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Observation of persistent flow of a Bose-Einstein condensate in a toroidal trap

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#	Paper	IF	Citations
393	Advances in optical angular momentum. 2008 , 2, 299-313		627
392	Spontaneous vortices in the formation of Bose-Einstein condensates. <i>Nature</i> , 2008 , 455, 948-951	50.4	358
391	Continuous vortex pumping into a spinor condensate with magnetic fields. <i>Physical Review A</i> , 2008 , 78,	2.6	13
390	Bose-Einstein condensates on a ring with periodic scattering length: Spontaneous symmetry breaking and entanglement. <i>Physical Review A</i> , 2008 , 77,	2.6	34
389	Topological winding and unwinding in metastable Bose-Einstein condensates. <i>Physical Review Letters</i> , 2008 , 100, 060401	7.4	45
388	Reproducible dynamic dark ring lattices for ultracold atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008 , 41, 211001	1.3	24
387	Supersolitons: solitonic excitations in atomic soliton chains. <i>Physical Review Letters</i> , 2008 , 101, 144101	7.4	28
386	Suppression of nonlinear interactions in resonant macroscopic quantum devices: the example of the solid-state ring laser gyroscope. <i>Physical Review Letters</i> , 2008 , 100, 183901	7.4	11
385	Wave function engineering and circulating spin current in trapped Bose-Einstein condensates. 2008 , 84, 20012		7
384	Bright solitary waves in a Bose-Einstein condensate and their interactions. <i>Physical Review A</i> , 2008 , 78,	2.6	1
383	Smooth inductively coupled ring trap for atoms. <i>Physical Review A</i> , 2008 , 77,	2.6	29
382	Stationary rings of vortices in nonrotating Bose-Einstein condensates. <i>Physical Review A</i> , 2008 , 78,	2.6	6
381	Hydrodynamic boundary condition for superfluid flow. <i>Physical Review B</i> , 2008 , 77,	3.3	4
380	Magnetization profile and core-level spectroscopy in a multiply quantized vortex of imbalanced Fermi superfluids. <i>Physical Review A</i> , 2008 , 77,	2.6	4
379	Rotational fluxons of Bose-Einstein condensates in coplanar double-ring traps. <i>Physical Review A</i> , 2009 , 80,	2.6	36
378	Mixtures of Bose gases confined in a ring potential. <i>Physical Review Letters</i> , 2009 , 103, 100404	7.4	48
377	Quantum fluctuations of a Bose-Josephson junction in a quasi-one-dimensional ring trap. <i>Physical Review A</i> , 2009 , 79,	2.6	9

376	Spin drag in noncondensed Bose gases. <i>Physical Review Letters</i> , 2009 , 103, 170401	7.4	20
375	Steering Bose-Einstein condensates despite time symmetry. <i>Physical Review Letters</i> , 2009 , 102, 130604	7.4	23
374	Excited spin states and phase separation in spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2009 , 80,	2.6	35
373	Persistent currents in cold atoms. <i>Physical Review A</i> , 2009 , 80,	2.6	8
372	Quantum stirring as a probe of superfluidlike behavior in interacting one-dimensional Bose gases. <i>Physical Review B</i> , 2009 , 79,	3.3	8
371	Scale-invariant thermodynamics of a toroidally trapped Bose gas. <i>Physical Review A</i> , 2009 , 79,	2.6	4
370	Conical intersections in laboratory coordinates with ultracold molecules. <i>Physical Review Letters</i> , 2009 , 103, 083201	7.4	14
369	Drag force on an impurity below the superfluid critical velocity in a quasi-one-dimensional Bose-Einstein condensate. <i>Physical Review Letters</i> , 2009 , 103, 085302	7.4	36
368	Decoherence in the collision of two Bose-Einstein condensates. <i>Physical Review A</i> , 2009 , 79,	2.6	0
367	Angular Fulde-Ferrell-Larkin-Ovchinnikov state in cold fermion gases in a toroidal trap. <i>Physical Review B</i> , 2009 , 80,	3.3	26
366	Decay of superfluid currents in the interacting one-dimensional Bose gas. <i>Physical Review A</i> , 2009 , 80,	2.6	15
365	Damping of superfluid flow by a thermal cloud. <i>Physical Review Letters</i> , 2009 , 103, 265301	7.4	14
364	Superfluid and Fermi-liquid phases of Bose-Fermi mixtures in optical lattices. <i>Physical Review A</i> , 2009 , 79,	2.6	
363	Coherent ratchets in driven Bose-Einstein condensates. <i>Physical Review Letters</i> , 2009 , 103, 200601	7.4	18
362	Experimental demonstration of painting arbitrary and dynamic potentials for Bose-Einstein condensates. <i>New Journal of Physics</i> , 2009 , 11, 043030	2.9	344
361	Stationary arrays of vortices in Bose-Einstein condensates confined by a toroidal trap. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 145301	1.3	13
360	Decay of multiply charged vortices at nonzero temperatures. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 095301	1.3	13
359	Measuring atomic NOON-states and using them to make precision measurements. <i>New Journal of Physics</i> , 2009 , 11, 103040	2.9	5

358	Quantised Vortices in Atomic Bose-Einstein Condensates. 2009 , 16, 351-403		7
357	Stability of Persistent Currents in a Bose-Einstein Condensate Confined in a Toroidal Trap. <i>Journal of Low Temperature Physics</i> , 2009 , 154, 30-40	1.3	8
356	Influence of global features of a Bose-Einstein condensate on the vortex velocity. <i>European Physical Journal D</i> , 2009 , 54, 585-590	1.3	4
355	Ultra cold atoms and Bose-Einstein condensation for quantum metrology. 2009 , 172, 37-55		7
354	Atom trapping in an interferometrically generated bottle beam trap. 2009 , 34, 1159-61		91
353	Unusual decoherence in qubit measurements with a Bose-Einstein condensate. <i>Physical Review A</i> , 2009 , 79,	2.6	15
352	Vortices near the Mott phase of a trapped Bose-Einstein condensate. <i>Physical Review A</i> , 2009 , 79,	2.6	13
351	Vortex-induced phase-slip dissipation in a toroidal Bose-Einstein condensate flowing through a barrier. <i>Physical Review A</i> , 2009 , 80,	2.6	45
350	When superfluids are a drag. 2009 , 50, 453-461		3
349	Dynamics of quantum vortices in a toroidal trap. <i>Physical Review A</i> , 2009 , 79,	2.6	34
348	Critical velocity of superfluid flow through single-barrier and periodic potentials. <i>Physical Review A</i> , 2009 , 80,	2.6	43
347	Metastable quantum phase transitions in a periodic one-dimensional Bose gas: Mean-field and Bogoliubov analyses. <i>Physical Review A</i> , 2009 , 79,	2.6	46
346	Rotating trapped Bose-Einstein condensates. 2009 , 81, 647-691		725
345	Quantum stirring in a one-dimensional Bose gas. 2009 , 150, 032015		2
344	Superfluidity in polariton condensates. 2010 , 210, 012060		1
343	Geometric scale invariance as a route to macroscopic degeneracy: Loading a toroidal trap with a Bose or Fermi gas. <i>Physical Review A</i> , 2010 , 82,	2.6	2
342	Bose-Einstein condensation in dark power-law laser traps. <i>Physical Review A</i> , 2010 , 82,	2.6	22
341	Phase fluctuations in anisotropic Bose-Einstein condensates: From cigars to rings. <i>Physical Review A</i> , 2010 , 82,	2.6	19

