

# Peter D. Drummond

## List of Publications by Year in descending order

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288  
papers

15,090  
citations

18887

64  
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25230

113  
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290  
docs citations

290  
times ranked

6270  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulating complex networks in phase space: Gaussian boson sampling. <i>Physical Review A</i> , 2022, 105, .	1.0	14
2	Time evolution with symmetric stochastic action. <i>Physical Review Research</i> , 2021, 3, .	1.3	3
3	Fate of the False Vacuum: Finite Temperature, Entropy, and Topological Phase in Quantum Simulations of the Early Universe. <i>PRX Quantum</i> , 2021, 2, .	3.5	19
4	Objective Quantum Fields, Retrocausality and Ontology. <i>Entropy</i> , 2021, 23, 749.	1.1	5
5	Interacting-fermion dynamics in Majorana phase space. <i>Physical Review A</i> , 2021, 104, .	1.0	1
6	Retrocausal model of reality for quantum fields. <i>Physical Review Research</i> , 2020, 2, .	1.3	12
7	Initial states for quantum field simulations in phase space. <i>Physical Review Research</i> , 2020, 2, .	1.3	6
8	Entropy, purity, and fidelity in Majorana phase space. <i>Physical Review A</i> , 2019, 100, .	1.0	5
9	Discrete time symmetry breaking in quantum circuits: exact solutions and tunneling. <i>New Journal of Physics</i> , 2019, 21, 093035.	1.2	11
10	Schrödinger cat states and steady states in subharmonic generation with Kerr nonlinearities. <i>Physical Review A</i> , 2019, 100, .	1.0	15
11	Nonlocal Pair Correlations in a Higher-Order Bose Gas Soliton. <i>Physical Review Letters</i> , 2019, 122, 203604.	2.9	12
12	Quantum fidelity measures for mixed states. <i>Reports on Progress in Physics</i> , 2019, 82, 076001.	8.1	85
13	Mesoscopic two-mode entangled and steerable states of 40,000 atoms in a Bose-Einstein-condensate interferometer. <i>Physical Review A</i> , 2019, 100, .	1.0	11
14	Phase-space representations of thermal Bose-Einstein condensates. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 035302.	0.7	6
15	Robustness of quantum Fourier transform interferometry. <i>Optics Letters</i> , 2019, 44, 343.	1.7	9
16	Simulating and assessing boson sampling experiments with phase-space representations. <i>Physical Review A</i> , 2018, 97, .	1.0	13
17	Creation, storage, and retrieval of an optomechanical cat state. <i>Physical Review A</i> , 2018, 98, .	1.0	21
18	Phase space methods for Majorana fermions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 245302.	0.7	11

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19	Finite-temperature dynamics of shock waves in an ultracold Fermi gas. <i>Physical Review A</i> , 2018, 98, .	1.0	7
20	The universe on a table top: engineering quantum decay of a relativistic scalar field from a metastable vacuum. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 024003.	0.6	26
21	Algorithms for integration of stochastic differential equations using parallel optimized sampling in the Stratonovich calculus. <i>Computer Physics Communications</i> , 2017, 212, 25-38.	3.0	2
22	Truncated Wigner dynamics and conservation laws. <i>Physical Review A</i> , 2017, 96, .	1.0	24
23	Forward, backward, and weighted stochastic bridges. <i>Physical Review E</i> , 2017, 96, 042123.	0.8	5
24	Coherent functional expansions in quantum field theory. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 45LT01.	0.7	1
25	Pulsed Entanglement of Two Optomechanical Oscillators and Furry's Hypothesis. <i>Physical Review Letters</i> , 2017, 119, 023601.	2.9	38
26	Simulation of an optomechanical quantum memory in the nonlinear regime. <i>Physical Review A</i> , 2017, 96, .	1.0	12
27	Higher-order stochastic differential equations and the positive Wigner function. <i>Physical Review A</i> , 2017, 96, .	1.0	4
28	One-dimensional Bose gas dynamics: Breather relaxation. <i>Physical Review A</i> , 2017, 96, .	1.0	13
29	Scaling of boson sampling experiments. <i>Physical Review A</i> , 2016, 94, .	1.0	10
30	Parallel Optimized Sampling for Stochastic Equations. <i>SIAM Journal of Scientific Computing</i> , 2016, 38, A3857-A3890.	1.3	2
31	Coherent states in projected Hilbert spaces. <i>Physical Review A</i> , 2016, 94, .	1.0	5
32	xSPDE: Extensible software for stochastic equations. <i>SoftwareX</i> , 2016, 5, 12-15.	1.2	20
33	Critical fluctuations in an optical parametric oscillator: when light behaves like magnetism. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 871.	0.9	5
34	Quantum simulations in phase-space: from quantum optics to ultra-cold physics. <i>Physica Scripta</i> , 2016, 91, 073007.	1.2	18
35	Violations of multisetting quaternion and octonion Bell inequalities. <i>Physical Review A</i> , 2015, 92, .	1.0	1
36	Probabilistic Q-function distributions in fermionic phase-space. <i>New Journal of Physics</i> , 2015, 17, 032002.	1.2	10

