Review A</i> , 2017 , 96,	2.6	5
100	Quantum entanglement for systems of identical bosons: II. Spin squeezing and other entanglement tests. <i>Physica Scripta</i> , 2017 , 92, 023005	2.6	11
99	Scaling of boson sampling experiments. <i>Physical Review A</i> , 2016 , 94,	2.6	10
98	Signifying the nonlocality of NOON states using Einstein-Podolsky-Rosen steering inequalities. <i>Physical Review A</i> , 2016 , 94,	2.6	8
97	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
96	Coherent states in projected Hilbert spaces. <i>Physical Review A</i> , 2016 , 94,	2.6	5

95	EinsteinPodolskyRosen quantum simulations in nonclassical phase-space. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, A64	1.7	
94	Decoherence of EinsteinPodolskyRosen steering. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, A82	1.7	34
93	Secure Continuous Variable Teleportation and Einstein-Podolsky-Rosen Steering. <i>Physical Review Letters</i> , 2015 , 115, 180502	7.4	147
92	Nonlinear entanglement and its application to generating cat States. <i>Physical Review Letters</i> , 2015 , 114, 100403	7.4	16
91	Multipartite EinsteinPodolskyRosen steering and genuine tripartite entanglement with optical networks. <i>Nature Physics</i> , 2015 , 11, 167-172	16.2	166
90	Classifying directional Gaussian entanglement, Einstein-Podolsky-Rosen steering, and discord. <i>Physical Review Letters</i> , 2015 , 114, 060402	7.4	79
89	Probabilistic simulation of mesoscopic Schrödinger cat states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 946-949	2.3	6
88	Scalable quantum simulation of pulsed entanglement and Einstein-Podolsky-Rosen steering in optomechanics. <i>Physical Review A</i> , 2014 , 90,	2.6	46
87	Probabilistic quantum phase-space simulation of Bell violations and their dynamical evolution. <i>Physical Review A</i> , 2014 , 90,	2.6	12
86	Quantum probabilistic sampling of multipartite 60-qubit Bell-inequality violations. <i>Physical Review A</i> , 2014 , 90,	2.6	12
85	Simulating Bell violations without quantum computers. <i>Physica Scripta</i> , 2014 , T160, 014009	2.6	9
84	Detecting faked continuous-variable entanglement using one-sided device-independent entanglement witnesses. <i>Physical Review A</i> , 2014 , 89,	2.6	35
83	Criteria for genuine N-partite continuous-variable entanglement and Einstein-Podolsky-Rosen steering. <i>Physical Review A</i> , 2014 , 90,	2.6	47
82	Monogamy inequalities for the Einstein-Podolsky-Rosen paradox and quantum steering. <i>Physical Review A</i> , 2013 , 88,	2.6	70
81	Genuine multipartite Einstein-Podolsky-Rosen steering. <i>Physical Review Letters</i> , 2013 , 111, 250403	7.4	141
80	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
79	Towards an EinsteinPodolskyRosen paradox between two macroscopic atomic ensembles at room temperature. <i>New Journal of Physics</i> , 2013 , 15, 063027	2.9	10
78	Einstein-Podolsky-Rosen paradox and quantum steering in pulsed optomechanics. <i>Physical Review A</i> , 2013 , 88,	2.6	59