340	Persistent currents in Bose gases confined in annular traps. <i>Physical Review A</i> , 2010 , 82,	2.6	18
339	Macroscopic two-state systems in trapped atomic condensates. <i>Physical Review A</i> , 2010 , 82,	2.6	10
338	Robust mesoscopic superposition of strongly correlated ultracold atoms. <i>Physical Review A</i> , 2010 , 82,	2.6	37
337	Resource Article: Experiments with Vortices in Superfluid Atomic Gases. <i>Journal of Low Temperature Physics</i> , 2010 , 161, 574-602	1.3	42
336	Oscillatory persistent currents in quantum rings: Semiconductors versus superconductors. 2010 , 470, 848-852		4
335	Persistent currents and quantized vortices in a polariton superfluid. 2010 , 6, 527-533		223
334	Metastable states and macroscopic quantum tunneling in a cold-atom Josephson ring. <i>Physical Review Letters</i> , 2010 , 104, 150405	7.4	15
333	Vortex dynamics in anisotropic traps. <i>Physical Review A</i> , 2010 , 82,	2.6	6
332	Hidden vorticity in binary Bose-Einstein condensates. <i>Physical Review A</i> , 2010 , 82,	2.6	37
331	Weakly driven quantum coherent ratchets in cold-atom systems. <i>Physical Review A</i> , 2010 , 82,	2.6	12
330	Solitary waves of Bose-Einstein-condensed atoms confined in finite rings. <i>Physical Review A</i> , 2010 , 82,	2.6	16
329	Connection between rotation and miscibility in a two-component Bose-Einstein condensate. <i>Physical Review A</i> , 2010 , 82,	2.6	14
328	Rotational response of two-component Bose-Einstein condensates in ring traps. <i>Physical Review A</i> , 2010 , 81,	2.6	29
327	Entanglement-enhanced atomic gyroscope. <i>Physical Review A</i> , 2010 , 81,	2.6	37
326	Metastable quantum phase transitions in a periodic one-dimensional Bose gas. II. Many-body theory. <i>Physical Review A</i> , 2010 , 81,	2.6	51
325	Mixtures of Bose gases confined in concentric coupled annular traps. <i>Physical Review A</i> , 2010 , 81,	2.6	18
324	Simulating and detecting artificial magnetic fields in trapped atoms. <i>Physical Review A</i> , 2010 , 81,	2.6	7
323	Accurate numerical verification of the instanton method for macroscopic quantum tunneling: Dynamics of phase slips. <i>Physical Review B</i> , 2010 , 82,	3.3	12

322	Propagating wave packets and quantized currents in coherently driven polariton superfluids. <i>Physical Review Letters</i> , 2010 , 105, 236402	7.4	13
321	Time-resolved density correlations as a probe of squeezing in toroidal Bose-Einstein condensates. <i>New Journal of Physics</i> , 2010 , 12, 095016	2.9	2
320	Fabrication of a planar micro Penning trap and numerical investigations of versatile ion positioning protocols. <i>New Journal of Physics</i> , 2010 , 12, 065019	2.9	14
319	Decay of a quantum vortex: Test of nonequilibrium theories for warm Bose-Einstein condensates. <i>Physical Review A</i> , 2010 , 81,	2.6	53
318	Measuring the superfluid fraction of an ultracold atomic gas. <i>Physical Review Letters</i> , 2010 , 104, 030401	7.4	48
317	Collective dynamics of excitons and polaritons in semiconductor nanostructures. 2010 , 25, 043001		14
316	Experimental generation and dynamical reconfiguration of different circular optical lattices for applications in atom trapping. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 948	1.7	14
315	Quantum pump for countercirculation in a spinor Bose-Einstein condensate. <i>Physical Review A</i> , 2010 , 81,	2.6	15
314	Dipolar condensates confined in a toroidal trap: Ground state and vortices. <i>Physical Review A</i> , 2010 , 81,	2.6	50
313	Rotation of a Bose-Einstein condensate held under a toroidal trap. <i>Physical Review A</i> , 2010 , 81,	2.6	18
312	Superflow in a toroidal Bose-Einstein condensate: an atom circuit with a tunable weak link. <i>Physical Review Letters</i> , 2011 , 106, 130401	7.4	312
311	Superfluidity of Bose-Einstein condensates in toroidal traps with nonlinear lattices. <i>Physical Review A</i> , 2011 , 84,	2.6	18
310	Rotating Fulde-Ferrell-Larkin-Ovchinnikov state in cold Fermi gases. <i>Physical Review A</i> , 2011 , 84,	2.6	9
309	Rotational properties of dipolar Bose-Einstein condensates confined in anisotropic harmonic potentials. <i>Physical Review A</i> , 2011 , 83,	2.6	28
308	Spectral properties of attractive bosons in a ring lattice including a single-site potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 115308	1.3	5
307	A smooth, holographically generated ring trap for the investigation of superfluidity in ultracold atoms. <i>Physica Scripta</i> , 2011 , T143, 014008	2.6	21
306	From rotating atomic rings to quantum Hall states. <i>Scientific Reports</i> , 2011 , 1, 43	4.9	50
305	One dimensional bosons: From condensed matter systems to ultracold gases. 2011 , 83, 1405-1466		658

