

# Immanuel Bloch

## 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.

162  
papers

37,287  
citations

84  
h-index

188  
g-index

188  
ext. papers

43,234  
ext. citations

16.1  
avg, IF

7.61  
L-index

#	Paper	IF	Citations
162	Realizing Distance-Selective Interactions in a Rydberg-Dressed Atom Array.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 113602	7.4	0
161	Suppression of Unitary Three-Body Loss in a Degenerate Bose-Fermi Mixture.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 153401	7.4	1
160	Quantum gas microscopy of Kardar-Parisi-Zhang superdiffusion.. <i>Science</i> , <b>2022</b> , 376, 716-720	33.3	3
159	Efficient conversion of closed-channel-dominated Feshbach molecules of Na <sub>23</sub> K <sub>40</sub> to their absolute ground state. <i>Physical Review A</i> , <b>2021</b> , 104,	2.6	2
158	Microscopic electronic structure tomography of Rydberg macrodimers. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	6
157	Observing non-ergodicity due to kinetic constraints in tilted Fermi-Hubbard chains. <i>Nature Communications</i> , <b>2021</b> , 12, 4490	17.4	16
156	Crossed optical cavities with large mode diameters. <i>Optics Letters</i> , <b>2021</b> , 46, 250-253	3	2
155	Collisions of ultracold molecules in bright and dark optical dipole traps. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	11
154	Microscopic evolution of doped Mott insulators from polaronic metal to Fermi liquid. <i>Science</i> , <b>2021</b> , 374, 82-86	33.3	4
153	State-Dependent Optical Lattices for the Strontium Optical Qubit. <i>Physical Review Letters</i> , <b>2020</b> , 124, 203201	7.4	17
152	Floquet Prethermalization in a Bose-Hubbard System. <i>Physical Review X</i> , <b>2020</b> , 10,	9.1	30
151	Realization of an anomalous Floquet topological system with ultracold atoms. <i>Nature Physics</i> , <b>2020</b> , 16, 1058-1063	16.2	44
150	Robust Bilayer Charge Pumping for Spin- and Density-Resolved Quantum Gas Microscopy. <i>Physical Review Letters</i> , <b>2020</b> , 125, 010403	7.4	16
149	Parametric Instabilities of Interacting Bosons in Periodically Driven 1D Optical Lattices. <i>Physical Review X</i> , <b>2020</b> , 10,	9.1	6
148	Time-resolved observation of spin-charge deconfinement in fermionic Hubbard chains. <i>Science</i> , <b>2020</b> , 367, 186-189	33.3	35
147	Tune-Out and Magic Wavelengths for Ground-State <sup>23</sup> Na <sup>40</sup> K Molecules. <i>Physical Review Letters</i> , <b>2020</b> , 125, 023201	7.4	10
146	A subradiant optical mirror formed by a single structured atomic layer. <i>Nature</i> , <b>2020</b> , 583, 369-374	50.4	67

