Iacopo Carusotto

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.

230 papers	11,854 citations	50 h-index	104 g-index
273 ext. papers	14,426 ext. citations	4.7 avg, IF	6.83 L-index

#	Paper	IF	Citations
230	Superfluidity of Light and Its Breakdown in Optical Mesh Lattices. *Physical Review Letters*, **2021**, 127, 163901	7.4	0
229	Light-Matter Interactions in Synthetic Magnetic Fields: Landau-Photon Polaritons. *Physical Review Letters*, **2021**, 126, 103603	7.4	5
228	Spatial and spectral mode-selection effects in topological lasers with frequency-dependent gain. *APL Photonics*, **2021**, 6, 050803	5.2	1
227	Nonlinearity-Induced Reciprocity Breaking in a Single Nonmagnetic Taiji Resonator. *Physical Review Applied*, **2021**, 15,	4.3	1
226	Excitons bound by photon exchange. *Nature Physics*, **2021**, 17, 31-35	16.2	10
225	Position- and momentum-space two-body correlations in a weakly interacting trapped condensate. *Physical Review A*, **2021**, 103,	2.6	1
224	On the role of interactions in trans-sonically flowing atomic condensates (a). *Europhysics Letters*, **2021**, 133, 20002	1.6	1
223	Long time universality of black-hole lasers. *New Journal of Physics*, **2021**, 23, 023040	2.9	0
222	Influence of the bus waveguide on the linear and nonlinear response of a taiji microresonator. *Optics Express*, **2021**, 29, 29615-29630	3.3	0
221	Non-equilibrium Berezinskii-Kosterlitz-Thouless transition in driven-dissipative condensates (a). *Europhysics Letters*, **2021**, 133, 17002	1.6	4
220	Optical dressing of the electronic response of two-dimensional semiconductors in quantum and classical descriptions of cavity electrodynamics. *Physical Review B*, **2021**, 104,	3.3	2
219	Perspectives in superfluidity in resonantly driven polariton fluids. *Physical Review B*, **2020**, 101,	3.3	3
218	Photonic materials in circuit quantum electrodynamics. *Nature Physics*, **2020**, 16, 268-279	16.2	46
217	Charge and statistics of lattice quasiholes from density measurements: A tree tensor network study. *Physical Review Research*, **2020**, 2,	3.9	7
216	Galilean boosts and superfluidity of resonantly driven polariton fluids in the presence of an incoherent reservoir. *Physical Review Research*, **2020**, 2,	3.9	1
215	Ergoregion instabilities in rotating two-dimensional Bose-Einstein condensates: Perspectives on the stability of quantized vortices. *Physical Review Research*, **2020**, 2,	3.9	4
214	Quantum fluctuations beyond the Gutzwiller approximation in the Bose-Hubbard model. *Physical Review Research*, **2020**, 2,	3.9	2

213	Interferences between Bogoliubov excitations in superfluids of light. *Physical Review Research*, **2020**, 2,	3.9	7
212	Anyonic Molecules in Atomic Fractional Quantum Hall Liquids: A Quantitative Probe of Fractional Charge and Anyonic Statistics. *Physical Review X*, **2020**, 10,	9.1	2
211	Theory of the Coherence of Topological Lasers. *Physical Review X*, **2020**, 10,	9.1	7
210	Unidirectional reflection from an integrated Gaiji microresonator. *Photonics Research*, **2020**, 8, 1333	6	8
209	Non-linear edge dynamics of an integer quantum Hall fluid. *Europhysics Letters*, **2020**, 132, 10002	1.6	0
208	Hanbury Brown and Twiss Bunching of Phonons and of the Quantum Depletion in an Interacting Bose Gas. *Physical Review Letters*, **2020**, 125, 165301	7.4	6
207	Direct observation of photonic Landau levels and helical edge states in strained honeycomb lattices. *Light: Science and Applications*, **2020**, 9, 144	16.7	12
206	Kibble-Zurek Mechanism in Driven Dissipative Systems Crossing a Nonequilibrium Phase Transition. *Physical Review Letters*, **2020**, 125, 095301	7.4	10
205	Generalized Gross-Pitaevskii model for intersubband polariton lasing. *Physical Review B*, **2019**, 100,	3.3	1
204	Dispersion relation of the collective excitations in a resonantly driven polariton fluid. *Nature Communications*, **2019**, 10, 3869	17.4	17
203	Mechanical backreaction effect of the dynamical Casimir emission. *Physical Review A*, **2019**, 99,	2.6	7
202	Topological photonics. *Reviews of Modern Physics*, **2019**, 91,	40.5	1070
201	Strong coupling of ionizing transitions. *Optica*, **2019**, 6, 354	8.6	13
200	Quantum well infrared photo-detectors operating in the strong light-matter coupling regime. *Applied Physics Letters*, **2019**, 114, 131104	3.4	13
199	Hermitian and Non-Hermitian Mode Coupling in a Microdisk Resonator Due to Stochastic Surface Roughness Scattering. *IEEE Photonics Journal*, **2019**, 11, 1-14	1.8	3
198	Observation of Photonic Landau Levels in Strained Honeycomb Lattices **2019**,		1
197	Theory of chiral edge state lasing in a two-dimensional topological system. *Physical Review Research*, **2019**, 1,	3.9	15
196	Quantum fluctuations of the friction force induced by the dynamical Casimir emission. *Europhysics Letters*, **2019**, 128, 24002	1.6	4