304	Analytical solutions for two heteronuclear atoms in a ring trap. <i>European Physical Journal D</i> , 2011 , 64, 459-464	1.3	5
303	Stable multidimensional soliton stripes in two-component Bose-Einstein condensates. 2011 , 44, 381-389		23
302	Non-existence of vortices in the small density region of a condensate. 2011 , 260, 2387-2406		19
301	Instability and vortex ring dynamics in a three-dimensional superfluid flow through a constriction. <i>New Journal of Physics</i> , 2011 , 13, 043008	2.9	21
300	Vortex nucleation in Bose-Einstein condensates confined in a QUIC trap by topological phase imprinting. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 075302	1.3	10
299	Rotating superfluids in anharmonic traps: From vortex lattices to giant vortices. <i>Physical Review A</i> , 2011 , 84,	2.6	32
298	Persistent currents in dipolar Bose-Einstein condensates confined in annular potentials. <i>Physical Review A</i> , 2011 , 84,	2.6	8
297	Engineering mesoscopic superpositions of superfluid flow. <i>Physical Review A</i> , 2011 , 84,	2.6	8
296	Phase slippage and self-trapping in a self-induced bosonic Josephson junction. <i>Physical Review A</i> , 2011 , 84,	2.6	27
295	Crow instability in trapped Bose-Einstein condensates. <i>Physical Review A</i> , 2011 , 84,	2.6	21
294	Exact Bogoliubov-de Gennes solutions for gray-soliton backgrounds. <i>Physical Review A</i> , 2011 , 84,	2.6	7
293	Junction and spontaneous current state in a superfluid Fermi gas. <i>Physical Review A</i> , 2011 , 84,	2.6	4
292	Bose-Hubbard model in a ring-shaped optical lattice with high filling factors. <i>Physical Review A</i> , 2011 , 84,	2.6	13
291	Time-averaged adiabatic ring potential for ultracold atoms. <i>Physical Review A</i> , 2011 , 83,	2.6	92
290	Exact yrast spectra of cold atoms on a ring. <i>Physical Review A</i> , 2011 , 83,	2.6	9
289	Spectroscopic method to measure the superfluid fraction of an ultracold atomic gas. <i>Physical Review A</i> , 2011 , 83,	2.6	8
288	Winding-number dependence of Bose-Einstein condensates in a ring-shaped lattice. <i>Physical Review A</i> , 2011 , 83,	2.6	9
287	Fast production of large Na ²³ Bose-Einstein condensates in an optically plugged magnetic quadrupole trap. <i>Physical Review A</i> , 2011 , 83,	2.6	24

286	A Rotating Bose-Einstein Condensation in a Toroidal Trap. 2011 , 56, 1031-1034		1
285	Quantum superpositions of flow states on a ring. 2011 , 13, 064011		5
284	Solitary waves and yrast states in Bose-Einstein condensed gases of atoms. 2011 , 95, 30002		12
283	Time-averaged optical dipole traps for Bose-Einstein condensates. 2011 ,		
282	The atomic quantum ring. 2011 , 13, 064024		4
281	Optical Vortex Cat States and their Utility for Creating Macroscopic Superpositions of Persistent Flows. 2011 , 179-198		0
280	Ultra-stable matter-wave gyrosocopy with counter-rotating vortex superpositions in Bose-Einstein condensates. 2012 , 59, 1180-1185		12
279	Orbital Josephson effect and interactions in driven atom condensates on a ring. <i>New Journal of Physics</i> , 2012 , 14, 075023	2.9	11
278	Demonstration of an inductively coupled ring trap for cold atoms. <i>New Journal of Physics</i> , 2012 , 14, 103047	2.9	21
277	Robust quantum enhanced phase estimation in a multimode interferometer [corrected]. <i>Physical Review Letters</i> , 2012 , 108, 130402	7.4	19
276	Approximate mean-field equations of motion for quasi-two-dimensional Bose-Einstein-condensate systems. <i>Physical Review E</i> , 2012 , 86, 056710	2.4	10
275	Partial-transfer absorption imaging: a versatile technique for optimal imaging of ultracold gases. 2012 , 83, 083119		35
274	Contrast oscillations of the Bose-Einstein-condensation-based atomic interferometer. <i>Physical Review A</i> , 2012 , 85,	2.6	3
273	One- and two-atom states in a rotating ring lattice. <i>Physical Review A</i> , 2012 , 85,	2.6	
272	Superradiant exchange of orbital angular momentum between light and cold atoms. <i>Physical Review A</i> , 2012 , 85,	2.6	5
271	Spin-depairing transition of attractive Fermi gases on a ring driven by synthetic gauge fields. <i>Physical Review A</i> , 2012 , 85,	2.6	2
270	Magnetic confinement of neutral atoms based on patterned vortex distributions in superconducting disks and rings. <i>Physical Review A</i> , 2012 , 85,	2.6	13
269	A LUTTINGER LIQUID CORE INSIDE HELIUM-4 FILLED NANOPORES. 2012 , 26, 1244002		7

268	Formation and structure of vortex lattices in a rotating double-well Bose-Einstein condensate. 2012 , 9, 618-624		22
267	Winding up superfluid in a torus via Bose Einstein condensation. <i>Scientific Reports</i> , 2012 , 2, 352	4.9	73
266	Phase and Spontaneous Supercurrent induced by Pseudo-ferromagnetic Junction in a Spin-polarized Superfluid Fermi Gas. 2012 , 400, 012027		
265	Crossover from Fulde-Ferrell state to Larkin-Ovchinnikov state in cold fermion gases. 2012 , 400, 012086		
264	Vortex Ring Pinning for the Gross-Pitaevskii Equation in Three-Dimensional Space. 2012 , 44, 3991-4047		5
263	Spin-orbit-coupled Bose-Einstein condensates confined in concentricly coupled annular traps. <i>Physical Review A</i> , 2012 , 86,	2.6	26
262	Superfluid behaviour of a two-dimensional Bose gas. 2012 , 8, 645-648		135
261	Superfluid fountain effect in a Bose-Einstein condensate. <i>Physical Review A</i> , 2012 , 86,	2.6	14
260	The Interference Effect of a Bose-Einstein Condensate in a Ring-Shaped Trap. 2012 , 29, 050305		4
259	Quantum rings for beginners II: Bosons versus fermions. 2012 , 46, 119-132		17
258	Vortex dynamics in an annular Bose-Einstein condensate. <i>Physical Review A</i> , 2012 , 86,	2.6	13
257	Critical rotation of an annular superfluid Bose-Einstein condensate. <i>Physical Review A</i> , 2012 , 86,	2.6	36
256	Nonlinear modes and symmetry breaking in rotating double-well potentials. <i>Physical Review A</i> , 2012 , 86,	2.6	32
255	Quantized supercurrent decay in an annular Bose-Einstein condensate. <i>Physical Review A</i> , 2012 , 86,	2.6	147
254	Excitation spectrum of a two-component Bose-Einstein condensate in a ring potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012 , 45, 235302	1.3	4
253	Self-similar modes of coherent diffusion with orbital angular momentum. 365-384		
252	Composite-field Goldstone states and Higgs mechanism in dilute Bose gases. <i>Physical Review A</i> , 2012 , 85,	2.6	6
251	Dipolar Bose-Einstein condensate in a ring or in a shell. <i>Physical Review A</i> , 2012 , 85,	2.6	20