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37	Fate of the false vacuum: Towards realization with ultra-cold atoms. Europhysics Letters, 2015, 110, 56001.	0.7	47
38	Einstein-Podolsky-Rosen quantum simulations in nonclassical phase-space. Journal of the Optical Society of America B: Optical Physics, 2015, 32, A64.	0.9	0
39	Simulating Bell violations without quantum computers. Physica Scripta, 2014, T160, 014009.	1.2	11
40	Probabilistic simulation of mesoscopic Schrödinger cat states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 946-949.	0.9	6
41	Scalable quantum simulation of pulsed entanglement and Einstein-Podolsky-Rosen steering in optomechanics. Physical Review A, 2014, 90, .	1.0	58
42	Fundamentals of higher order stochastic equations. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 335001.	0.7	6
43	Probabilistic quantum phase-space simulation of Bell violations and their dynamical evolution. Physical Review A, 2014, 90, .	1.0	16
44	Quantum probabilistic sampling of multipartite 60-qubit Bell-inequality violations. Physical Review A, 2014, 90, .	1.0	14
45	Resolution of unity for fermionic Gaussian operators. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 275203.	0.7	6
46	Quantum simulations of the early universe. Annalen Der Physik, 2013, 525, 866-876.	0.9	24
47	Measurement of $\langle s \rangle$ -wave scattering lengths in a two-component Bose-Einstein condensate. Physical Review A, 2013, 87, .	1.0	111
48	Functional Wigner representation of quantum dynamics of Bose-Einstein condensate. Journal of Mathematical Physics, 2013, 54, .	0.5	32
49	Quantum Dynamics on Extended Phase Space: The Positive-P Representation. Cold Atoms, 2013, , 229-240.	0.3	0
50	Entanglement, number fluctuations and optimized interferometric phase measurement. New Journal of Physics, 2012, 14, 093012.	1.2	23
51	Half-quantum vortex state in a spin-orbit-coupled Bose-Einstein condensate. Physical Review A, 2012, 85, .	1.0	143
52	Quantum noise in three-dimensional BEC interferometry. Europhysics Letters, 2012, 97, 50003.	0.7	30
53	Einstein-Podolsky-Rosen entanglement and steering in two-well Bose-Einstein-condensate ground states. Physical Review A, 2012, 86, .	1.0	67
54	Dynamical preparation of Einstein-Podolsky-Rosen entanglement in two-well Bose-Einstein condensates. Physical Review A, 2012, 86, .	1.0	29