145	Many-Body Delocalization in the Presence of a Quantum Bath. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	24
144	Colloquium: Many-body localization, thermalization, and entanglement. <i>Reviews of Modern Physics</i> , <b>2019</b> , 91,	40.5	420
143	Quantum gas microscopy of Rydberg macrodimers. <i>Science</i> , <b>2019</b> , 364, 664-667	33.3	25
142	Observation of Coherent Multiorbital Polarons in a Two-Dimensional Fermi Gas. <i>Physical Review Letters</i> , <b>2019</b> , 122, 193604	7.4	23
141	Observation of Many-Body Localization in a One-Dimensional System with a Single-Particle Mobility Edge. <i>Physical Review Letters</i> , <b>2019</b> , 122, 170403	7.4	70
140	Imaging magnetic polarons in the doped Fermi-Hubbard model. <i>Nature</i> , <b>2019</b> , 572, 358-362	50.4	48
139	Fast and dense magneto-optical traps for strontium. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	9
138	Floquet approach to Z2 lattice gauge theories with ultracold atoms in optical lattices. <i>Nature Physics</i> , <b>2019</b> , 15, 1168-1173	16.2	95
137	Direct observation of incommensurate magnetism in Hubbard chains. <i>Nature</i> , <b>2019</b> , 565, 56-60	50.4	38
136	Single-Particle Mobility Edge in a One-Dimensional Quasiperiodic Optical Lattice. <i>Physical Review Letters</i> , <b>2018</b> , 120, 160404	7.4	92
135	Localized Magnetic Moments with Tunable Spin Exchange in a Gas of Ultracold Fermions. <i>Physical Review Letters</i> , <b>2018</b> , 120, 143601	7.4	62
134	Modeling the adiabatic creation of ultracold polar $^{23}\text{Na}^{40}\text{K}$ molecules. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	51
133	Exploring 4D quantum Hall physics with a 2D topological charge pump. <i>Nature</i> , <b>2018</b> , 553, 55-58	50.4	181
132	The quantum technologies roadmap: a European community view. <i>New Journal of Physics</i> , <b>2018</b> , 20, 080201	16.2	188
131	Extending Rotational Coherence of Interacting Polar Molecules in a Spin-Decoupled Magic Trap. <i>Physical Review Letters</i> , <b>2018</b> , 121, 253401	7.4	35
130	Nonequilibrium Mass Transport in the 1D Fermi-Hubbard Model. <i>Physical Review Letters</i> , <b>2018</b> , 121, 130402	7.4	30
129	Periodically driving a many-body localized quantum system. <i>Nature Physics</i> , <b>2017</b> , 13, 460-464	16.2	154
128	Signatures of Many-Body Localization in a Controlled Open Quantum System. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	115

127	Revealing hidden antiferromagnetic correlations in doped Hubbard chains via string correlators. <i>Science</i> , <b>2017</b> , 357, 484-487	33.3	94
126	Quantum simulations with ultracold atoms in optical lattices. <i>Science</i> , <b>2017</b> , 357, 995-1001	33.3	413
125	Coherent Many-Body Spin Dynamics in a Long-Range Interacting Ising Chain. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	98
124	Interaction Dependent Heating and Atom Loss in a Periodically Driven Optical Lattice. <i>Physical Review Letters</i> , <b>2017</b> , 119, 200402	7.4	59
123	Tunable spin-orbit coupling for ultracold atoms in two-dimensional optical lattices. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	23
122	Observation of Slow Dynamics near the Many-Body Localization Transition in One-Dimensional Quasiperiodic Systems. <i>Physical Review Letters</i> , <b>2017</b> , 119, 260401	7.4	127
121	Probing Slow Relaxation and Many-Body Localization in Two-Dimensional Quasiperiodic Systems. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	118
120	Spin- and density-resolved microscopy of antiferromagnetic correlations in Fermi-Hubbard chains. <i>Science</i> , <b>2016</b> , 353, 1257-60	33.3	208
119	Coupling Identical one-dimensional Many-Body Localized Systems. <i>Physical Review Letters</i> , <b>2016</b> , 116, 140401	7.4	237
118	Direct Probing of the Mott Crossover in the SU(N) Fermi-Hubbard Model. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	80
117	Spin Pumping and Measurement of Spin Currents in Optical Superlattices. <i>Physical Review Letters</i> , <b>2016</b> , 117, 170405	7.4	39
116	Exploring the many-body localization transition in two dimensions. <i>Science</i> , <b>2016</b> , 352, 1547-52	33.3	499
115	A Thouless quantum pump with ultracold bosonic atoms in an optical superlattice. <i>Nature Physics</i> , <b>2016</b> , 12, 350-354	16.2	277
114	Optimal control of complex atomic quantum systems. <i>Scientific Reports</i> , <b>2016</b> , 6, 34187	4.9	67
113	Bloch state tomography using Wilson lines. <i>Science</i> , <b>2016</b> , 352, 1094-7	33.3	100
112	Many-body interferometry of a Rydberg-dressed spin lattice. <i>Nature Physics</i> , <b>2016</b> , 12, 1095-1099	16.2	182
111	Crystallization in Ising quantum magnets. <i>Science</i> , <b>2015</b> , 347, 1455-8	33.3	196
110	Emergence of coherence and the dynamics of quantum phase transitions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3641-6	11.5	114