195	Fusion Channels of Non-Abelian Anyons from Angular-Momentum and Density-Profile Measurements. *Physical Review Letters*, **2019**, 123, 266801	7.4	8
194	Pseudothermalization in driven-dissipative non-Markovian open quantum systems. *Physical Review A*, **2018**, 97,	2.6	7
193	Particle-Hole Character of the Higgs and Goldstone Modes in Strongly Interacting Lattice Bosons. *Physical Review Letters*, **2018**, 120, 073201	7.4	4
192	Topological two-body bound states in the interacting Haldane model. *Physical Review A*, **2018**, 97,	2.6	19
191	Nonlinear Polariton Localization in Strongly Coupled Driven-Dissipative Microcavities. *ACS Photonics*, **2018**, 5, 95-99	6.3	4
190	Ring-shaped fractional quantum Hall liquids with hard-wall potentials. *Physical Review A*, **2018**, 98,	2.6	4
189	Dynamical Critical Exponents in Driven-Dissipative Quantum Systems. *Physical Review Letters*, **2018**, 121, 095302	7.4	30
188	Time-of-Flight Measurements as a Possible Method to Observe Anyonic Statistics. *Physical Review Letters*, **2018**, 120, 230403	7.4	16
187	Engineering Gaussian states of light from a planar microcavity. *SciPost Physics*, **2018**, 5,	6.1	1
186	Analogue simulation of two-body quantum dynamics with classical setup. *Journal of Physics: Conference Series*, **2018**, 1092, 012045	0.3	0
185	Quantum simulation of zero-temperature quantum phases and incompressible states of light via non-Markovian reservoir engineering techniques. *Comptes Rendus Physique*, **2018**, 19, 433-450	1.4	3
184	Prethermalization to thermalization crossover in a dilute Bose gas following an interaction ramp. *Physical Review A*, **2018**, 98,	2.6	12
183	Simulation of two-boson bound states using arrays of driven-dissipative coupled linear optical resonators. *Physical Review A*, **2018**, 98,	2.6	11
182	Unstable and stable regimes of polariton condensation. *Optica*, **2018**, 5, 1163	8.6	21
181	Resonant intersubband polariton-LO phonon scattering in an optically pumped polaritonic device. *Applied Physics Letters*, **2018**, 112, 191106	3.4	10
180	Casimir Forces and Quantum Friction from Ginzburg Radiation in Atomic Bose-Einstein Condensates. *Physical Review Letters*, **2017**, 118, 045301	7.4	23
179	Orbital Edge States in a Photonic Honeycomb Lattice. *Physical Review Letters*, **2017**, 118, 107403	7.4	53
178	Experimental measurement of the Berry curvature from anomalous transport. *Nature Physics*, **2017**, 13, 545-550	16.2	75

