

# Peter Schmelcher

## List of Publications by Year in descending order

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483  
papers

10,058  
citations

43973

48  
h-index

95083

68  
g-index

486  
all docs

486  
docs citations

486  
times ranked

2855  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intra- and interband excitations induced residue decay of the Bose polaron in a one-dimensional double-well. <i>New Journal of Physics</i> , 2022, 24, 033004.	1.2	3
2	Pattern Formation in One-Dimensional Polaron Systems and Temporal Orthogonality Catastrophe. <i>Atoms</i> , 2022, 10, 3.	0.7	10
3	On-demand generation of dark-bright soliton trains in Bose-Einstein condensates. <i>Physical Review A</i> , 2022, 105, .	1.0	2
4	Multiphoton absorption and Rabi oscillations in armchair graphene nanoribbons. <i>Physical Review B</i> , 2022, 105, .	1.1	1
5	Breathing dynamics of the few-body Bose polaron in a species-selective harmonic trap. <i>Physical Review A</i> , 2022, 105, .	1.0	0
6	Driven toroidal helix as a generalization of the Kapitza pendulum. <i>Physical Review E</i> , 2022, 105, .	0.8	1
7	Theoretical and numerical evidence for the potential realization of the Peregrine soliton in repulsive two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2022, 105, .	1.0	7
8	Interaction effects of pseudospin-based magnetic monopoles and kinks in a doped dipolar superlattice gas. <i>Physical Review A</i> , 2022, 105, .	1.0	1
9	Counterflow dynamics of two correlated impurities immersed in a bosonic gas. <i>Physical Review A</i> , 2022, 105, .	1.0	5
10	Superfluid vortex multipoles and soliton stripes on a torus. <i>Physical Review A</i> , 2022, 105, .	1.0	1
11	Superexponential interactions and the dynamical unfolding of confined degrees of freedom. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 95, 105599.	1.7	2
12	Phase diagram, stability and magnetic properties of nonlinear excitations in spinor Bose-Einstein condensates. <i>New Journal of Physics</i> , 2021, 23, 013015.	1.2	23
13	On-demand generation of dark soliton trains in Bose-Einstein condensates. <i>Physical Review A</i> , 2021, 103, .	1.0	13
14	Entangling Lattice-Trapped Bosons with a Free Impurity: Impact on Stationary and Dynamical Properties. <i>Entropy</i> , 2021, 23, 290.	1.1	5
15	Pattern formation of correlated impurities subjected to an impurity-medium interaction pulse. <i>Physical Review A</i> , 2021, 103, .	1.0	5
16	Electric-field-induced wave-packet dynamics and geometrical rearrangement of trilobite Rydberg molecules. <i>Physical Review A</i> , 2021, 103, .	1.0	9
17	Spectral properties of a three-body atom-ion hybrid system. <i>Physical Review A</i> , 2021, 103, .	1.0	4
18	Symmetry-induced nonlocal divergence-free currents in two-dimensional quantum scattering. <i>Physical Review A</i> , 2021, 103, .	1.0	1