109	QUANTUM GASES. Observation of many-body localization of interacting fermions in a quasirandom optical lattice. <i>Science</i> , <b>2015</b> , 349, 842-5	33.3	891
108	Measuring the Chern number of Hofstadter bands with ultracold bosonic atoms. <i>Nature Physics</i> , <b>2015</b> , 11, 162-166	16.2	622
107	An Aharonov-Bohm interferometer for determining Bloch band topology. <i>Science</i> , <b>2015</b> , 347, 288-92	33.3	169
106	MICROSCOPY OF MANY-BODY STATES IN OPTICAL LATTICES. <i>Annual Review of Cold Atoms and Molecules</i> , <b>2015</b> , 181-199		6
105	Spatially Resolved Detection of a Spin-Entanglement Wave in a Bose-Hubbard Chain. <i>Physical Review Letters</i> , <b>2015</b> , 115, 035302	7.4	81
104	Dynamical Quasicondensation of Hard-Core Bosons at Finite Momenta. <i>Physical Review Letters</i> , <b>2015</b> , 115, 175301	7.4	61
103	Microscopic Observation of Pauli Blocking in Degenerate Fermionic Lattice Gases. <i>Physical Review Letters</i> , <b>2015</b> , 115, 263001	7.4	126
102	Observation of an Orbital Interaction-Induced Feshbach Resonance in $(173)\text{Yb}$ . <i>Physical Review Letters</i> , <b>2015</b> , 115, 265302	7.4	113
101	Microscopic Characterization of Scalable Coherent Rydberg Superatoms. <i>Physical Review X</i> , <b>2015</b> , 5,	9.1	80
100	Designing frustrated quantum magnets with laser-dressed Rydberg atoms. <i>Physical Review Letters</i> , <b>2015</b> , 114, 173002	7.4	118
99	Far-from-equilibrium spin transport in Heisenberg quantum magnets. <i>Physical Review Letters</i> , <b>2014</b> , 113, 147205	7.4	128
98	Observation of two-orbital spin-exchange interactions with ultracold $\text{SU}(N)$ -symmetric fermions. <i>Nature Physics</i> , <b>2014</b> , 10, 779-784	16.2	227
97	Observation of chiral currents with ultracold atoms in bosonic ladders. <i>Nature Physics</i> , <b>2014</b> , 10, 588-593	16.2	292
96	Probing and Controlling Quantum Matter Using Ultracold Quantum Gases in Optical Lattices <b>2014</b> , 31-63		1
95	Single-site- and single-atom-resolved measurement of correlation functions. <i>Applied Physics B: Lasers and Optics</i> , <b>2013</b> , 113, 27-39	1.9	48
94	Microscopic observation of magnon bound states and their dynamics. <i>Nature</i> , <b>2013</b> , 502, 76-9	50.4	279
93	Realization of the Hofstadter Hamiltonian with ultracold atoms in optical lattices. <i>Physical Review Letters</i> , <b>2013</b> , 111, 185301	7.4	871
92	Direct measurement of the Zak phase in topological Bloch bands. <i>Nature Physics</i> , <b>2013</b> , 9, 795-800	16.2	545