177	Spin–orbit coupling in a hexagonal ring of pendula. *New Journal of Physics*, **2017**, 19, 055001	2.9	10
176	Pump-and-probe optical transmission phase shift as a quantitative probe of the Bogoliubov dispersion relation in a nonlinear channel waveguide. *European Physical Journal D*, **2017**, 71, 1	1.3	7
175	Synthetic Dimensions with Magnetic Fields and Local Interactions in Photonic Lattices. *Physical Review Letters*, **2017**, 118, 013601	7.4	28
174	Two-body bound and edge states in the extended SSH Bose-Hubbard model. *European Physical Journal: Special Topics*, **2017**, 226, 2751-2762	2.3	13
173	Hard-wall confinement of a fractional quantum Hall liquid. *Physical Review A*, **2017**, 96,	2.6	8
172	Stabilizing strongly correlated photon fluids with non-Markovian reservoirs. *Physical Review A*, **2017**, 96,	2.6	34
171	Phase diagram of incoherently driven strongly correlated photonic lattices. *Physical Review A*, **2017**, 96,	2.6	46
170	Spontaneous Beliaev-Landau scattering out of equilibrium. *Physical Review A*, **2017**, 96,	2.6	7
169	Generation and spectroscopic signatures of a fractional quantum Hall liquid of photons in an incoherently pumped optical cavity. *Physical Review A*, **2017**, 96,	2.6	12
168	Klein tunneling in driven-dissipative photonic graphene. *Physical Review A*, **2017**, 96,	2.6	13
167	Black-hole lasing in coherently coupled two-component atomic condensates. *Physical Review A*, **2017**, 96,	2.6	4
166	Propagating edge states in strained honeycomb lattices. *Physical Review B*, **2017**, 95,	3.3	10
165	Immunity of intersubband polaritons to inhomogeneous broadening. *Physical Review B*, **2017**, 96,	3.3	12
164	Complete crossing of Fano resonances in an optical microcavity via nonlinear tuning. *Photonics Research*, **2017**, 5, 168	6	8
163	Strongly Correlated Photons in Nonlinear Nanophotonic Platforms. *Quantum Science and Technology*, **2017**, 123-151	1.2	
162	Foreword – Strong light–matter coupling in solid-state systems: A historical perspective. *Comptes Rendus Physique*, **2016**, 17, 805-807	1.4	1
161	Synthetic dimensions in integrated photonics: From optical isolation to four-dimensional quantum Hall physics. *Physical Review A*, **2016**, 93,	2.6	164
160	Floquet topological system based on frequency-modulated classical coupled harmonic oscillators. *Physical Review B*, **2016**, 93,	3.3	39

159	Quantum Hall effect in momentum space. *Physical Review B*, **2016**, 93,	3.3	6
158	Measurement of Chern numbers through center-of-mass responses. *Physical Review B*, **2016**, 93,	3.3	50
157	Momentum-space Landau levels in driven-dissipative cavity arrays. *Physical Review A*, **2016**, 93,	2.6	6
156	Phase-Controlled Bistability of a Dark Soliton Train in a Polariton Fluid. *Physical Review Letters*, **2016**, 117, 217401	7.4	31
155	Theoretical study of stimulated and spontaneous Hawking effects from an acoustic black hole in a hydrodynamically flowing fluid of light. *Physical Review B*, **2016**, 94,	3.3	6
154	Prethermalization in a quenched one-dimensional quantum fluid of light. *European Physical Journal D*, **2016**, 70, 1	1.3	10
153	Towards four-dimensional photonics **2016**,		1
152	Microring Resonators and Silicon Photonics. *MRS Advances*, **2016**, 1, 3281-3293	0.7	2
151	Numerical study of a recent black-hole lasing experiment. *Europhysics Letters*, **2016**, 114, 60011	1.6	21
150	Two-body physics in the Su-Schrieffer-Heeger model. *Physical Review A*, **2016**, 94,	2.6	45
149	Thermalization and Bose-Einstein condensation of quantum light in bulk nonlinear media. *Europhysics Letters*, **2016**, 115, 24002	1.6	14
148	Towards strongly correlated photons in arrays of dissipative nonlinear cavities under a frequency-dependent incoherent pumping. *Comptes Rendus Physique*, **2016**, 17, 836-860	1.4	26
147	Wavelength Dependence of a Vertically Coupled Resonator-Waveguide System. *Journal of Lightwave Technology*, **2016**, 34, 5385-5390	4	5
146	Time-dependent study of a black-hole laser in a flowing atomic condensate. *Physical Review A*, **2016**, 94,	2.6	12
145	Role of geometry in the superfluid flow of nonlocal photon fluids. *Physical Review A*, **2016**, 94,	2.6	31
144	Artificial magnetic fields in momentum space in spin-orbit-coupled systems. *Physical Review A*, **2015**, 91,	2.6	3
143	Photon transport in a dissipative chain of nonlinear cavities. *Physical Review A*, **2015**, 91,	2.6	40
142	Spin-Orbit Coupling for Photons and Polaritons in Microstructures. *Physical Review X*, **2015**, 5,	9.1	96