250	Bose-Einstein condensation transition studies for atoms confined in Laguerre-Gaussian laser modes. 2012 , 285, 84-89		2
249	Theory of superfluidity and drag force in the one-dimensional Bose gas. 2012 , 7, 54-71		35
248	Bose-Einstein condensates in concentric coupled annular traps with spin-orbit coupling and rotation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 1109-1113	2.3	9
247	Rotating BECs. 2013 , 241-256		
246	The nature of superfluidity and Bose-Einstein condensation: From liquid 4He to dilute ultracold atomic gases (Review Article). <i>Low Temperature Physics</i> , 2013 , 39, 724-740	0.7	5
245	Stability of persistent currents in spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2013 , 88,	2.6	21
244	Characteristics of two-dimensional quantum turbulence in a compressible superfluid. <i>Physical Review Letters</i> , 2013 , 111, 235301	7.4	116
243	Threshold for creating excitations in a stirred superfluid ring. <i>Physical Review A</i> , 2013 , 88,	2.6	45
242	Ground states of two-component condensates in a harmonic plus Gaussian trap. 2013 , 86, 1		6
241	Gauge potential for neutral atoms in a magnetic quadrupole field. 2013 , 63, 951-956		2
240	Excitation spectrum of a toroidal spin-1 Bose-Einstein condensate. <i>Physical Review A</i> , 2013 , 88,	2.6	3
239	Driving phase slips in a superfluid atom circuit with a rotating weak link. <i>Physical Review Letters</i> , 2013 , 110, 025302	7.4	185
238	Persistent currents in spinor condensates. <i>Physical Review Letters</i> , 2013 , 110, 025301	7.4	127
237	Many-particle dynamics of bosons and fermions in quasi-one-dimensional flat-band lattices. <i>Physical Review A</i> , 2013 , 87,	2.6	48
236	Rotational properties of nondipolar and dipolar Bose-Einstein condensates confined in annular potentials. <i>Physical Review A</i> , 2013 , 87,	2.6	3
235	Quantum fluids of light. 2013 , 85, 299-366		1111
234	Continuous-wave solutions in spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2013 , 87,	2.6	7
233	Ultraslow helical optical bullets and their acceleration in magneto-optically controlled coherent atomic media. <i>Physical Review A</i> , 2013 , 87,	2.6	1

232	Experimental realization of Josephson junctions for an atom SQUID. <i>Physical Review Letters</i> , 2013 , 111, 205301	7.4	163
231	Dynamics of microparticles trapped in a perfect vortex beam. 2013 , 38, 4919-22		185
230	Bright solitons from the nonpolynomial Schrödinger equation with inhomogeneous defocusing nonlinearities. <i>Physical Review E</i> , 2013 , 88, 025201	2.4	22
229	Quantum dynamics of local phase differences between reservoirs of driven interacting bosons separated by simple aperture arrays. 2013 , 25, 275602		2
228	Engineering entanglement for metrology with rotating matter waves. <i>New Journal of Physics</i> , 2013 , 15, 063010	2.9	3
227	Effective Josephson dynamics in resonantly driven Bose-Einstein condensates. <i>New Journal of Physics</i> , 2013 , 15, 103006	2.9	20
226	Critical velocity for a toroidal Bose-Einstein condensate flowing through a barrier. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013 , 46, 095302	1.3	28
225	Delocalization and superfluidity of ultracold bosonic atoms in a ring lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013 , 46, 205303	1.3	3
224	Rotating spin-orbit coupled Bose-Einstein condensates in concentric coupled annular traps. 2013 , 23, 105501		4
223	Entanglement entropy and macroscopic quantum states with dipolar bosons in a triple-well potential. <i>Physical Review A</i> , 2013 , 87,	2.6	26
222	Diffraction catastrophes threaded by quantized vortex skeletons caused by atom-optical aberrations induced in trapped Bose-Einstein condensates. <i>Physical Review A</i> , 2013 , 88,	2.6	7
221	Phase diagram of the Bose-Hubbard model on a ring-shaped lattice with tunable weak links. <i>Physical Review A</i> , 2013 , 87,	2.6	3
220	Persistent currents in a bosonic mixture in the ring geometry. <i>Physical Review A</i> , 2013 , 88,	2.6	21
219	Persistent-current formation in a high-temperature Bose-Einstein condensate: An experimental test for classical-field theory. <i>Physical Review A</i> , 2013 , 88,	2.6	21
218	Multimode model for an atomic Bose-Einstein condensate in a ring-shaped optical lattice. <i>Physical Review A</i> , 2013 , 88,	2.6	10
217	Vortex Phases of Rotating Superfluids. 2013 , 414, 012034		5
216	Inductive dressed ring traps for ultracold atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 071001	1.3	7
215	Fundamental modes in a waveguide pipe twisted by inverted nonlinear double-well potential. 2014 , 24, 045403		8

214	Metastable spin textures and Nambu-Goldstone modes of a ferromagnetic spin-1 Bose-Einstein condensate confined in a ring trap. <i>Physical Review A</i> , 2014 , 90,	2.6	3
213	Decay of a superfluid current of ultracold atoms in a toroidal trap. <i>Physical Review A</i> , 2014 , 90,	2.6	30
212	Domain walls and bubble droplets in immiscible binary Bose gases. <i>Physical Review A</i> , 2014 , 90,	2.6	12
211	Structural transitions of nearly second order in classical dipolar gases. <i>Physical Review A</i> , 2014 , 90,	2.6	4
210	Localized modes in quasi-two-dimensional Bose-Einstein condensates with spin-orbit and Rabi couplings. <i>Physical Review A</i> , 2014 , 90,	2.6	65
209	Quench-induced supercurrents in an annular Bose gas. <i>Physical Review Letters</i> , 2014 , 113, 135302	7.4	138
208	Galilean invariance in confined quantum systems: implications for spectral gaps, superfluid flow, and periodic order. <i>Physical Review Letters</i> , 2014 , 112, 095301	7.4	3
207	Split Fermi seas in one-dimensional Bose fluids. <i>Physical Review A</i> , 2014 , 89,	2.6	18
206	Dynamic and energetic stabilization of persistent currents in Bose-Einstein condensates. <i>Physical Review A</i> , 2014 , 89,	2.6	6
205	Spin dynamics in a two-dimensional quantum gas. <i>Physical Review A</i> , 2014 , 89,	2.6	7
204	Persistent currents in a two-component Bose-Einstein condensate confined in a ring potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 215302	1.3	4
203	Hydrodynamics of compressible superfluids in confined geometries. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 055301	1.3	
202	Condensed-matter physics: history matters for a stirred superfluid. <i>Nature</i> , 2014 , 506, 166-7	50.4	3
201	Triangular Bose-Hubbard trimer as a minimal model for a superfluid circuit. <i>Physical Review A</i> , 2014 , 89,	2.6	16
200	Confinement of ultracold atoms in a Laguerre-Gaussian laser beam created with diffractive optics. 2014 , 321, 110-115		11
199	Wave Modes Trapped in Rotating Nonlinear Potentials. 2014 , 171-192		2
198	Creation of matter wave Bessel beams and observation of quantized circulation in a Bose-Einstein condensate. <i>New Journal of Physics</i> , 2014 , 16, 013046	2.9	31
197	Coherent injecting, extracting, and velocity filtering of neutral atoms in a ring trap via spatial adiabatic passage. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	8