91	Quantum dynamics of a mobile spin impurity. <i>Nature Physics</i> , <b>2013</b> , 9, 235-241	16.2	348
90	Experimental realization of strong effective magnetic fields in optical superlattice potentials. <i>Applied Physics B: Lasers and Optics</i> , <b>2013</b> , 113, 1-11	1.9	42
89	Expansion dynamics of interacting bosons in homogeneous lattices in one and two dimensions. <i>Physical Review Letters</i> , <b>2013</b> , 110, 205301	7.4	202
88	Probing real-space and time-resolved correlation functions with many-body Ramsey interferometry. <i>Physical Review Letters</i> , <b>2013</b> , 111, 147205	7.4	77
87	Interferometric approach to measuring band topology in 2D optical lattices. <i>Physical Review Letters</i> , <b>2013</b> , 110, 165304	7.4	84
86	Negative absolute temperature for motional degrees of freedom. <i>Science</i> , <b>2013</b> , 339, 52-5	33.3	148
85	Fermionic transport and out-of-equilibrium dynamics in a homogeneous Hubbard model with ultracold atoms. <i>Nature Physics</i> , <b>2012</b> , 8, 213-218	16.2	289
84	Light-cone-like spreading of correlations in a quantum many-body system. <i>Nature</i> , <b>2012</b> , 481, 484-7	50.4	533
83	Observation of spatially ordered structures in a two-dimensional Rydberg gas. <i>Nature</i> , <b>2012</b> , 491, 87-91	50.4	372
82	Ultracold Atoms and Molecules in Optical Lattices. <i>Contemporary Concepts of Condensed Matter Science</i> , <b>2012</b> , 5, 121-156		
81	Probing the relaxation towards equilibrium in an isolated strongly correlated one-dimensional Bose gas. <i>Nature Physics</i> , <b>2012</b> , 8, 325-330	16.2	639
80	Quantum simulations with ultracold quantum gases. <i>Nature Physics</i> , <b>2012</b> , 8, 267-276	16.2	1218
79	The Higgs Amplitude mode at the two-dimensional superfluid/Mott insulator transition. <i>Nature</i> , <b>2012</b> , 487, 454-8	50.4	223
78	Experimental realization of plaquette resonating valence-bond states with ultracold atoms in optical superlattices. <i>Physical Review Letters</i> , <b>2012</b> , 108, 205301	7.4	63
77	Landau-Zener sweeps and sudden quenches in coupled Bose-Hubbard chains. <i>Physical Review Letters</i> , <b>2011</b> , 106, 155302	7.4	28
76	Many-body Landau-Zener dynamics in coupled one-dimensional Bose liquids. <i>Nature Physics</i> , <b>2011</b> , 7, 61-67	16.2	114
75	Single-spin addressing in an atomic Mott insulator. <i>Nature</i> , <b>2011</b> , 471, 319-24	50.4	506
74	Observation of correlated particle-hole pairs and string order in low-dimensional Mott insulators. <i>Science</i> , <b>2011</b> , 334, 200-3	33.3	210

73	Coherent light scattering from a two-dimensional Mott insulator. <i>Physical Review Letters</i> , <b>2011</b> , 106, 215301	7.4	44
72	Experimental realization of strong effective magnetic fields in an optical lattice. <i>Physical Review Letters</i> , <b>2011</b> , 107, 255301	7.4	53 <sup>1</sup>
71	Controlling correlated tunneling and superexchange interactions with ac-driven optical lattices. <i>Physical Review Letters</i> , <b>2011</b> , 107, 210405	7.4	13 <sup>1</sup>
70	Effect of interactions on harmonically confined Bose-Fermi mixtures in optical lattices. <i>Physical Review Letters</i> , <b>2011</b> , 106, 155301	7.4	22
69	Coherent interaction of a single fermion with a small bosonic field. <i>Physical Review Letters</i> , <b>2011</b> , 106, 115305	7.4	66
68	Time-resolved observation of coherent multi-body interactions in quantum phase revivals. <i>Nature</i> , <b>2010</b> , 465, 197-201	50.4	227
67	Single-atom-resolved fluorescence imaging of an atomic Mott insulator. <i>Nature</i> , <b>2010</b> , 467, 68-72	50.4	90 <sup>8</sup>
66	Suppression of the critical temperature for superfluidity near the Mott transition. <i>Nature Physics</i> , <b>2010</b> , 6, 998-1004	16.2	153
65	Controlling and detecting spin correlations of ultracold atoms in optical lattices. <i>Physical Review Letters</i> , <b>2010</b> , 105, 265303	7.4	82
64	Anomalous expansion of attractively interacting fermionic atoms in an optical lattice. <i>Science</i> , <b>2010</b> , 327, 1621-4	33.3	72
63	Exploring strongly correlated quantum many-body systems with ultracold atoms in optical lattices. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 530-536	1.3	3
62	Electromagnetically induced transparency and light storage in an atomic Mott insulator. <i>Physical Review Letters</i> , <b>2009</b> , 103, 033003	7.4	127
61	Role of interactions in 87Rb-40K Bose-Fermi mixtures in a 3D optical lattice. <i>Physical Review Letters</i> , <b>2009</b> , 102, 030408	7.4	117
60	Quantum coherence and entanglement with ultracold atoms in optical lattices. <i>Nature</i> , <b>2008</b> , 453, 1016-1020	30.4	247
59	Quantum spin dynamics of mode-squeezed Luttinger liquids in two-component atomic gases. <i>Physical Review Letters</i> , <b>2008</b> , 100, 140401	7.4	97
58	Expansion of a quantum gas released from an optical lattice. <i>Physical Review Letters</i> , <b>2008</b> , 101, 155303	7.4	92
57	Many-body physics with ultracold gases. <i>Reviews of Modern Physics</i> , <b>2008</b> , 80, 885-964	40.5	538 <sup>1</sup>
56	Time-resolved observation and control of superexchange interactions with ultracold atoms in optical lattices. <i>Science</i> , <b>2008</b> , 319, 295-9	33.3	495