77	Quantum dynamics in ultracold atomic physics. <i>Frontiers of Physics</i> , 2012 , 7, 16-30	3.7	11
76	Entanglement and nonlocality in multi-particle systems. <i>Frontiers of Physics</i> , 2012 , 7, 72-85	3.7	18
75	Einstein-Podolsky-Rosen entanglement and steering in two-well Bose-Einstein-condensate ground states. <i>Physical Review A</i> , 2012 , 86,	2.6	55
74	Dynamical preparation of Einstein-Podolsky-Rosen entanglement in two-well Bose-Einstein condensates. <i>Physical Review A</i> , 2012 , 86,	2.6	25
73	Entanglement, number fluctuations and optimized interferometric phase measurement. <i>New Journal of Physics</i> , 2012 , 14, 093012	2.9	18
72	Unified criteria for multipartite quantum nonlocality. <i>Physical Review A</i> , 2011 , 84,	2.6	67
71	Entanglement, EPR steering, and Bell-nonlocality criteria for multipartite higher-spin systems. <i>Physical Review A</i> , 2011 , 83,	2.6	39
70	Einstein-Podolsky-Rosen entanglement strategies in two-well Bose-Einstein condensates. <i>Physical Review Letters</i> , 2011 , 106, 120405	7.4	60
69	Planar quantum squeezing and atom interferometry. <i>Physical Review A</i> , 2011 , 84,	2.6	45
68	Conservation rules for entanglement transfer between qubits. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010 , 43, 215505	1.3	10
67	Bell inequalities for continuous-variable measurements. <i>Physical Review A</i> , 2010 , 81,	2.6	15
66	Testing for multipartite quantum nonlocality using functional bell inequalities. <i>Physical Review Letters</i> , 2009 , 103, 180402	7.4	20
65	Experimental criteria for steering and the Einstein-Podolsky-Rosen paradox. <i>Physical Review A</i> , 2009 , 80,	2.6	337
64	Colloquium: The Einstein-Podolsky-Rosen paradox: From concepts to applications. <i>Reviews of Modern Physics</i> , 2009 , 81, 1727-1751	40.5	390
63	Digital quantum memories with symmetric pulses. <i>Optics Express</i> , 2009 , 17, 9662-8	3.3	6
62	Spin entanglement, decoherence and Bohm's EPR paradox. <i>Optics Express</i> , 2009 , 17, 18693-702	3.3	27
61	Dynamical oscillator-cavity model for quantum memories. <i>Physical Review A</i> , 2009 , 79,	2.6	27
60	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

59	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
58	Criteria for generalized macroscopic and mesoscopic quantum coherence. <i>Physical Review A</i> , 2008 , 77,	2.6	24
57	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
56	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	6.7	
55	Bell inequalities for continuous-variable correlations. <i>Physical Review Letters</i> , 2007 , 99, 210405	7.4	57
54	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
53	Signatures for generalized macroscopic superpositions. <i>Physical Review Letters</i> , 2006 , 97, 170405	7.4	44
52	Macroscopic quantum Schrödinger and Einstein-Podolsky-Rosen paradoxes. <i>Journal of Modern Optics</i> , 2005 , 52, 2245-2252	1.1	5
51	Critical fluctuations and entanglement in the nondegenerate parametric oscillator. <i>Physical Review A</i> , 2004 , 70,	2.6	59
50	Einstein-Podolsky-Rosen Correlations, Entanglement and Quantum Cryptography. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2004 , 337-364	0.4	1
49	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
48	Bell Inequalities with Schrödinger Cats. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2001 , 56, 220-223	1.4	4
47	New Tests of Macroscopic Local Realism 2001 , 176-186		
46	Quantum cryptography with a predetermined key, using continuous-variable Einstein-Podolsky-Rosen correlations. <i>Physical Review A</i> , 2000 , 62,	2.6	129
45	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
44	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
43	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
42	Macroscopic Local Realism: How Do We Define It and Is It Compatible with Quantum Mechanics?. <i>Annals of Physics</i> , 1998 , 265, 52-79	2.5	5

41	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
40	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
39	Implications of the recent experimental realisation of the Einstein-Podolsky-Rosen paradox. <i>Europhysics Letters</i> , 1996 , 36, 1-6	1.6	9
38	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
37	Violations of Bell's 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
36	Squeezing of intensity fluctuations in frequency summation. <i>Physical Review A</i> , 1994 , 49, 2881-2890	2.6	7
35	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
34	Multiparticle and higher-spin tests of quantum mechanics using parametric down-conversion. <i>Physical Review A</i> , 1994 , 50, 3661-3681	2.6	6
33	Violation of Bell's inequality by macroscopic states generated via parametric down-conversion. <i>Physical Review A</i> , 1993 , 47, 4412-4421	2.6	17
32	Macroscopic quantum superposition states in nondegenerate parametric oscillation. <i>Physical Review A</i> , 1993 , 47, 552-555	2.6	51
31	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
30	Effect of bistability and superpositions on quantum statistics in degenerate parametric oscillation. <i>Physical Review A</i> , 1992 , 46, 4131-4137	2.6	22
29	Macroscopic boson states exhibiting the Greenberger-Horne-Zeilinger contradiction with local realism. <i>Physical Review Letters</i> , 1992 , 69, 997-1001	7.4	30
28	Quantum-noise reduction in intracavity four-wave mixing. <i>Physical Review A</i> , 1990 , 42, 6767-6773	2.6	17
27	Correlations in nondegenerate parametric oscillation. II. Below threshold results. <i>Physical Review A</i> , 1990 , 41, 3930-3949	2.6	147
26	Optical Einstein-Podolsky-Rosen Correlations 1990 , 981-985		
25	Correlations in nondegenerate parametric oscillation: Squeezing in the presence of phase diffusion. <i>Physical Review A</i> , 1989 , 40, 4493-4506	2.6	99
24	Demonstration of the Einstein-Podolsky-Rosen paradox using nondegenerate parametric amplification. <i>Physical Review A</i> , 1989 , 40, 913-923	2.6	595