141	Experimental characterization of nonlocal photon fluids. *Optica*, **2015**, 2, 484	8.6	48
140	Edge states in polariton honeycomb lattices. *2D Materials*, **2015**, 2, 034012	5.9	53
139	How to directly observe Landau levels in driven-dissipative strained honeycomb lattices. *2D Materials*, **2015**, 2, 034015	5.9	13
138	Optomechanical signature of a frictionless flow of superfluid light. *Physical Review A*, **2015**, 91,	2.6	15
137	Momentum-space Harper-Hofstadter model. *Physical Review A*, **2015**, 92,	2.6	10
136	Propagation of a quantum fluid of light in a cavityless nonlinear optical medium: General theory and response to quantum quenches. *Physical Review A*, **2015**, 92,	2.6	37
135	Multicomponent polariton superfluidity in the optical parametric oscillator regime. *Physical Review B*, **2015**, 92,	3.3	8
134	Comment on "Linear Wave Dynamics Explains Observations Attributed to Dark Solitons in a Polariton Quantum Fluid". *Physical Review Letters*, **2015**, 115, 089401	7.4	8
133	Four-Dimensional Quantum Hall Effect with Ultracold Atoms. *Physical Review Letters*, **2015**, 115, 195303	7.4	122
132	Nonequilibrium Phase Transition in a Two-Dimensional Driven Open Quantum System. *Physical Review X*, **2015**, 5,	9.1	42
131	Acoustic black hole in a stationary hydrodynamic flow of microcavity polaritons. *Physical Review Letters*, **2015**, 114, 036402	7.4	79
130	Anomalous and quantum Hall effects in lossy photonic lattices. *Physical Review Letters*, **2014**, 112, 133902	7.4	64
129	Direct observation of Dirac cones and a flatband in a honeycomb lattice for polaritons. *Physical Review Letters*, **2014**, 112, 116402	7.4	271
128	Spontaneous quantum emission from analog white holes in a nonlinear optical medium. *Physical Review A*, **2014**, 89,	2.6	27
127	Quantum mechanics with a momentum-space artificial magnetic field. *Physical Review Letters*, **2014** , 113, 190403	7.4	28
126	Quantum Langevin model for nonequilibrium condensation. *Physical Review A*, **2014**, 90,	2.6	39
125	Probing few-particle Laughlin states of photons via correlation measurements. *Physical Review A*, **2014**, 89,	2.6	12
124	Superfluid light in bulk nonlinear media. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2014**, 470, 20140320	2.4	33

123	Intermode reactive coupling induced by waveguide-resonator interaction. *Physical Review A*, **2014**, 90,	2.6	18
122	Entangled phonons in atomic Bose-Einstein condensates. *Physical Review A*, **2014**, 90,	2.6	26
121	Spectrum and entanglement of phonons in quantum fluids of light. *Physical Review A*, **2014**, 89,	2.6	31
120	Dynamical decoupling and dynamical isolation in temporally modulated coupled pendulums. *Europhysics Letters*, **2014**, 106, 24002	1.6	8
119	Focus on Bose condensation phenomena in atomic and solid state physics. *New Journal of Physics*, **2013**, 15, 035010	2.9	
118	Berry curvature effects in the Bloch oscillations of a quantum particle under a strong (synthetic) magnetic field. *Europhysics Letters*, **2013**, 103, 10001	1.6	11
117	Many-body braiding phases in a rotating strongly correlated photon gas. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2013**, 377, 2074-2078	2.3	21
116	Quantum vacuum emission in a nonlinear optical medium illuminated by a strong laser pulse. *Physical Review A*, **2013**, 87,	2.6	27
115	Quantum fluids of light. *Reviews of Modern Physics*, **2013**, 85, 299-366	40.5	1111
114	Oscillatory vertical coupling between a whispering-gallery resonator and a bus waveguide. *Physical Review Letters*, **2013**, 110, 163901	7.4	32
113	Number-Conserving Stochastic Approaches for Equilibrium and Time-Dependent Bose Gases. *Cold Atoms*, **2013**, 215-228		0
112	Non-equilibrium quasi-condensates in reduced dimensions. *Europhysics Letters*, **2013**, 102, 67007	1.6	42
111	The C erenkov Effect Revisited: From Swimming Ducks to Zero Modes in Gravitational Analogues. *Lecture Notes in Physics*, **2013**, 109-144	0.8	18
110	Understanding Hawking Radiation from Simple Models of Atomic Bose-Einstein Condensates. *Lecture Notes in Physics*, **2013**, 181-219	0.8	5
109	Fractional quantum Hall states of photons in an array of dissipative coupled cavities. *Physical Review Letters*, **2012**, 108, 206809	7.4	138
108	Kinematic study of the effect of dispersion in quantum vacuum emission from strong laser pulses. *European Physical Journal Plus*, **2012**, 127, 1	3.1	11
107	Analog Hawking radiation from an acoustic black hole in a flowing polariton superfluid. *Physical Review B*, **2012**, 86,	3.3	51
106	Anomalous ring-down effects and breakdown of the decay rate concept in optical cavities with negative group delay. *New Journal of Physics*, **2012**, 14, 043012	2.9	12