55	Quantum gases. <i>Science</i> , <b>2008</b> , 319, 1202-3	33.3	56
54	Metallic and insulating phases of repulsively interacting fermions in a 3D optical lattice. <i>Science</i> , <b>2008</b> , 322, 1520-5	33.3	560
53	Quantum many-body dynamics of coupled double-well superlattices. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	48
52	Minimum instances of topological matter in an optical plaquette. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	34
51	Achieving the Néel state in an optical lattice. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	37
50	Counting atoms using interaction blockade in an optical superlattice. <i>Physical Review Letters</i> , <b>2008</b> , 101, 090404	7.4	119
49	Adiabatic loading of a Bose-Einstein condensate in a 3D optical lattice. <i>Journal of Modern Optics</i> , <b>2007</b> , 54, 735-743	1.1	33
48	Measurement of meson production in scattering at low. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2007</b> , 649, 111-121	4.2	7
47	Bose-Einstein correlations of charged and neutral kaons in deep inelastic scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2007</b> , 652, 1-12	4.2	9
46	Direct observation of second-order atom tunnelling. <i>Nature</i> , <b>2007</b> , 448, 1029-32	50.4	463
45	Preparation and detection of magnetic quantum phases in optical superlattices. <i>Physical Review Letters</i> , <b>2007</b> , 99, 140601	7.4	36
44	State preparation and dynamics of ultracold atoms in higher lattice orbitals. <i>Physical Review Letters</i> , <b>2007</b> , 99, 200405	7.4	151
43	Coherent and incoherent spectral broadening in a photonic crystal fiber. <i>Optics Letters</i> , <b>2007</b> , 32, 1767-93		3
42	Probing number squeezing of ultracold atoms across the superfluid-Mott insulator transition. <i>Physical Review Letters</i> , <b>2006</b> , 96, 090401	7.4	89
41	Formation of spatial shell structure in the superfluid to Mott insulator transition. <i>Physical Review Letters</i> , <b>2006</b> , 97, 060403	7.4	169
40	Resonant control of spin dynamics in ultracold quantum gases by microwave dressing. <i>Physical Review A</i> , <b>2006</b> , 73,	2.6	170
39	Precision measurement of spin-dependent interaction strengths for spin-1 and spin-287Rb atoms. <i>New Journal of Physics</i> , <b>2006</b> , 8, 152-152	2.9	135
38	Quantum information processing in optical lattices and magnetic microtraps. <i>Fortschritte Der Physik</i> , <b>2006</b> , 54, 702-718	5.7	84