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19	Bosonic quantum dynamics following colliding potential wells. <i>Physical Review A</i> , 2021, 103, .	1.0	1
20	Radiofrequency spectroscopy of one-dimensional trapped Bose polarons: crossover from the adiabatic to the diabatic regime. <i>New Journal of Physics</i> , 2021, 23, 043051.	1.2	11
21	Many-body collisional dynamics of impurities injected into a double-well trapped Bose-Einstein condensate. <i>Physical Review Research</i> , 2021, 3, .	1.3	8
22	External-field-induced dynamics of a charged particle on a closed helix. <i>Physical Review E</i> , 2021, 103, 052217.	0.8	3
23	Latent Symmetry Induced Degeneracies. <i>Physical Review Letters</i> , 2021, 126, 180601.	2.9	11
24	Many-body effects in models with superexponential interactions. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 97, 105760.	1.7	1
25	Flat bands by latent symmetry. <i>Physical Review B</i> , 2021, 104, .	1.1	17
26	Synthetic Dimension-Induced Conical Intersections in Rydberg Molecules. <i>Physical Review Letters</i> , 2021, 127, 023003.	2.9	13
27	Cospectrality preserving graph modifications and eigenvector properties via walk equivalence of vertices. <i>Linear Algebra and Its Applications</i> , 2021, 624, 53-86.	0.4	7
28	Impurity-induced quantum chaos for an ultracold bosonic ensemble in a double well. <i>Physical Review A</i> , 2021, 104, .	1.0	7
29	Few-body correlations in two-dimensional Bose and Fermi ultracold mixtures. <i>New Journal of Physics</i> , 2021, 23, 093022.	1.2	11
30	Polarons and their induced interactions in highly imbalanced triple mixtures. <i>Physical Review A</i> , 2021, 104, .	1.0	11
31	Spontaneous Formation of Star-Shaped Surface Patterns in a Driven Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2021, 127, 113001.	2.9	16
32	Statistical mechanics of one-dimensional quantum droplets. <i>Physical Review A</i> , 2021, 104, .	1.0	12
33	Spectral properties of confining superexponential potentials. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 475301.	0.7	0
34	Formation and quench of homonuclear and heteronuclear quantum droplets in one dimension. <i>Physical Review Research</i> , 2021, 3, .	1.3	19
35	Multiphoton intersubband transitions in an armchair graphene nanoribbon. <i>Journal of Physics: Conference Series</i> , 2021, 2103, 012130.	0.3	0
36	Ultralong-range Rydberg molecules. <i>Molecular Physics</i> , 2020, 118, .	0.8	27

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37	Nonlinear dynamics and energy transfer for two rotating dipoles in an external field: A complete dimensional analysis. Communications in Nonlinear Science and Numerical Simulation, 2020, 82, 105049.	1.7	0
38	Quantum superexponential oscillator. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 305301.	0.7	3
39	Controlling vortical motion of particles in two-dimensional driven superlattices. Physical Review B, 2020, 102, .	1.1	1
40	Phase separation of a Bose-Bose mixture: Impact of the trap and particle-number imbalance. Physical Review A, 2020, 102, .	1.0	6
41	Observation and analysis of multiple dark-antidark solitons in two-component Bose-Einstein condensates. Physical Review A, 2020, 102, .	1.0	27
42	Asymptotic population imbalance of an ultracold bosonic ensemble in a driven double well. Physical Review A, 2020, 102, .	1.0	5
43	Stationary and dynamical properties of two harmonically trapped bosons in the crossover from two dimensions to one. Physical Review A, 2020, 102, .	1.0	13
44	Parametrically excited star-shaped patterns at the interface of binary Bose-Einstein condensates. Physical Review A, 2020, 102, .	1.0	27
45	Tunable order of helically confined charges. Physical Review E, 2020, 102, 012147.	0.8	4
46	Induced interactions and quench dynamics of bosonic impurities immersed in a Fermi sea. Physical Review A, 2020, 102, .	1.0	14
47	Rydberg polyatomic molecules: Electronic structure and experimental proposal for their creation. Journal of Physics: Conference Series, 2020, 1412, 122002.	0.3	0
48	Correlated dynamics of fermionic impurities induced by the counterflow of an ensemble of fermions. Physical Review A, 2020, 101, .	1.0	17
49	Observation of Local Symmetry in a Photonic System. Laser and Photonics Reviews, 2020, 14, 1900222.	4.4	2
50	Multiple Current Reversals Using Superimposed Driven Lattices. Applied Sciences (Switzerland), 2020, 10, 1357.	1.3	2
51	Designing pretty good state transfer via isospectral reductions. Physical Review A, 2020, 101, .	1.0	7
52	Many-body effects on second-order phase transitions in spinor Bose-Einstein condensates and breathing dynamics. Physical Review A, 2020, 102, .	1.0	8
53	A protocol to realize triatomic ultralong range Rydberg molecules in an ultracold KRb gas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 074002.	0.6	2
54	Triatomic butterfly molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 084001.	0.6	3