105	Algebraic geometry tools for the study of entanglement: an application to spin squeezed states. *Journal of Physics A: Mathematical and Theoretical*, **2012**, 45, 105304	2	9
104	Dynamic nuclear spin polarization in the resonant laser excitation of an InGaAs quantum dot. *Physical Review Letters*, **2012**, 108, 197403	7.4	51
103	Back-reaction effects of quantum vacuum in cavity quantum electrodynamics. *Physical Review A*, **2012**, 85,	2.6	35
102	Quantum fluctuations around black hole horizons in Bose-Einstein condensates. *Physical Review A*, **2012**, 85,	2.6	60
101	Artificial gauge field for photons in coupled cavity arrays. *Physical Review A*, **2011**, 84,	2.6	209
100	Polariton superfluids reveal quantum hydrodynamic solitons. *Science*, **2011**, 332, 1167-70	33.3	318
99	Origin of strong photon antibunching in weakly nonlinear photonic molecules. *Physical Review A*, **2011**, 83,	2.6	223
98	All-optical control of the quantum flow of a polariton condensate. *Nature Photonics*, **2011**, 5, 610-614	33.9	120
97	Dynamical Casimir Effect in optically modulated cavities. *Europhysics Letters*, **2011**, 96, 24006	1.6	32
96	Hydrodynamic nucleation of vortices and solitons in a resonantly excited polariton superfluid. *Physical Review B*, **2011**, 83,	3.3	72
95	Nonequilibrium and local detection of the normal fraction of a trapped two-dimensional Bose gas. *Physical Review A*, **2011**, 84,	2.6	5
94	Acoustic white holes in flowing atomic Bose–Einstein condensates. *New Journal of Physics*, **2011**, 13, 025007	2.9	39
93	Swimming in a sea of superfluid light. *Europhysics News*, **2010**, 41, 23-27	0.2	2
92	Near-field intensity correlations in parametric photoluminescence from a planar microcavity. *Physical Review B*, **2010**, 81,	3.3	4
91	Publisher's Note: Signatures of the superfluid-insulator phase transition in laser-driven dissipative nonlinear cavity arrays [Phys. Rev. A 81, 061801 (2010)]. *Physical Review A*, **2010**, 82,	2.6	2
90	Signatures of the superfluid-insulator phase transition in laser-driven dissipative nonlinear cavity arrays. *Physical Review A*, **2010**, 81,	2.6	106
89	Superfluidity and critical velocities in nonequilibrium Bose-Einstein condensates. *Physical Review Letters*, **2010**, 105, 020602	7.4	103
88	TESTING HAWKING PARTICLE CREATION BY BLACK HOLES THROUGH CORRELATION MEASUREMENTS. *International Journal of Modern Physics D*, **2010**, 19, 2371-2377	2.2	8