37	Free fermion antibunching in a degenerate atomic Fermi gas released from an optical lattice. <i>Nature</i> , <b>2006</b> , 444, 733-6	50.4	200
36	Interference pattern and visibility of a Mott insulator. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	110
35	Ultracold quantum gases in optical lattices. <i>Nature Physics</i> , <b>2005</b> , 1, 23-30	16.2	907
34	Spatial quantum noise interferometry in expanding ultracold atom clouds. <i>Nature</i> , <b>2005</b> , 434, 481-4	50.4	433
33	Exploring Quantum Matter with Ultracold Atoms in Optical Lattices. <i>Advances in Atomic, Molecular and Optical Physics</i> , <b>2005</b> , 52, 1-47	1.7	36
32	Exploring quantum matter with ultracold atoms in optical lattices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2005</b> , 38, S629-S643	1.3	84
31	Coherent collisional spin dynamics in optical lattices. <i>Physical Review Letters</i> , <b>2005</b> , 95, 190405	7.4	129
30	Phase coherence of an atomic Mott insulator. <i>Physical Review Letters</i> , <b>2005</b> , 95, 050404	7.4	143
29	Entanglement interferometry for precision measurement of atomic scattering properties. <i>Physical Review Letters</i> , <b>2004</b> , 92, 160406	7.4	101
28	Tonks-Girardeau gas of ultracold atoms in an optical lattice. <i>Nature</i> , <b>2004</b> , 429, 277-81	50.4	1259
27	Bose-Einstein correlations in one and two dimensions in deep inelastic scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2004</b> , 583, 231-246	4.2	10
26	State selective production of molecules in optical lattices. <i>Physical Review Letters</i> , <b>2004</b> , 93, 073002	7.4	110
25	Quantum gases in optical lattices. <i>Physics World</i> , <b>2004</b> , 17, 25-29	0.5	55
24	Coherent cold collisions with neutral atoms in optical lattices. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2003</b> , 361, 1409-16	3	4
23	Quantum phase transition from a superfluid to a Mott insulator in an ultracold gas of atoms. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 329-333, 11-12	2.8	12
22	Controlled collisions for multi-particle entanglement of optically trapped atoms. <i>Nature</i> , <b>2003</b> , 425, 937-40	50.4	616
21	Coherent transport of neutral atoms in spin-dependent optical lattice potentials. <i>Physical Review Letters</i> , <b>2003</b> , 91, 010407	7.4	331
20	Perfekte Ordnung am Nullpunkt. <i>Physik in Unserer Zeit</i> , <b>2002</b> , 33, 51-51	0.1	1

19	Collapse and revival of the matter wave field of a Bose-Einstein condensate. <i>Nature</i> , <b>2002</b> , 419, 51-4	50.4	943
18	Quantum phase transition from a superfluid to a Mott insulator in a gas of ultracold atoms. <i>Nature</i> , <b>2002</b> , 415, 39-44	50.4	4343
17	Generating And Manipulating Atom Laser Beams <b>2002</b> , 117-128		
16	From Diode Laser to Atom Laser <b>2002</b> , 275-280		
15	Bose-Einstein condensates in 1D- and 2D optical lattices. <i>Applied Physics B: Lasers and Optics</i> , <b>2001</b> , 73, 769-772	1.9	60
14	Optics with an atom laser beam. <i>Physical Review Letters</i> , <b>2001</b> , 87, 030401	7.4	63
13	Magnetic transport of trapped cold atoms over a large distance. <i>Physical Review A</i> , <b>2001</b> , 63,	2.6	100
12	Sympathetic cooling of 85Rb and 87Rb. <i>Physical Review A</i> , <b>2001</b> , 64,	2.6	55
11	Exploring phase coherence in a 2D lattice of Bose-Einstein condensates. <i>Physical Review Letters</i> , <b>2001</b> , 87, 160405	7.4	509
10	Measurement of the spatial coherence of a trapped Bose gas at the phase transition. <i>Nature</i> , <b>2000</b> , 403, 166-70	50.4	220
9	Probing first-order spatial coherence of a Bose-Einstein condensate. <i>Journal of Modern Optics</i> , <b>2000</b> , 47, 2725-2732	1.1	9
8	Atomlaser: Aus Bose-Einstein-Kondensaten lassen sich kohärente Materiewellen auskoppeln. <i>Physik Journal</i> , <b>2000</b> , 56, 47-50		6
7	Atom Laser with a cw Output Coupler. <i>Physical Review Letters</i> , <b>1999</b> , 82, 3008-3011	7.4	413
6	Bose-Einstein condensation in a quadrupole-Ioffe-configuration trap. <i>Physical Review A</i> , <b>1998</b> , 58, R2664-R2667	2.6	186
5	Atom optics with permanent magnetic components <b>1997</b> ,		6
4	Stimulated focusing and deflection of an atomic beam using picosecond laser pulses. <i>Physical Review A</i> , <b>1997</b> , 56, R3354-R3357	2.6	29
3	Coulomb Functions for Reactions of Protons and Alpha-Particles with the Lighter Nuclei. <i>Reviews of Modern Physics</i> , <b>1951</b> , 23, 147-182	40.5	158
2	Probing first-order spatial coherence of a Bose-Einstein condensate		1

- 1 Probing and Controlling Strongly Correlated Quantum Many-Body Systems Using Ultracold Quantum Gases 253-273