196	Optimal persistent currents for interacting bosons on a ring with a gauge field. <i>Physical Review Letters</i> , 2014 , 113, 025301	7.4	57
195	Multisoliton Newton's cradles and supersolitons in regular and parity-time-symmetric nonlinear couplers. <i>Physical Review E</i> , 2014 , 89, 062926	2.4	10
194	Exact quantum dynamics of yrast states in the finite 1D Bose gas. 2014 , 497, 012030		3
193	Metastability, excitations, fluctuations, and multiple-swallowtail structures of a superfluid in a Bose-Einstein condensate in the presence of a uniformly moving defect. <i>Physical Review A</i> , 2015 , 91,	2.6	9
192	Quantum phases of Bose-Einstein condensates with synthetic spin-orbital-angular-momentum coupling. <i>Physical Review A</i> , 2015 , 91,	2.6	30
191	Persistent currents supported by solitary waves in toroidal Bose-Einstein condensates. <i>Physical Review A</i> , 2015 , 91,	2.6	28
190	Spin-orbital-angular-momentum coupling in Bose-Einstein condensates. <i>Physical Review A</i> , 2015 , 91,	2.6	39
189	Interaction-induced persistent-current enhancement in frustrated bosonic systems. <i>Physical Review A</i> , 2015 , 92,	2.6	3
188	Mean-field yrast spectrum and persistent currents in a two-component Bose gas with interaction asymmetry. <i>Physical Review A</i> , 2015 , 92,	2.6	6
187	Criticality and spin squeezing in the rotational dynamics of a Bose-Einstein condensate on a ring lattice. <i>Physical Review A</i> , 2015 , 92,	2.6	8
186	Critical Velocity and Dissipation of an Ultracold Bose-Fermi Counterflow. <i>Physical Review Letters</i> , 2015 , 115, 265303	7.4	58
185	Quantum Hall effect with small numbers of vortices in Bose-Einstein condensates. <i>Physical Review A</i> , 2015 , 92,	2.6	5
184	Sagnac Interferometry with a Single Atomic Clock. <i>Physical Review Letters</i> , 2015 , 115, 163001	7.4	31
183	Exact analytical study of ideal Bose atoms in a one-dimensional harmonic trap. 2015 , 2015, P09011		3
182	Collective Excitation and Stability of Flowing Gapless Fermi Superfluids. <i>Journal of the Physical Society of Japan</i> , 2015 , 84, 044003	1.5	3
181	Superfluid qubit systems with ring shaped optical lattices. <i>Scientific Reports</i> , 2014 , 4, 4298	4.9	82
180	Applications. 369-370		
179	Laser cooling and trapping of atoms. 498-523		

178	Superfluidity and Chaos in low dimensional circuits. <i>Scientific Reports</i> , 2015 , 5, 13433	4.9	23
177	Integrated coherent matter wave circuits. <i>New Journal of Physics</i> , 2015 , 17, 092002	2.9	37
176	Optimal control of Bose-Einstein condensates in three dimensions. <i>New Journal of Physics</i> , 2015 , 17, 113027	2.9	12
175	Classical-like wakes past elliptical obstacles in atomic Bose-Einstein condensates. 2015 , 594, 012044		13
174	Vortices in a toroidal Bose-Einstein condensate with a rotating weak link. <i>Physical Review A</i> , 2015 , 91,	2.6	28
173	Exact thermodynamic theory of an ideal boson gas in a one-dimensional harmonic trap. 2015 , 2015, P11003		2
172	Vortex excitation in a stirred toroidal Bose-Einstein condensate. <i>Physical Review A</i> , 2015 , 91,	2.6	14
171	Hysteresis and metastability of Bose-Einstein-condensed clouds of atoms confined in ring potentials. <i>Physical Review A</i> , 2015 , 91,	2.6	8
170	The Ground State of a Gross-Pitaevskii Energy with General Potential in the Thomas-Fermi Limit. 2015 , 217, 439-523		8
169	Topology-induced bifurcations for the nonlinear Schrödinger equation on the tadpole graph. <i>Physical Review E</i> , 2015 , 91, 013206	2.4	29
168	Sound waves and modulational instabilities on continuous-wave solutions in spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2015 , 91,	2.6	8
167	A new type of half-quantum circulation in a macroscopic polariton spinor ring condensate. 2015 , 112, 2676-81		41
166	Rotating a Bose-Einstein condensate by shaking an anharmonic axisymmetric magnetic potential. <i>Physical Review A</i> , 2015 , 91,	2.6	3
165	Bifurcations and stability of standing waves in the nonlinear Schrödinger equation on the tadpole graph. 2015 , 28, 2343-2378		42
164	Feedback-enhanced algorithm for aberration correction of holographic atom traps. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 115303	1.3	12
163	Artificial magnetic fields in momentum space in spin-orbit-coupled systems. <i>Physical Review A</i> , 2015 , 91,	2.6	3
162	Stability of persistent currents in open dissipative quantum fluids. <i>Physical Review B</i> , 2015 , 91,	3.3	8
161	Quantum simulation of non-trivial topology. <i>New Journal of Physics</i> , 2015 , 17, 045007	2.9	47

160	Coherent superposition of current flows in an atomtronic quantum interference device. <i>New Journal of Physics</i> , 2015 , 17, 045023	2.9	49
159	Oscillation of the spin-currents of cold atoms on a ring due to light-induced spin-orbit coupling. 2015 , 24, 060305		3
158	Optimal scaling of persistent currents for interacting bosons on a ring. 2015 , 224, 519-524		3
157	Blue-detuned optical ring trap for Bose-Einstein condensates based on conical refraction. <i>Optics Express</i> , 2015 , 23, 1638-50	3.3	46
156	Quantum transport in ultracold atoms. 2015 , 11, 998-1004		78
155	Geometry-induced modification of fluctuation spectrum in quasi-two-dimensional condensates. <i>New Journal of Physics</i> , 2016 , 18, 083007	2.9	2
154	Realizing and optimizing an atomtronic SQUID. <i>New Journal of Physics</i> , 2016 , 18, 055016	2.9	17
153	Robustness of discrete semifluxons in closed Bose-Hubbard chains. <i>New Journal of Physics</i> , 2016 , 18, 075005	2.9	7
152	Coherent quantum phase slip in two-component bosonic atomtronic circuits. <i>New Journal of Physics</i> , 2016 , 18, 015003	2.9	12
151	Bose-Einstein condensation in large time-averaged optical ring potentials. <i>New Journal of Physics</i> , 2016 , 18, 035003	2.9	46
150	Vortices in a Rotating Spin-Orbit-Coupled Bose-Einstein Condensate under Extreme Elongation in a Harmonic Plus Quartic Trap. 2016 , 66, 53-58		1
149	Recent developments in trapping and manipulation of atoms with adiabatic potentials. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 172001	1.3	41
148	Deterministic creation, pinning, and manipulation of quantized vortices in a Bose-Einstein condensate. <i>Physical Review A</i> , 2016 , 93,	2.6	22
147	Persistent currents in coherently coupled Bose-Einstein condensates in a ring trap. <i>Physical Review A</i> , 2016 , 93,	2.6	4
146	Controllable asymmetric double well and ring potential on an atom chip. <i>Physical Review A</i> , 2016 , 93,	2.6	13
145	Geometrically induced complex tunnelings for ultracold atoms carrying orbital angular momentum. <i>Physical Review A</i> , 2016 , 93,	2.6	16
144	Analytic vortex dynamics in an annular Bose-Einstein condensate. <i>Physical Review A</i> , 2016 , 93,	2.6	1
143	Persistent Superfluid Flow Arising from the He-McKellar-Wilkins Effect in Molecular Dipolar Condensates. <i>Physical Review Letters</i> , 2016 , 116, 250403	7.4	13