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55	Entanglement-assisted tunneling dynamics of impurities in a double well immersed in a bath of lattice trapped bosons. <i>New Journal of Physics</i> , 2020, 22, 023027.	1.2	19
56	Many-body quantum dynamics and induced correlations of Bose polarons. <i>New Journal of Physics</i> , 2020, 22, 043007.	1.2	33
57	Pulse- and continuously driven many-body quantum dynamics of bosonic impurities in a Bose-Einstein condensate. <i>Physical Review A</i> , 2020, 101, .	1.0	13
58	Superexponential self-interacting oscillator. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 075701.	0.7	3
59	Transfer efficiency enhancement and eigenstate properties in locally symmetric disordered finite chains. <i>Annals of Physics</i> , 2020, 418, 168163.	1.0	2
60	Interplay of phase separation and itinerant magnetism for correlated few fermions in a double-well. <i>New Journal of Physics</i> , 2020, 22, 063058.	1.2	7
61	An ultracold heavy Rydberg system formed from ultra-long-range molecules bound in a stairwell potential. <i>New Journal of Physics</i> , 2020, 22, 063060.	1.2	9
62	Doping a lattice-trapped bosonic species with impurities: from ground state properties to correlated tunneling dynamics. <i>New Journal of Physics</i> , 2020, 22, 083003.	1.2	15
63	Observation of spin-orbit-dependent electron scattering using long-range Rydberg molecules. <i>Physical Review Research</i> , 2020, 2, .	1.3	12
64	Controlling transport of underdamped particles in two-dimensional driven Bravais lattices. <i>Physical Review Research</i> , 2020, 2, .	1.3	1
65	Induced correlations between impurities in a one-dimensional quenched Bose gas. <i>Physical Review Research</i> , 2020, 2, .	1.3	30
66	Pump-probe spectroscopy of Bose polarons: Dynamical formation and coherence. <i>Physical Review Research</i> , 2020, 2, .	1.3	18
67	Repulsive Fermi polarons and their induced interactions in binary mixtures of ultracold atoms. <i>New Journal of Physics</i> , 2019, 21, 043032.	1.2	47
68	Probing ferromagnetic order in few-fermion correlated spin-flip dynamics. <i>New Journal of Physics</i> , 2019, 21, 053005.	1.2	25
69	Precision Spectroscopy of Negative-Ion Resonances in Ultralong-Range Rydberg Molecules. <i>Physical Review Letters</i> , 2019, 123, 073003.	2.9	33
70	Spontaneous generation of dark-bright and dark-antidark solitons upon quenching a particle-imbalanced bosonic mixture. <i>Physical Review A</i> , 2019, 100, .	1.0	19
71	Effective approach to impurity dynamics in one-dimensional trapped Bose gases. <i>Physical Review A</i> , 2019, 100, .	1.0	46
72	Controlled generation of dark-bright soliton complexes in two-component and spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2019, 100, .	1.0	12