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55	Manipulating Majorana fermions in one-dimensional spin-orbit-coupled atomic Fermi gases. Physical Review A, 2012, 86, .	1.0	17
56	Resonant cascaded down-conversion. Physical Review A, 2012, 85, .	1.0	2
57	Within-host demographic fluctuations and correlations in early retroviral infection. Journal of Theoretical Biology, 2012, 295, 86-99.	0.8	6
58	Quantum dynamics in ultracold atomic physics. Frontiers of Physics, 2012, 7, 16-30.	2.4	13
59	Entanglement and nonlocality in multi-particle systems. Frontiers of Physics, 2012, 7, 72-85.	2.4	24
60	Long-lived periodic revivals of coherence in an interacting Bose-Einstein condensate. Physical Review A, 2011, 84, .	1.0	56
61	Entanglement, EPR steering, and Bell-nonlocality criteria for multipartite higher-spin systems. Physical Review A, 2011, 83, .	1.0	48
62	Einstein-Podolsky-Rosen Entanglement Strategies in Two-Well Bose-Einstein Condensates. Physical Review Letters, 2011, 106, 120405.	2.9	73
63	Universal structure of a strongly interacting Fermi gas. Journal of Physics: Conference Series, 2011, 264, 012013.	0.3	1
64	Linear entropy in quantum phase space. Physical Review A, 2011, 84, .	1.0	10
65	Universal contact of strongly interacting fermions at finite temperatures. New Journal of Physics, 2011, 13, 035007.	1.2	59
66	Confinement-induced resonances in anharmonic waveguides. Physical Review A, 2011, 84, .	1.0	36
67	Planar quantum squeezing and atom interferometry. Physical Review A, 2011, 84, .	1.0	56
68	High-temperature thermodynamics of strongly interacting $s$ -wave and $p$ -wave Fermi gases in a harmonic trap. Physical Review A, 2011, 83, .	1.0	19
69	Comparison between theory and experiment for universal thermodynamics of a homogeneous, strongly correlated Fermi gas. Physical Review A, 2011, 83, .	1.0	9
70	Planar quantum squeezing and atom interferometry. , 2011, , .		0
71	Static structure factor of a strongly correlated Fermi gas at large momenta. Europhysics Letters, 2010, 91, 20005.	0.7	30
72	First-principles many-body theory for ultra-cold atoms. , 2010, , .		0

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73	Three attractively interacting fermions in a harmonic trap: Exact solution, ferromagnetism, and high-temperature thermodynamics. <i>Physical Review A</i> , 2010, 82, .	1.0	82
74	A retrodictive stochastic simulation algorithm. <i>Journal of Computational Physics</i> , 2010, 229, 3777-3791.	1.9	0
75	Universal Behavior of Pair Correlations in a Strongly Interacting Fermi Gas. <i>Physical Review Letters</i> , 2010, 105, 070402.	2.9	158
76	Confinement-induced resonance in quasi-one-dimensional systems under transversely anisotropic confinement. <i>Physical Review A</i> , 2010, 82, .	1.0	32
77	Mean-field study of itinerant ferromagnetism in trapped ultracold Fermi gases: Beyond the local-density approximation. <i>Physical Review A</i> , 2010, 82, .	1.0	11
78	Dynamic response of strongly correlated Fermi gases in the quantum virial expansion. <i>Physical Review A</i> , 2010, 81, .	1.0	19
79	Pseudogap Pairing in Ultracold Fermi Atoms. <i>Physical Review Letters</i> , 2010, 104, 240407.	2.9	74
80	Exact few-body results for strongly correlated quantum gases in two dimensions. <i>Physical Review B</i> , 2010, 82, .	1.1	68
81	Universal thermodynamics of a strongly interacting Fermi gas: theory versus experiment. <i>New Journal of Physics</i> , 2010, 12, 063038.	1.2	57
82	Extinction Times in Autocatalytic Systems. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10481-10491.	1.1	21
83	Bell inequalities for continuous-variable measurements. <i>Physical Review A</i> , 2010, 81, .	1.0	22
84	Testing for Multipartite Quantum Nonlocality Using Functional Bell Inequalities. <i>Physical Review Letters</i> , 2009, 103, 180402.	2.9	27
85	Virial Expansion for a Strongly Correlated Fermi Gas. <i>Physical Review Letters</i> , 2009, 102, 160401.	2.9	144
86	Theory of strongly interacting Fermi gases. <i>Journal of Modern Optics</i> , 2009, 56, 2076-2081.	0.6	2
87	<i>Colloquium</i> : The Einstein-Podolsky-Rosen paradox: From concepts to applications. <i>Reviews of Modern Physics</i> , 2009, 81, 1727-1751.	16.4	518
88	Digital quantum memories with symmetric pulses. <i>Optics Express</i> , 2009, 17, 9662.	1.7	6
89	Spin entanglement, decoherence and Bohm's EPR paradox. <i>Optics Express</i> , 2009, 17, 18693.	1.7	33
90	Dynamical oscillator-cavity model for quantum memories. <i>Physical Review A</i> , 2009, 79, .	1.0	32