142	Engineering dark solitary waves in ring-trap Bose-Einstein condensates. <i>New Journal of Physics</i> , 2016 , 18, 025004	2.9	12
141	Generating and manipulating quantized vortices on-demand in a Bose-Einstein condensate: A numerical study. <i>Physical Review A</i> , 2016 , 93,	2.6	14
140	Emergence of classical rotation in superfluid Bose-Einstein condensates. <i>Physical Review A</i> , 2016 , 93,	2.6	7
139	Superfluid flow past an obstacle in annular Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 235301	1.3	6
138	Subluminal group velocity and dispersion of Laguerre Gauss beams in free space. <i>Scientific Reports</i> , 2016 , 6, 26842	4.9	19
137	Phase-tunable Josephson junction and spontaneous mass current in a spin-orbit-coupled Fermi superfluid. <i>Physical Review A</i> , 2016 , 94,	2.6	2
136	Interacting Atomic Interferometry for Rotation Sensing Approaching the Heisenberg Limit. <i>Physical Review Letters</i> , 2016 , 117, 203002	7.4	11
135	Nonlinear currents in a ring-shaped waveguide with balanced gain and dissipation. <i>Physical Review A</i> , 2016 , 94,	2.6	11
134	Optomechanics based on angular momentum exchange between light and matter. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 153001	1.3	31
133	Energy estimates and symmetry breaking in attractive Bose-Einstein condensates with ring-shaped potentials. 2016 , 33, 809-828		63
132	Minimally destructive, Doppler measurement of a quantized flow in a ring-shaped Bose-Einstein condensate. <i>New Journal of Physics</i> , 2016 , 18, 025001	2.9	35
131	Ultracold bosons with short-range interaction in regular optical lattices. 2016 , 607, 1-101		51
130	Vortices and vortex lattices in quantum ferrofluids. 2017 , 29, 103004		23
129	Optical angular momentum and atoms. 2017 , 375,		44
128	Neutron stars in the laboratory. 2017 , 26, 1730015		29
127	Spin-orbit-coupled Bose-Einstein condensates held under a toroidal trap. <i>Physical Review A</i> , 2017 , 95,	2.6	20
126	Ground-state phases of the spin-orbit-coupled spin-1 Bose gas in a toroidal trap. <i>Physical Review A</i> , 2017 , 96,	2.6	10
125	Rotating Bose-Einstein condensates with a finite number of atoms confined in a ring potential: Spontaneous symmetry breaking beyond the mean-field approximation. <i>Physical Review A</i> , 2017 , 95,	2.6	7

124	Dimensional reduction in Bose-Einstein condensed clouds of atoms confined in tight potentials of any geometry and any interaction strength. <i>Physical Review E</i> , 2017 , 95, 012142	2.4	1
123	Coupled atomic wires in a synthetic magnetic field. <i>Physical Review A</i> , 2017 , 95,	2.6	11
122	Solid-body rotation and giant circulations in coupled condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 165002	1.3	
121	Two-terminal transport measurements with cold atoms. 2017 , 29, 343003		72
120	Adiabatically tuning quantized supercurrents in an annular Bose-Einstein condensate. <i>Physical Review A</i> , 2017 , 96,	2.6	5
119	Temperature-induced decay of persistent currents in a superfluid ultracold gas. <i>Physical Review A</i> , 2017 , 95,	2.6	16
118	Diffused Vorticity and Moment of Inertia of a Spin-Orbit Coupled Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2017 , 118, 145302	7.4	20
117	Vortex states and spin textures of rotating spin-orbit-coupled Bose-Einstein condensates in a toroidal trap. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 155301	1.3	15
116	Dynamics of quantum vortices in a quasi-two-dimensional Bose-Einstein condensate with two holes. 2017 , 105, 458-463		3
115	Modulational instability of coupled ring waveguides with linear gain and nonlinear loss. <i>Scientific Reports</i> , 2017 , 7, 4089	4.9	5
114	Odd-petal-number states and persistent flows in spin-orbit-coupled Bose-Einstein condensates. <i>Physical Review A</i> , 2017 , 95,	2.6	24
113	Tuning the Drude weight of Dirac-Weyl fermions in one-dimensional ring traps. <i>Physical Review B</i> , 2017 , 96,	3.3	3
112	Quantized superfluid vortex dynamics on cylindrical surfaces and planar annuli. <i>Physical Review A</i> , 2017 , 96,	2.6	14
111	Ramifications of topology and thermal fluctuations in quasi-2D condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 225301	1.3	2
110	Number-phase uncertainty and quantum dynamics of bosons and fermions interacting with a finite range and large scattering length in a double-well potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 045302	1.3	2
109	Producing superfluid circulation states using phase imprinting. <i>Physical Review A</i> , 2018 , 97,	2.6	17
108	Stationary states and rotational properties of spin-orbit-coupled Bose-Einstein condensates held under a toroidal trap. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 1690-1694	2.3	3
107	Two-dimensional network of atomtronic qubits. <i>Physical Review A</i> , 2018 , 97,	2.6	1