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73	Dissipative correlated dynamics of a moving impurity immersed in a Bose-Einstein condensate. New Journal of Physics, 2019, 21, 103026.	1.2	28
74	Interaction-induced single-impurity tunneling in a binary mixture of trapped ultracold bosons. Physical Review A, 2019, 100, .	1.0	10
75	Analytical treatment of the interaction quench dynamics of two bosons in a two-dimensional harmonic trap. Physical Review A, 2019, 100, .	1.0	14
76	Compound atom-ion Josephson junction: Effects of finite temperature and ion motion. Physical Review A, 2019, 100, .	1.0	6
77	Quantum point spread function for imaging trapped few-body systems with a quantum gas microscope. New Journal of Physics, 2019, 21, 053013.	1.2	8
78	Dynamical pruning of the non-equilibrium quantum dynamics of trapped ultracold bosons. Journal of Chemical Physics, 2019, 151, .	1.2	13
79	Quantum Network Transfer and Storage with Compact Localized States Induced by Local Symmetries. Physical Review Letters, 2019, 123, 080504.	2.9	19
80	Correlated quantum dynamics of two quenched fermionic impurities immersed in a Bose-Einstein condensate. Physical Review A, 2019, 100, .	1.0	21
81	Alignment of $s$ -state Rydberg molecules in magnetic fields. Physical Review A, 2019, 99, .	1.0	13
82	Local symmetry theory of resonator structures for the real-space control of edge states in binary aperiodic chains. Physical Review B, 2019, 99, .	1.1	10
83	Quench Dynamics and Orthogonality Catastrophe of Bose Polarons. Physical Review Letters, 2019, 122, 183001.	2.9	78
84	Effective Three-Body Interactions in Cs(6s) $\tilde{n}$ Cs(nd) Rydberg Trimers. Physical Review Letters, 2019, 122, 103001.	2.9	14
85	Quench dynamics of two one-dimensional harmonically trapped bosons bridging attraction and repulsion. Molecular Physics, 2019, 117, 2043-2057.	0.8	17
86	Exciton absorption spectra in narrow armchair graphene nanoribbons in an electric field. Physical Review B, 2019, 99, .	1.1	6
87	Super-Lagrangian and variational principle for generalized continuity equations. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 155203.	0.7	2
88	Building principle of triatomic trilobite Rydberg molecules. Physical Review A, 2019, 99, .	1.0	8
89	Fine structure of the exciton absorption in semiconductor superlattices in crossed electric and magnetic fields. Superlattices and Microstructures, 2019, 128, 408-420.	1.4	0
90	Observation of Local Symmetry in a Photonic System. , 2019, , .		0

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91	Phase-separation dynamics induced by an interaction quench of a correlated Fermi-Fermi mixture in a double well. <i>Physical Review A</i> , 2019, 99, .	1.0	36
92	Duality of bounded and scattering wave systems with local symmetries. <i>Physical Review A</i> , 2019, 99, .	1.0	1
93	Compact localized states of open scattering media: a graph decomposition approach for an ab initio design. <i>Optics Letters</i> , 2019, 44, 375.	1.7	5
94	Observation of Local Symmetry in a Photonic System. , 2019, , .		0
95	Compact localized states and flat bands from local symmetry partitioning. <i>Physical Review B</i> , 2018, 97, .	1.1	40
96	Dark-bright soliton pairs: Bifurcations and collisions. <i>Physical Review A</i> , 2018, 97, .	1.0	13
97	Spin-interaction effects for ultralong-range Rydberg molecules in a magnetic field. <i>Physical Review A</i> , 2018, 97, .	1.0	14
98	Bosonic quantum dynamics following a linear interaction quench in finite optical lattices of unit filling. <i>Chemical Physics</i> , 2018, 509, 106-115.	0.9	15
99	Quantum dynamics of two trapped bosons following infinite interaction quenches. <i>Physical Review A</i> , 2018, 97, .	1.0	20
100	Electrostatic bending response of a charged helix. <i>Physical Review E</i> , 2018, 97, 042503.	0.8	8
101	Correlation induced localization of lattice trapped bosons coupled to a Bose-Einstein condensate. <i>New Journal of Physics</i> , 2018, 20, 033030.	1.2	13
102	Dipolar confinement-induced molecular states in harmonic waveguides. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 035205.	0.6	1
103	State engineering of impurities in a lattice by coupling to a Bose gas. <i>New Journal of Physics</i> , 2018, 20, 103042.	1.2	11
104	Correlated tunneling dynamics of an ultracold Fermi-Fermi mixture confined in a double well. <i>Physical Review A</i> , 2018, 98, .	1.0	26
105	Quench dynamics of finite bosonic ensembles in optical lattices with spatially modulated interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 225001.	0.6	13
106	Correlation effects in the quench-induced phase separation dynamics of a two species ultracold quantum gas. <i>New Journal of Physics</i> , 2018, 20, 043052.	1.2	68
107	Simultaneous Control of Multispecies Particle Transport and Segregation in Driven Lattices. <i>Physical Review Letters</i> , 2018, 120, 218002.	2.9	16
108	Dimensional coupling-induced current reversal in two-dimensional driven lattices. <i>Physical Review E</i> , 2018, 97, 050202.	0.8	9