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91	Nonlocal pair correlations in the one-dimensional Bose gas at finite temperature. Physical Review A, 2009, 79, .	1.0	58
92	Experimental evidence for Raman-induced limits to efficient squeezing in optical fibers. Optics Letters, 2008, 33, 116.	1.7	64
93	Qubit phase space: $SU(n)$ representations. Physical Review A, 2008, 78, .	1.0	20
94	Comparative study of strong-coupling theories of a trapped Fermi gas at unitarity. Physical Review A, 2008, 77, .	1.0	50
95	Simulations and experiments on polarization squeezing in optical fiber. Physical Review A, 2008, 78, .	1.0	57
96	Finite-temperature phase diagram of a spin-polarized ultracold Fermi gas in a highly elongated harmonic trap. Physical Review A, 2008, 78, .	1.0	61
97	Hybrid phase-space simulation method for interacting Bose fields. Physical Review A, 2008, 78, .	1.0	19
98	Multicomponent strongly attractive Fermi gas: A color superconductor in a one-dimensional harmonic trap. Physical Review A, 2008, 77, .	1.0	30
99	Center-of-mass measurements and coherence properties of quantum gases. , 2007, , .		0
100	Quantum dynamics of polarisation squeezing in optical fibres. , 2007, , .		0
101	First-principles quantum dynamics with 150,000 atoms: Correlations in a BEC collision. , 2007, , .		0
102	Universal thermodynamics of strongly interacting Fermi gases. , 2007, , .		0
103	Quantum effects in non linear optics. , 2007, , .		0
104	Visualization of Vortex Bound States in Polarized Fermi Gases at Unitarity. Physical Review Letters, 2007, 98, 060406.	2.9	22
105	Quantum limits to center-of-mass measurements. Physical Review A, 2007, 75, .	1.0	17
106	Correlations in a BEC Collision: First-Principles Quantum Dynamics with 150,000 Atoms. Physical Review Letters, 2007, 98, 120402.	2.9	100
107	Phase Diagram of a Strongly Interacting Polarized Fermi Gas in One Dimension. Physical Review Letters, 2007, 98, 070403.	2.9	205
108	Fulde-Ferrell-Larkin-Ovchinnikov states in one-dimensional spin-polarized ultracold atomic Fermi gases. Physical Review A, 2007, 76, .	1.0	105