106	Finite-size effects in the dynamics of few bosons in a ring potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 035504	1.3	2
105	Excitations of a vortex line in an elongated dipolar condensate. <i>Physical Review A</i> , 2018 , 98,	2.6	5
104	Collisional dynamics of multiple dark solitons in a toroidal Bose-Einstein condensate: quasiparticle picture. <i>European Physical Journal D</i> , 2018 , 72, 1	1.3	
103	Excitation spectrum of a mixture of two Bose gases confined in a ring potential with interaction asymmetry. <i>New Journal of Physics</i> , 2018 , 20, 045006	2.9	2
102	Quantum quench and thermalization of one-dimensional Fermi gas via phase-space hydrodynamics. <i>Physical Review A</i> , 2018 , 98,	2.6	8
101	Optical Lattice with Torus Topology. <i>Physical Review Letters</i> , 2018 , 121, 133002	7.4	11
100	Quantum sensing using imbalanced counter-rotating Bose-Einstein condensate modes. <i>New Journal of Physics</i> , 2018 , 20, 103001	2.9	6
99	Damping of Josephson Oscillations in Strongly Correlated One-Dimensional Atomic Gases. <i>Physical Review Letters</i> , 2018 , 121, 090404	7.4	17
98	Kelvin-Helmholtz instability in a single-component atomic superfluid. <i>Physical Review A</i> , 2018 , 97,	2.6	13
97	Exotic ground states of a spin-orbit-coupled spinor Bose-Einstein condensate trapped by a toroidal potential. 2018 , 15, 085501		3
96	Talbot-enhanced, maximum-visibility imaging of condensate interference. 2018 , 5, 80		9
95	Ground-states and rotational properties of a spin-orbit-coupled spin-1 Bose-Einstein condensate in a concentrically coupled toroidal trap. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 2493-2498	2.3	4
94	Probing the exchange statistics of one-dimensional anyon models. <i>Physical Review A</i> , 2018 , 97,	2.6	5
93	Quantum magnetism with ultracold bosons carrying orbital angular momentum. <i>Physical Review A</i> , 2019 , 100,	2.6	3
92	Defect production by pure phase twist injection as Aharonov-Bohm effect. <i>Physical Review E</i> , 2019 , 100, 023107	2.4	3
91	Non-spreading matter-wave packets in a ring. <i>Physica Scripta</i> , 2019 , 94, 115402	2.6	1
90	Stationary Real Solutions of the Nonlinear Schrödinger Equation on a Ring with a Defect. <i>Journal of the Physical Society of Japan</i> , 2019 , 88, 034005	1.5	4
89	Second-order topological corner states with ultracold atoms carrying orbital angular momentum in optical lattices. <i>Physical Review B</i> , 2019 , 100,	3.3	12

88	Mixture of two unequally charged superfluids in a magnetic field. <i>Physical Review A</i> , 2019 , 99,	2.6	2
87	Generating accessible entanglement in bosons via pair-correlated tunneling. <i>Physical Review A</i> , 2019 , 100,	2.6	4
86	Immiscible and miscible states in binary condensates in the ring geometry. <i>New Journal of Physics</i> , 2019 , 21, 073058	2.9	8
85	Hypersonic Bose-Einstein condensates in accelerator rings. <i>Nature</i> , 2019 , 570, 205-209	50.4	33
84	Nambu-Jona Lasinio and Nonlinear Sigma Models in Condensed Matter Systems. <i>Symmetry</i> , 2019 , 11, 636	2.7	5
83	Decay mechanisms of superflow of Bose-Einstein condensates in ring traps. <i>Physical Review A</i> , 2019 , 99,	2.6	5
82	Nonlinear waves of Bose-Einstein condensates in rotating ring-lattice potentials. <i>Physical Review A</i> , 2019 , 99,	2.6	6
81	Stable Multiring and Rotating Solitons in Two-Dimensional Spin-Orbit-Coupled Bose-Einstein Condensates with a Radially Periodic Potential. <i>Physical Review Letters</i> , 2019 , 122, 123201	7.4	16
80	Topological edge states with ultracold atoms carrying orbital angular momentum in a diamond chain. <i>Physical Review A</i> , 2019 , 99,	2.6	21
79	Tunneling vortex dynamics in linearly coupled Bose-Hubbard rings. <i>Physical Review A</i> , 2019 , 100,	2.6	2
78	Study of counterintuitive transport properties in the Aubry-Andr�Harper model via entanglement entropy and persistent current. <i>Physical Review B</i> , 2019 , 100,	3.3	9
77	Superfluid fraction of few bosons in an annular geometry in the presence of a rotating weak link. <i>Physical Review A</i> , 2019 , 100,	2.6	1
76	Realizing the Harper model with ultracold atoms in a ring lattice. <i>Physical Review A</i> , 2019 , 99,	2.6	6
75	Double-layer Bose-Einstein condensates: A quantum phase transition in the transverse direction, and reduction to two dimensions. <i>Physical Review E</i> , 2020 , 102, 042209	2.4	7
74	Berry phase for a Bose gas on a one-dimensional ring. <i>Physical Review A</i> , 2020 , 102,	2.6	1
73	Rotational properties of superfluid Fermi-Bose mixtures in a tight toroidal trap. <i>Physical Review A</i> , 2020 , 102,	2.6	1
72	Current production in ring condensates with a weak link. <i>Physical Review A</i> , 2020 , 102,	2.6	2
71	Orbital angular momentum dynamics of Bose-Einstein condensates trapped in two stacked rings. <i>Physical Review A</i> , 2020 , 102,	2.6	1

70	Quantum Bubbles in Microgravity. <i>Physical Review Letters</i> , 2020 , 125, 010402	7.4	8
69	Bose-Einstein condensates in rotating ring-shaped lattices: a multimode model. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 025301	1.3	1
68	Controllable splitting dynamics of a doubly quantized vortex in a ring-shaped condensate. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 075301	1.3	0
67	Bose-Einstein condensate confined in a one-dimensional ring stirred with a rotating delta link. <i>Physical Review E</i> , 2020 , 101, 022212	2.4	4
66	Optical control of the density and spin spatial profiles of a planar Bose gas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021 , 54, 08LT01	1.3	4
65	Atomtronic Matter-Wave Lensing. <i>Physical Review Letters</i> , 2021 , 126, 170402	7.4	6
64	Universal nomogram for the atomtronic quantum rotation sensor. <i>Physical Review A</i> , 2021 , 103,	2.6	0
63	Inverse Faraday Effect for Superconducting Condensates. <i>Physical Review Letters</i> , 2021 , 126, 137002	7.4	2
62	Geometric frustration in polygons of polariton condensates creating vortices of varying topological charge. <i>Nature Communications</i> , 2021 , 12, 2120	17.4	5
61	A versatile ring trap for quantum gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021 , 54, 125302	1.3	6
60	Stationary states of Bose-Einstein condensed atoms rotating in an asymmetric ring potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021 , 54, 145303	1.3	0
59	Multi-loop atomic Sagnac interferometry. <i>Scientific Reports</i> , 2021 , 11, 16121	4.9	3
58	Roadmap on Atomtronics: State of the art and perspective. <i>AVS Quantum Science</i> , 2021 , 3, 039201	10.3	13
57	Thermal stability of a quantum rotation sensor. <i>Physical Review A</i> , 2021 , 104,	2.6	0
56	Matter waves, single-mode excitations of the matter-wave field, and the atomtronic transistor oscillator. <i>Physical Review A</i> , 2021 , 104,	2.6	0
55	Cavity Optomechanical Sensing and Manipulation of an Atomic Persistent Current. <i>Physical Review Letters</i> , 2021 , 127, 113601	7.4	0
54	Dynamic high-resolution optical trapping of ultracold atoms. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2021 , 1-101	1.7	2
53	Rotating Atoms with Light. 213-235		3