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109	Many-body expansion dynamics of a Bose-Fermi mixture confined in an optical lattice. <i>Physical Review A</i> , 2018, 97, .	1.0	35
110	Generating scalable entanglement of ultracold bosons in superlattices through resonant shaking. <i>Physical Review A</i> , 2018, 97, .	1.0	1
111	Born-Bogoliubov-Green-Kirkwood-Yvon hierarchy for ultracold bosonic systems. <i>Physical Review A</i> , 2018, 98, .	1.0	8
112	Many-body dissipative flow of a confined scalar Bose-Einstein condensate driven by a Gaussian impurity. <i>Physical Review A</i> , 2018, 98, .	1.0	31
113	Spectral properties and breathing dynamics of a few-body Bose-Bose mixture in a 1D harmonic trap. <i>New Journal of Physics</i> , 2018, 20, 015006.	1.2	19
114	Bunching-antibunching crossover in harmonically trapped few-body Bose-Fermi mixtures. <i>Physical Review A</i> , 2018, 98, .	1.0	7
115	Energy transfer mechanisms in a dipole chain: From energy equipartition to the formation of breathers. <i>Physical Review E</i> , 2018, 98, 022202.	0.8	3
116	Entanglement Induced Interactions in Binary Mixtures. <i>Physical Review Letters</i> , 2018, 121, 043401.	2.9	26
117	Edge modes of scattering chains with aperiodic order. <i>Optics Letters</i> , 2018, 43, 1986.	1.7	21
118	Driven power-law oscillator. <i>Physical Review E</i> , 2018, 98, 022222.	0.8	11
119	Local equilibria and state transfer of charged classical particles on a helix in an electric field. <i>Physical Review E</i> , 2017, 95, 012213.	0.8	6
120	Beyond mean-field dynamics of ultra-cold bosonic atoms in higher dimensions: facing the challenges with a multi-configurational approach. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 034003.	0.6	15
121	Dark-bright soliton interactions beyond the integrable limit. <i>Physical Review A</i> , 2017, 95, .	1.0	16
122	Analysis of the classical phase space and energy transfer for two rotating dipoles with and without external electric field. <i>Physical Review E</i> , 2017, 95, 012209.	0.8	2
123	Emitter and absorber assembly for multiple self-dual operation and directional transparency. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	19
124	Fine structure of the exciton electroabsorption in semiconductor superlattices. <i>Physica B: Condensed Matter</i> , 2017, 507, 61-66.	1.3	2
125	A unified <i>ab initio</i> approach to the correlated quantum dynamics of ultracold fermionic and bosonic mixtures. <i>Journal of Chemical Physics</i> , 2017, 147, 044106.	1.2	83
126	Quantum dynamical response of ultracold few-boson ensembles in finite optical lattices to multiple interaction quenches. <i>Physical Review A</i> , 2017, 95, .	1.0	22