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109	Quantum dynamics in phase space: from coherent states to the Gaussian representation. <i>Journal of Modern Optics</i> , 2007, 54, 2499-2512.	0.6	6
110	Bell Inequalities for Continuous-Variable Correlations. <i>Physical Review Letters</i> , 2007, 99, 210405.	2.9	78
111	Excitation spectrum of bosons in a finite one-dimensional circular waveguide via the Bethe ansatz. <i>Physical Review A</i> , 2007, 76, .	1.0	30
112	Mean-field thermodynamics of a spin-polarized spherically trapped Fermi gas at unitarity. <i>Physical Review A</i> , 2007, 75, .	1.0	50
113	Quantum many-body simulations using Gaussian phase-space representations. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2007, 103, 7-16.	0.2	3
114	Universal thermodynamics of strongly interacting Fermi gases. <i>Nature Physics</i> , 2007, 3, 469-472.	6.5	125
115	Monte Carlo techniques for real-time quantum dynamics. <i>Journal of Computational Physics</i> , 2007, 220, 549-567.	1.9	11
116	Dual-symmetric Lagrangians in quantum electrodynamics: I. Conservation laws and multi-polar coupling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S573-S598.	0.6	14
117	Equation of state of a superfluid Fermi gas in the BCS-BEC crossover. <i>Europhysics Letters</i> , 2006, 74, 574-580.	0.7	165
118	First-principles quantum dynamics in interacting Bose gases II: stochastic gauges. <i>Journal of Physics A</i> , 2006, 39, 2723-2755.	1.6	28
119	Gaussian operator bases for correlated fermions. <i>Journal of Physics A</i> , 2006, 39, 269-297.	1.6	39
120	Corney and Drummond Reply:. <i>Physical Review Letters</i> , 2006, 96, .	2.9	2
121	Gaussian phase-space representations for fermions. <i>Physical Review B</i> , 2006, 73, .	1.1	56
122	Temperature of a trapped unitary Fermi gas at finite entropy. <i>Physical Review A</i> , 2006, 73, .	1.0	53
123	First-principles quantum dynamics in interacting Bose gases: I. The positive P representation. <i>Journal of Physics A</i> , 2006, 39, 1163-1181.	1.6	47
124	Many-Body Quantum Dynamics of Polarization Squeezing in Optical Fibers. <i>Physical Review Letters</i> , 2006, 97, 023606.	2.9	65
125	Quantum simulations of a fiber squeezing experiment. , 2006, , .		0
126	CORRELATIONS AND COLLECTIVE MODES IN FERMIONS ON LATTICES. , 2005, , .		0



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127	Quantum phase-space simulations of fermions and bosons. Computer Physics Communications, 2005, 169, 412-415.	3.0	4
128	Quantum criticality. Nature, 2005, 433, 226-229.	13.7	463
129	Comment on "Stimulated Raman adiabatic passage from an atomic to a molecular Bose-Einstein condensate". Physical Review A, 2005, 71, .	1.0	24
130	Reply to "Comment on "Stimulated Raman adiabatic passage from an atomic to a molecular Bose-Einstein condensate" ". Physical Review A, 2005, 71, .	1.0	18
131	Entanglement and the Einstein-Podolsky-Rosen paradox with coupled intracavity optical down-converters. Physical Review A, 2005, 71, .	1.0	22
132	Einstein-Podolsky-Rosen Correlations via Dissociation of a Molecular Bose-Einstein Condensate. Physical Review Letters, 2005, 95, 150405.	2.9	88
133	Time-Reversal Test for Stochastic Quantum Dynamics. Physical Review Letters, 2005, 94, 130401.	2.9	18
134	Universality of Quantum Critical Dynamics in a Planar Optical Parametric Oscillator. Physical Review Letters, 2005, 95, 083601.	2.9	14
135	Finite-temperature correlations and density profiles of an inhomogeneous interacting one-dimensional Bose gas. Physical Review A, 2005, 71, .	1.0	105
136	Ultra-cold hubbard fermions in optical lattices. , 2005, , .		0
137	Signature of Mott-Insulator Transition with Ultracold Fermions in a One-Dimensional Optical Lattice. Physical Review Letters, 2005, 94, 136406.	2.9	51
138	Ultra-cold fermions in optical lattices. Journal of Modern Optics, 2005, 52, 2261-2268.	0.6	2
139	Canonical Bose Gas Simulations with Stochastic Gauges. Physical Review Letters, 2004, 92, 040405.	2.9	47
140	Coherent molecular bound states of bosons and fermions near a Feshbach resonance. Physical Review A, 2004, 70, .	1.0	31
141	Three-dimensional solitons in coupled atomic-molecular Bose-Einstein condensates. Physical Review A, 2004, 70, .	1.0	10
142	Gauge Poisson representations for birth/death master equations. European Physical Journal B, 2004, 38, 617-634.	0.6	7
143	Optical Solitons. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S159-S159.	1.4	1
144	Gaussian Quantum Monte Carlo Methods for Fermions and Bosons. Physical Review Letters, 2004, 93, 260401.	2.9	94