52	Vortices in Polariton OPO Superfluids. <i>Springer Series in Solid-state Sciences</i> , 2012 , 173-213	0.4	4
51	Transport of ultracold atoms between concentric traps via spatial adiabatic passage. <i>New Journal of Physics</i> , 2016 , 18, 015010	2.9	10
50	Chaotic few-body vortex dynamics in rotating Bose-Einstein condensates. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	3
49	Drude weight increase by orbital and repulsive interactions in fermionic ladders. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
48	Interaction-induced topological properties of two bosons in flat-band systems. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
47	Mathematical theory and numerical methods for Bose-Einstein condensation. <i>Kinetic and Related Models</i> , 2013 , 6, 1-135	2.4	249
46	Superflow decay in a toroidal Bose gas: The effect of quantum and thermal fluctuations. <i>SciPost Physics</i> , 2021 , 11,	6.1	0
45	Superfluidity and Hydrodynamic Topological Excitations of Microcavity Polaritons. <i>Springer Series in Solid-state Sciences</i> , 2012 , 215-232	0.4	
44	Coherently generated of vortex superpositions in Bose-Einstein Condensates and their applications. 2013 ,		
43	Superfluid Instability and Critical Velocity in Two and Three Dimensions. <i>Springer Series in Solid-state Sciences</i> , 2013 , 257-281	0.4	
42	Polariton Quantum Fluids and Devices. <i>Springer Series in Solid-state Sciences</i> , 2013 , 127-155	0.4	
41	From 3D to 1D and Back to 2D. <i>Springer Theses</i> , 2018 , 5-48	0.1	
40	Do Two Symmetry-Breaking Transitions in Photosynthetic Light Harvesting Complexes (PLHC) Form One, Two or More Kibble-Zurek (KZ) Topological Defect(s)?. 2018 , 345-363		
39	Long Time Evolution of a Bose-Einstein Condensate Under Toroidal Trap. <i>Springer Proceedings in Physics</i> , 2019 , 115-120	0.2	
38	Torque of guided light on an atom near an optical nanofiber. <i>Optics Express</i> , 2019 , 27, 15046-15061	3.3	1
37	Phase-dependent light-induced torque. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 3395	1.7	
36	Orbital angular momentum interference of trapped matter waves. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
35	Normal density and moment of inertia of a moving superfluid. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 155303	1.3	

34	Producing flow in racetrack atom circuits by stirring. <i>Physical Review A</i> , 2020 , 102,	2.6	1
33	Matter-wave fractional revivals in a ring waveguide. <i>Physical Review A</i> , 2020 , 102,	2.6	2
32	Ground state of spin-orbit coupled rotating ferromagnetic Bose-Einstein condensate in toroidal trap. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 140301	0.6	1
31	Raman scattering of plane-wave and twisted light off chiral molecular liquids. <i>Low Temperature Physics</i> , 2021 , 47, 959-965	0.7	0
30	Accessing different regimes by tuning the hopping phase of a weakly connected Bose-Einstein condensate within a two-mode model. <i>European Physical Journal D</i> , 2022 , 76, 1	1.3	
29	Spin-orbit-coupled spin-1 Bose-Einstein condensates in a toroidal trap: Even-petal-number necklacelike state and persistent flow. <i>Physical Review A</i> , 2022 , 105,	2.6	0
28	Influence of a nonuniform thermal quench and circular polarized radiation on spontaneous current generation in superconducting rings. <i>Physical Review B</i> , 2022 , 105,	3.3	0
27	Spin-orbit-coupled Bose gases with nonlocal Rydberg interactions held under a toroidal trap. <i>Physical Review A</i> , 2022 , 105,	2.6	1
26	Temperature-Dependent Periodicity of the Persistent Current in Strongly Interacting Systems.. <i>Physical Review Letters</i> , 2022 , 128, 096801	7.4	0
25	Droplet-superfluid compounds in binary bosonic mixtures. <i>Physical Review A</i> , 2022 , 105,	2.6	0
24	Persistent Currents in Rings of Ultracold Fermionic Atoms.. <i>Physical Review Letters</i> , 2022 , 128, 150401	7.4	0
23	Detecting entrainment in Fermi-Bose mixtures. <i>Physical Review A</i> , 2022 , 105,	2.6	0
22	Ground States of the SU(3) Spin-Orbit Coupled Spin-1 Bose-Einstein Condensate in a Rotating Annular Potential. <i>Journal of Low Temperature Physics</i> ,	1.3	0
21	Implementation of an atomtronic SQUID in a strongly confined toroidal condensate. <i>Physical Review Research</i> , 2022 , 4,	3.9	0
20	Moiré-superlattice structures in a rotating two-component Bose-Einstein condensates. <i>Results in Physics</i> , 2022 , 39, 105780	3.7	
19	Raman-induced spin-orbit-coupled and spin-tensor-momentum-coupled spin-1 Bose-Einstein condensates in a toroidal trap. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022 , 128330	2.3	
18	Transfer of angular momentum of guided light to an atom with an electric quadrupole transition near an optical nanofiber. 2022 , 106,		0
17	Toward the Light-Operated Superconducting Devices: Circularly Polarized Radiation Manipulates the Current-Carrying States in Superconducting Rings. 2200054		0

- 16 Many-Body State and Dynamic Behaviour of the Pair-Correlation Function of a Small Bose-Einstein Condensate Confined in a Ring Potential. ○
- 15 Generation of high-winding-number superfluid circulation in Bose-Einstein condensates. **2022**, 106, ○
- 14 Structure transitions in arrays of point vortices upon free space propagation. ○
- 13 Spontaneous symmetry breaking in coupled ring resonators with linear gain and nonlinear loss. **2019**, 48, ○
- 12 All-optical generation of Abrikosov vortices by the inverse Faraday effect. **2022**, 106, ○
- 11 Hydrodynamic signatures and spectral properties of the quantum vortex. **2022**, 106, ○
- 10 Parametric triggering of vortices in toroidally trapped rotating Bose-Einstein condensates. **2023**, 604, 1354180 ○
- 9 Vortex-ring quantum droplets in a radially-periodic potential. **2022**, 24, 123026 1
- 8 Persistent current oscillations in a double-ring quantum gas. **2022**, 4, ○
- 7 Loading a quantum gas from a hybrid dimple trap to a shell trap. **2022**, 132, 214401 ○
- 6 Imprinting Persistent Currents in Tunable Fermionic Rings. **2022**, 12, ○
- 5 Two-component three-dimensional atomic Bose-Einstein condensates supporting complex stable patterns. **2023**, 107, ○
- 4 Controlling superfluid flows using dissipative impurities. **2023**, 14, ○
- 3 Pump-probe cavity optomechanics with a rotating atomic superfluid in a ring. **2023**, 107, ○
- 2 Drude weights in one-dimensional systems with a single defect. **2023**, 107, ○
- 1 On the nonlinear Schrödinger equation with a toroidal-shaped trap in the strong confinement regime. **2023**, 36, 2741-2791 ○