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127	Ultracold bosonic scattering dynamics off a repulsive barrier: Coherence loss at the dimensional crossover. <i>Physical Review A</i> , 2017, 96, .	1.0	13
128	Nonlocal discrete continuity and invariant currents in locally symmetric effective Schrödinger arrays. <i>Annals of Physics</i> , 2017, 385, 623-649.	1.0	14
129	Pinned-to-sliding transition and structural crossovers for helically confined charges. <i>Physical Review E</i> , 2017, 95, 022205.	0.8	7
130	Quench-induced resonant tunneling mechanisms of bosons in an optical lattice with harmonic confinement. <i>Physical Review A</i> , 2017, 95, .	1.0	31
131	Mode coupling of interaction quenched ultracold few-boson ensembles in periodically driven lattices. <i>Physical Review A</i> , 2017, 95, .	1.0	33
132	Unraveling the Structure of Ultracold Mesoscopic Collinear Molecular Ions. <i>Physical Review Letters</i> , 2017, 119, 063001.	2.9	39
133	Non-local currents and the structure of eigenstates in planar discrete systems with local symmetries. <i>Annals of Physics</i> , 2017, 380, 135-153.	1.0	9
134	Highly excited electronic image states of metallic nanorings. <i>Journal of Chemical Physics</i> , 2017, 146, 194704.	1.2	0
135	Collective excitations of dipolar gases based on local tunneling in superlattices. <i>Chemical Physics</i> , 2017, 482, 303-310.	0.9	19
136	Many-body quantum dynamics in the decay of bent dark solitons of Bose-Einstein condensates. <i>New Journal of Physics</i> , 2017, 19, 123012.	1.2	34
137	Electronic structure of ultralong-range Rydberg penta-atomic molecules with two polar diatomic molecules. <i>Physical Review A</i> , 2017, 96, .	1.0	4
138	Dynamical ion transfer between coupled Coulomb crystals in a double-well potential. <i>Physical Review E</i> , 2017, 96, 032227.	0.8	2
139	Stability and Dynamics of Dark-Bright Soliton Bound States Away from the Integrable Limit. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 388.	1.3	6
140	Dark-bright soliton dynamics beyond the mean-field approximation. <i>New Journal of Physics</i> , 2017, 19, 073004.	1.2	52
141	Dynamics of local symmetry correlators for interacting many-particle systems. <i>Journal of Chemical Physics</i> , 2017, 146, 044116.	1.2	5
142	Current Control in Soft-Wall Electron Billiards: Energy-Persistent Scattering in the Deep Quantum Regime. <i>Lecture Notes in Physics</i> , 2017, , 173-191.	0.3	0
143	Computational Quantum Transport in Multiterminal and Multiply Connected Structures. <i>Lecture Notes in Physics</i> , 2017, , 103-148.	0.3	0
144	Magnetoconductance Switching conductance switching by Phase Modulation in Arrays of Oval Quantum Billiards quantum billiard. <i>Lecture Notes in Physics</i> , 2017, , 149-171.	0.3	0

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145	Summary, Conclusions, and Perspectives. Lecture Notes in Physics, 2017, , 219-224.	0.3	0
146	Directional Magnetotransport Control in Multiterminal Focusing Quantum Billiards. Lecture Notes in Physics, 2017, , 193-218.	0.3	0
147	Ultralong-range triatomic Rydberg molecules in an electric field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 124002.	0.6	11
148	Invariant current approach to wave propagation in locally symmetric structures. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 195304.	0.7	12
149	Bound and scattering states in harmonic waveguides in the vicinity of free space Feshbach resonances. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 165302.	0.6	4
150	Exciton absorption in narrow armchair graphene nanoribbons. Physica B: Condensed Matter, 2016, 500, 89-97.	1.3	6
151	Stretching and bending dynamics in triatomic ultralong-range Rydberg molecules. Physical Review A, 2016, 94, .	1.0	20
152	Generalized continuity equations from two-field Schrödinger Lagrangians. Physical Review A, 2016, 94, .	1.0	5
153	Impact of many-body correlations on the dynamics of an ion-controlled bosonic Josephson junction. Physical Review A, 2016, 93, .	1.0	23
154	Chaotic and ballistic dynamics in time-driven quasiperiodic lattices. Physical Review E, 2016, 93, 042215.	0.8	1
155	Exposing local symmetries in distorted driven lattices via time-averaged invariants. Physical Review E, 2016, 93, 052215.	0.8	8
156	Freezing, accelerating, and slowing directed currents in real time with superimposed driven lattices. Physical Review E, 2016, 93, 052219.	0.8	7
157	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetry breaking in waveguides with competing loss-gain pairs. Physical Review A, 2016, 93, .	1.0	19
158	Diffusion and transport in locally disordered driven lattices. Chaos, 2016, 26, 093102.	1.0	0
159	Modulational instability and localized breather modes in the discrete nonlinear Schrödinger equation with helicoidal hopping. Physica D: Nonlinear Phenomena, 2016, 328-329, 9-20.	1.3	8
160	Quench dynamics of two coupled zig-zag ion chains. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2644-2649.	0.9	1
161	Many-body processes in black and gray matter-wave solitons. Physical Review A, 2015, 91, .	1.0	26
162	Generating, dragging, and releasing dark solitons in elongated Bose-Einstein condensates. Physical Review A, 2015, 92, .	1.0	17