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145	Critical fluctuations and entanglement in the nondegenerate parametric oscillator. <i>Physical Review A</i> , 2004, 70, .	1.0	66
146	STOCHASTIC GAUGE: A NEW TECHNIQUE FOR QUANTUM SIMULATIONS. , 2004, , .		0
147	Gaussian quantum operator representation for bosons. <i>Physical Review A</i> , 2003, 68, .	1.0	45
148	Pair Correlations in a Finite-Temperature 1D Bose Gas. <i>Physical Review Letters</i> , 2003, 91, 040403.	2.9	207
149	Quantum dynamics with stochastic gauge simulations. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2003, 5, S281-S289.	1.4	22
150	Critical quantum fluctuations in the degenerate parametric oscillator. <i>Physical Review A</i> , 2002, 65, .	1.0	40
151	Stimulated Raman adiabatic passage from an atomic to a molecular Bose-Einstein condensate. <i>Physical Review A</i> , 2002, 65, .	1.0	121
152	It's all tangled up. <i>Physics World</i> , 2002, 15, 21-21.	0.0	0
153	Limits to squeezing in the degenerate optical parametric oscillator. <i>Physical Review A</i> , 2002, 65, .	1.0	41
154	Gauge Representations for quantum-dynamical problems: Removal of boundary terms. <i>Physical Review A</i> , 2002, 66, .	1.0	85
155	Quantum noise in optical fibers I Stochastic equations. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 139.	0.9	134
156	Quantum noise in optical fibers II Raman jitter in soliton communications. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 153.	0.9	53
157	Observation of bound states of solitons in a passively mode-locked fiber laser. <i>Physical Review A</i> , 2001, 64, .	1.0	292
158	Parametric signal regeneration. <i>Optics Communications</i> , 2001, 198, 439-445.	1.0	1
159	Stochastic gauges in quantum dynamics for many-body simulations. <i>Computer Physics Communications</i> , 2001, 142, 442-445.	3.0	24
160	xmds: eXtensible multi-dimensional simulator. <i>Computer Physics Communications</i> , 2001, 142, 219-223.	3.0	21
161	Exact quantum phase model for mesoscopic Josephson junctions. <i>Physical Review A</i> , 2001, 64, .	1.0	81
162	Noise-free scattering of the quantized electromagnetic field from a dispersive linear dielectric. <i>Physical Review A</i> , 2001, 64, .	1.0	4

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163	Light guiding light: Nonlinear refraction in rubidium vapor. <i>Physical Review A</i> , 2001, 63, .	1.0	26
164	Theory of a mode-locked atom laser with toroidal geometry. <i>Physical Review A</i> , 2001, 63, .	1.0	17
165	Nonlinear Quantum Fluctuations in the Parametric Amplifier. , 2001, , 283-302.		0
166	Elegance: Keeping it Simple and Testable. <i>Physics Today</i> , 2000, 53, 12-13.	0.3	1
167	Digital response with femtosecond resolution in an optical AND gate. <i>Optics Communications</i> , 2000, 184, 237-243.	1.0	4
168	Vortices and Solitons in Bose-Condensates. <i>Modern Physics Letters B</i> , 2000, 14, 189-230.	1.0	3
169	Superchemistry: Dynamics of Coupled Atomic and Molecular Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2000, 84, 5029-5033.	2.9	303
170	Asymptotic solutions to the Gross-Pitaevskii gain equation: Growth of a Bose-Einstein condensate. <i>Physical Review A</i> , 2000, 63, .	1.0	48
171	Multidimensional quantum solitons with nondegenerate parametric interactions: Photonic and Bose-Einstein condensate environments. <i>Physical Review A</i> , 2000, 61, .	1.0	35
172	Disagreement between correlations of quantum mechanics and stochastic electrodynamics in the damped parametric oscillator. <i>Physical Review A</i> , 2000, 62, .	1.0	9
173	Quantum theory of dispersive electromagnetic modes. <i>Physical Review A</i> , 1999, 59, 691-707.	1.0	45
174	Theory of modulational instability in Bragg gratings with quadratic nonlinearity. <i>Physical Review E</i> , 1999, 59, 6064-6078.	0.8	29
175	Quantum dynamics of evaporatively cooled Bose-Einstein condensates. <i>Physical Review A</i> , 1999, 60, R2661-R2664.	1.0	87
176	Dual symmetric Lagrangians and conservation laws. <i>Physical Review A</i> , 1999, 60, R3331-R3334.	1.0	25
177	Observation of modulation instability in a fiber soliton ring laser. <i>Optics Communications</i> , 1999, 167, 125-128.	1.0	10
178	Stochastic diagrams for critical point spectra. <i>European Physical Journal B</i> , 1999, 8, 251-267.	0.6	22
179	Novel solitons in parametric amplifiers and atom lasers. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 1999, 1, 387-395.	1.4	21
180	Dynamical quantum noise in trapped Bose-Einstein condensates. <i>Physical Review A</i> , 1998, 58, 4824-4835.	1.0	359