23	Einstein-Podolsky-Rosen Correlations in Nondegenerate Parametric Amplification. <i>Springer Proceedings in Physics</i> , 1989 , 111-121	0.2	
22	Quantum correlations of phase in nondegenerate parametric oscillation. <i>Physical Review Letters</i> , 1988 , 60, 2731-2733	7.4	384
21	Quantum theory of optical bistability without adiabatic elimination. <i>Physical Review A</i> , 1988 , 37, 4792-4818	7.4	65
20	Absorption spectroscopy beyond the shot-noise limit. <i>Physical Review Letters</i> , 1988 , 60, 1940-1942	7.4	35
19	Laser bandwidth effects on squeezing in intracavity parametric oscillation. <i>Physical Review A</i> , 1988 , 37, 1806-1808	2.6	18
18	Quantum analysis of intensity fluctuations in the nondegenerate parametric oscillator. <i>Physical Review A</i> , 1988 , 38, 788-799	2.6	67
17	Squeezing of quantum solitons. <i>Physical Review Letters</i> , 1987 , 58, 1841-1844	7.4	201
16	Squeezed-light generation by four-wave mixing near an atomic resonance. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1987 , 4, 1453	1.7	89
15	Squeezing in nondegenerate four-wave mixing. <i>Physical Review A</i> , 1986 , 33, 4465-4468	2.6	29
14	Quantum theory of nondegenerate four-wave mixing. <i>Physical Review A</i> , 1986 , 34, 4929-4955	2.6	103
13	Violations of classical inequalities in quantum optics. <i>Physical Review A</i> , 1986 , 34, 1260-1276	2.6	196
12	Quantum nondemolition detection of optical quadrature amplitudes. <i>Physical Review Letters</i> , 1986 , 57, 2473-2476	7.4	198
11	Theory of Squeezed Light Generation. <i>Springer Proceedings in Physics</i> , 1986 , 31-45	0.2	4
10	Squeezing via optical bistability. <i>Physical Review A</i> , 1985 , 32, 396-401	2.6	57
9	Squeezing of quantum fluctuations via atomic coherence effects. <i>Physical Review Letters</i> , 1985 , 55, 1288-1290	7.4	40
8	Generation of squeezed states via degenerate four-wave mixing. <i>Physical Review A</i> , 1985 , 31, 1622-1635	2.6	180
7	Generation and detection of squeezed states of light by nondegenerate four-wave mixing in an optical fiber. <i>Physical Review A</i> , 1985 , 32, 1550-1562	2.6	142
6	Squeezing in four-wave mixing in harmonic-oscillator model. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1985 , 2, 1682	1.7	12

5	Phase-Sensitive Quantum Spectroscopy. <i>Springer Series in Optical Sciences</i> , 1985 , 254-257	0.5	
4	Violation of Bell's Inequalities in Quantum Optics. <i>Physical Review Letters</i> , 1984 , 53, 955-957	7.4	20
3	Quantum statistics of degenerate four wave mixing. <i>Optics Communications</i> , 1984 , 50, 406-410	2	41
2	Quantum fluctuations in the two-photon laser. <i>Physical Review A</i> , 1983 , 28, 332-343	2.6	76
1	Unified approach to multiphoton lasers and multiphoton bistability. <i>Physical Review A</i> , 1981 , 24, 2029-2048	2.8	52