87	Feshbach blockade: Single-photon nonlinear optics using resonantly enhanced cavity polariton scattering from biexciton states. *Europhysics Letters*, **2010**, 90, 37001	1.6	36
86	Quantum fluid properties of polaritons in semiconductor microcavities. *Journal of Modern Optics*, **2010**, 57, 1900-1907	1.1	2
85	All-optical pump-and-probe detection of two-time correlations in a Fermi gas. *Physical Review A*, **2010**, 81,	2.6	3
84	Superfluidity in polariton condensates. *Journal of Physics: Conference Series*, **2010**, 210, 012060	0.3	1
83	Exciton-polariton Bose-Einstein condensation: advances and issues. *International Journal of Nanotechnology*, **2010**, 7, 668	1.5	15
82	Seeking Supersolidity in Helium Layers. *Physics Magazine*, **2010**, 3,	1.1	4
81	Density correlations and analog dynamical Casimir emission of Bogoliubov phonons in modulated atomic Bose-Einstein condensates. *European Physical Journal D*, **2010**, 56, 391-404	1.3	74
80	Photon wave-packet manipulation via dynamic electromagnetically induced transparency in multilayer structures. *Physical Review A*, **2010**, 81,	2.6	3
79	Probing quasiparticle states in strongly interacting atomic gases by momentum-resolved Raman photoemission spectroscopy. *Physical Review A*, **2009**, 80,	2.6	19
78	Confluence of resonant laser excitation and bidirectional quantum-dot nuclear-spin polarization. *Nature Physics*, **2009**, 5, 758-763	16.2	142
77	Superfluidity of polaritons in semiconductor microcavities. *Nature Physics*, **2009**, 5, 805-810	16.2	628
76	Fermionized photons in an array of driven dissipative nonlinear cavities. *Physical Review Letters*, **2009**, 103, 033601	7.4	201
75	Probing the excitation spectrum of polariton condensates. *Physical Review B*, **2009**, 79,	3.3	18
74	Bogoliubov theory of acoustic Hawking radiation in Bose-Einstein condensates. *Physical Review A*, **2009**, 80,	2.6	92
73	Extracavity quantum vacuum radiation from a single qubit. *Physical Review A*, **2009**, 80,	2.6	157
72	Observation of long-lived polariton states in semiconductor microcavities across the parametric threshold. *Physical Review Letters*, **2009**, 102, 056402	7.4	30
71	Quantized vortices in an exciton–polariton condensate. *Nature Physics*, **2008**, 4, 706-710	16.2	499
70	Spatial and spectral shape of inhomogeneous nonequilibrium exciton-polariton condensates. *Physical Review B*, **2008**, 77,	3.3	142

69	Coherent dynamics and parametric instabilities of microcavity polaritons in double-well systems. *Physical Review B*, **2008**, 77,	3.3	77
68	Numerical observation of Hawking radiation from acoustic black holes in atomic Bose-Einstein condensates. *New Journal of Physics*, **2008**, 10, 103001	2.9	166
67	Nonlocal density correlations as a signature of Hawking radiation from acoustic black holes. *Physical Review A*, **2008**, 78,	2.6	126
66	Optical properties of atomic Mott insulators: From slow light to dynamical Casimir effects. *Physical Review A*, **2008**, 77,	2.6	34
65	Light propagation in atomic Mott Insulators. *Journal of the European Optical Society-Rapid Publications*, **2008**, 3,	2.5	10
64	Excitations and superfluidity in non-equilibrium Bose-Einstein condensates of exciton-polaritons. *Superlattices and Microstructures*, **2008**, 43, 524-527	2.8	8
63	Radiation induced force between two planar waveguides. *European Physical Journal D*, **2008**, 46, 157-164	1.3	32
62	Quantum vacuum radiation spectra from a semiconductor microcavity with a time-modulated vacuum Rabi frequency. *Physical Review Letters*, **2007**, 98, 103602	7.4	168
61	Semiclassical field method for the equilibrium Bose gas and application to thermal vortices in two dimensions. *Physical Review A*, **2007**, 76,	2.6	22
60	Excitations in a nonequilibrium Bose-Einstein condensate of exciton polaritons. *Physical Review Letters*, **2007**, 99, 140402	7.4	402
59	Many-body Physics of a Quantum Fluid of Exciton-Polaritons in a Semiconductor Microcavity. *Journal of Low Temperature Physics*, **2007**, 148, 459-464	1.3	2
58	On the ultrastrong vacuum Rabi coupling of an intersubband transition in a semiconductor microcavitya). *Journal of Applied Physics*, **2007**, 101, 081709	2.5	4
57	Goldstone mode of optical parametric oscillators in planar semiconductor microcavities in the strong-coupling regime. *Physical Review A*, **2007**, 76,	2.6	52
56	Measuring the one-particle excitations of ultracold fermionic atoms by stimulated Raman spectroscopy. *Physical Review Letters*, **2007**, 98, 240402	7.4	88
55	Parametric oscillation threshold of semiconductor microcavities in the strong coupling regime. *Physical Review B*, **2007**, 75,	3.3	63
54	Quantum Monte Carlo study of ring-shaped polariton parametric luminescence in a semiconductor microcavity. *Physical Review B*, **2007**, 76,	3.3	16
53	One-dimensional description of a Bose-Einstein condensate in a rotating closed-loop waveguide. *New Journal of Physics*, **2006**, 8, 162-162	2.9	23
52	Bogoliubov-Cerenkov radiation in a Bose-Einstein condensate flowing against an obstacle. *Physical Review Letters*, **2006**, 97, 260403	7.4	112