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181	Coherent Molecular Solitons in Bose-Einstein Condensates. <i>Physical Review Letters</i> , 1998, 81, 3055-3058.	2.9	199
182	Multidimensional parametric quantum solitons. <i>Physical Review A</i> , 1998, 58, R2676-R2679.	1.0	22
183	Three-dimensional quantum solitons with parametric coupling. <i>Physical Review A</i> , 1998, 58, 2488-2499.	1.0	25
184	Theory of multidimensional parametric band-gap solitons. <i>Physical Review E</i> , 1998, 58, 5025-5046.	0.8	32
185	Ideal Soliton Environment Using Parametric Band Gaps. <i>Physical Review Letters</i> , 1997, 78, 4311-4315.	2.9	97
186	Macroscopic test of quantum mechanics versus stochastic electrodynamics. <i>Physical Review A</i> , 1997, 55, 912-914.	1.0	9
187	Pulsed quadrature-phase squeezing of solitary waves in $\chi^{(2)}$ parametric waveguides. <i>Physical Review A</i> , 1997, 56, 1508-1518.	1.0	20
188	Phase Waves in Mode-Locked Superfluorescent Lasers. <i>Physical Review Letters</i> , 1997, 78, 836-839.	2.9	10
189	Spatiotemporal solitons in multidimensional optical media with a quadratic nonlinearity. <i>Physical Review E</i> , 1997, 56, 4725-4735.	0.8	149
190	Nonclassical Excitation in Spectroscopy with Squeezed Light. <i>Physics Today</i> , 1997, 50, 34-38.	0.3	11
191	Positive P representation: Application and validity. <i>Physical Review A</i> , 1997, 55, 3014-3032.	1.0	123
192	Optical mesons. <i>Physical Review A</i> , 1997, 56, R1107-R1109.	1.0	31
193	Direct measurement of pulse distortion near the zero-dispersion wavelength in an optical fiber by frequency-resolved optical gating. <i>Optics Letters</i> , 1997, 22, 457.	1.7	35
194	Quantum noise limits to terabaud communications. <i>Optics Communications</i> , 1997, 140, 211-215.	1.0	19
195	Robust Algorithms for Solving Stochastic Partial Differential Equations. <i>Journal of Computational Physics</i> , 1997, 132, 312-326.	1.9	77
196	Modulational stability in dispersive optical systems with cascaded nonlinearity. <i>Optics Communications</i> , 1996, 123, 394-402.	1.0	25
197	Simultaneous solitary-wave solutions in a nonlinear parametric waveguide. <i>Physical Review E</i> , 1996, 54, 896-911.	0.8	74
198	Quantum Theory of Fiber-Optics and Solitons. , 1996, , 323-332.		3

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199	Modelling the Atomic Superfluorescent Mode-Locked Laser. , 1996, , 705-706.		0
200	Phase Sensitive Photo-Detection with Dynamical Renormalization. , 1996, , 723-724.		0
201	Ultrashort pulsed squeezing by optical parametric amplification. Physical Review A, 1995, 52, 4202-4213.	1.0	42
202	Quadrature squeezing in the nondegenerate parametric amplifier. Physical Review A, 1995, 51, 864-867.	1.0	11
203	Critical fluctuations in the quantum parametric oscillator. Physical Review A, 1995, 52, 783-790.	1.0	27
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