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163	Analytical approach to atomic multichannel collisions in tight harmonic waveguides. Physical Review A, 2015, 92, .	1.0	13
164	Two-body correlations and natural-orbital tomography in ultracold bosonic systems of definite parity. Physical Review A, 2015, 92, .	1.0	9
165	Effective intermittency and cross correlations in the standard map. Physical Review E, 2015, 92, 012914.	0.8	1
166	Dynamics of nonlinear excitations of helically confined charges. Physical Review E, 2015, 92, 042905.	0.8	13
167	Sub- and supercritical defect scattering in Schrödinger chains with higher-order hopping. Physical Review A, 2015, 92, .	1.0	5
168	Control of multiple excited image states around segmented carbon nanotubes. Journal of Chemical Physics, 2015, 143, 204309.	1.2	2
169	Capture dynamics of ultracold atoms in the presence of an impurity ion. New Journal of Physics, 2015, 17, 083024.	1.2	25
170	Ultralong-Range Rb-KRb Rydberg Molecules: Selected Aspects of Electronic Structure, Orientation and Alignment. Journal of Physics: Conference Series, 2015, 635, 012023.	0.3	2
171	Rotational hybridization, and control of alignment and orientation in triatomic ultralong-range Rydberg molecules. New Journal of Physics, 2015, 17, 013021.	1.2	16
172	Resonant quantum dynamics of few ultracold bosons in periodically driven finite lattices. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 244004.	0.6	25
173	Bloch dynamics in lattices with long-range hopping. Physical Review A, 2015, 91, .	1.0	24
174	A comparative analysis of binding in ultralong-range Rydberg molecules. New Journal of Physics, 2015, 17, 055010.	1.2	26
175	Site-selective particle deposition in periodically driven quantum lattices. Physical Review A, 2015, 91, .	1.0	3
176	Invariant currents in lossy acoustic waveguides with complete local symmetry. Physical Review B, 2015, 92, .	1.1	18
177	Beyond-mean-field study of a binary bosonic mixture in a state-dependent honeycomb lattice. Physical Review A, 2015, 91, .	1.0	9
178	Negative-quench-induced excitation dynamics for ultracold bosons in one-dimensional lattices. Physical Review A, 2015, 91, .	1.0	54
179	Degeneracy and inversion of band structure for Wigner crystals on a closed helix. Physical Review A, 2015, 91, .	1.0	14
180	Stability and tunneling dynamics of a dark-bright soliton pair in a harmonic trap. Physical Review A, 2015, 91, .	1.0	13

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181	Correlated quantum dynamics of a single atom collisionally coupled to an ultracold finite bosonic ensemble. <i>New Journal of Physics</i> , 2015, 17, 053001.	1.2	17
182	Magnetic kink states emulated with dipolar superlattice gases. <i>Europhysics Letters</i> , 2015, 110, 26004.	0.7	4
183	Interaction induced directed transport in ac-driven periodic potentials. <i>New Journal of Physics</i> , 2015, 17, 083011.	1.2	12
184	Shifts and widths of p-wave confinement induced resonances in atomic waveguides. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 155301.	0.6	9
185	Invariant currents and scattering off locally symmetric potential landscapes. <i>Annals of Physics</i> , 2015, 362, 684-702.	1.0	11
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