51	Pair correlations of an expanding superfluid Fermi gas. *Physical Review Letters*, **2006**, 97, 100405	7.4	29
50	Dipole polarizability of a trapped superfluid Fermi gas. *Physical Review Letters*, **2006**, 97, 190403	7.4	8
49	Polariton quantum blockade in a photonic dot. *Physical Review B*, **2006**, 73,	3.3	150
48	Absence of long-range coherence in the parametric emission of photonic wires. *Physical Review B*, **2006**, 74,	3.3	48
47	Imaging of critical correlations in optical lattices and atomic traps. *Physical Review A*, **2006**, 73,	2.6	21
46	Bragg scattering and the spin structure factor of two-component atomic gases. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2006**, 39, S211-S219	1.3	19
45	Input-output theory of cavities in the ultrastrong coupling regime: The case of time-independent cavity parameters. *Physical Review A*, **2006**, 74,	2.6	196
44	Photon energy lifter. *Optics Express*, **2006**, 14, 7270-8	3.3	28
43	Cavity-enhanced single-frequency synthesis via difference-frequency generation of mode-locked pulse trains. *Journal of the Optical Society of America B: Optical Physics*, **2005**, 22, 2115	1.7	2
42	Spontaneous microcavity-polariton coherence across the parametric threshold: Quantum Monte Carlo studies. *Physical Review B*, **2005**, 72,	3.3	75
41	Quantum vacuum properties of the intersubband cavity polariton field. *Physical Review B*, **2005**, 72,	3.3	407
40	Quantum fluid effects and parametric instabilities in microcavities. *Physica Status Solidi (B): Basic Research*, **2005**, 242, 2224-2245	1.3	77
39	Atom interferometric detection of the pairing order parameter in a Fermi gas. *Physical Review Letters*, **2005**, 94, 223202	7.4	26
38	Sensitive measurement of forces at the micron scale using Bloch oscillations of ultracold atoms. *Physical Review Letters*, **2005**, 95, 093202	7.4	79
37	Coherence and correlation properties of a one-dimensional attractive Fermi gas. *Optics Communications*, **2004**, 243, 81-106	2	8
36	Superfluidity of the 1D Bose gas. *Comptes Rendus Physique*, **2004**, 5, 107-127	1.4	9
35	Spin-orbit coupling and Berry phase with ultracold atoms in 2D optical lattices. *Physical Review Letters*, **2004**, 92, 153005	7.4	80
34	Probing microcavity polariton superfluidity through resonant Rayleigh scattering. *Physical Review Letters*, **2004**, 93, 166401	7.4	245

33	Imaging of spinor gases. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2004**, 37, S115-S125	1.3	35
32	An exact reformulation of the Bose Hubbard model in terms of a stochastic Gutzwiller ansatz. *New Journal of Physics*, **2003**, 5, 91-91	2.9	9
31	Exact Reformulation of the Bosonic Many-Body Problem in Terms of Stochastic Wave Functions: an Elementary Derivation. *Annales Henri Poincare*, **2003**, 4, 783-792	1.2	3
30	In situ velocity imaging of ultracold atoms using slow light. *Physical Review A*, **2003**, 67,	2.6	16
29	Transverse Fresnel-Fizeau drag effects in strongly dispersive media. *Physical Review A*, **2003**, 68,	2.6	24
28	Vavilov-Cherenkov effect in a driven resonant medium. *Physical Review E*, **2003**, 67, 046609	2.4	4
27	Condensate statistics in one-dimensional interacting Bose gases: exact results. *Physical Review Letters*, **2003**, 90, 030401	7.4	29
26	Exact Reformulation of the Bosonic Many-Body Problem in Terms of Stochastic Wave Functions: an Elementary Derivation **2003**, 783-792		
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