

# Peter Schmelcher

## List of Publications by Year in descending order

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483  
papers

10,058  
citations

44069

48  
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95266

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g-index

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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.	2.9	3
2	Pattern Formation in One-Dimensional Polaron Systems and Temporal Orthogonality Catastrophe. <i>Atoms</i> , 2022, 10, 3.	1.6	10
3	On-demand generation of dark-bright soliton trains in Bose-Einstein condensates. <i>Physical Review A</i> , 2022, 105, .	2.5	2
4	Multiphoton absorption and Rabi oscillations in armchair graphene nanoribbons. <i>Physical Review B</i> , 2022, 105, .	3.2	1
5	Breathing dynamics of the few-body Bose polaron in a species-selective harmonic trap. <i>Physical Review A</i> , 2022, 105, .	2.5	0
6	Driven toroidal helix as a generalization of the Kapitza pendulum. <i>Physical Review E</i> , 2022, 105, .	2.1	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, .	2.5	7
8	Interaction effects of pseudospin-based magnetic monopoles and kinks in a doped dipolar superlattice gas. <i>Physical Review A</i> , 2022, 105, .	2.5	1
9	Counterflow dynamics of two correlated impurities immersed in a bosonic gas. <i>Physical Review A</i> , 2022, 105, .	2.5	5
10	Superfluid vortex multipoles and soliton stripes on a torus. <i>Physical Review A</i> , 2022, 105, .	2.5	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.	3.3	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.	2.9	23
13	On-demand generation of dark soliton trains in Bose-Einstein condensates. <i>Physical Review A</i> , 2021, 103, .	2.5	13
14	Entangling Lattice-Trapped Bosons with a Free Impurity: Impact on Stationary and Dynamical Properties. <i>Entropy</i> , 2021, 23, 290.	2.2	5
15	Pattern formation of correlated impurities subjected to an impurity-medium interaction pulse. <i>Physical Review A</i> , 2021, 103, .	2.5	5
16	Electric-field-induced wave-packet dynamics and geometrical rearrangement of trilobite Rydberg molecules. <i>Physical Review A</i> , 2021, 103, .	2.5	9
17	Spectral properties of a three-body atom-ion hybrid system. <i>Physical Review A</i> , 2021, 103, .	2.5	4
18	Symmetry-induced nonlocal divergence-free currents in two-dimensional quantum scattering. <i>Physical Review A</i> , 2021, 103, .	2.5	1

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19	Bosonic quantum dynamics following colliding potential wells. <i>Physical Review A</i> , 2021, 103, .	2.5	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.	2.9	11
21	Many-body collisional dynamics of impurities injected into a double-well trapped Bose-Einstein condensate. <i>Physical Review Research</i> , 2021, 3, .	3.6	8
22	External-field-induced dynamics of a charged particle on a closed helix. <i>Physical Review E</i> , 2021, 103, 052217.	2.1	3
23	Latent Symmetry Induced Degeneracies. <i>Physical Review Letters</i> , 2021, 126, 180601.	7.8	11
24	Many-body effects in models with superexponential interactions. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 97, 105760.	3.3	1
25	Flat bands by latent symmetry. <i>Physical Review B</i> , 2021, 104, .	3.2	17
26	Synthetic Dimension-Induced Conical Intersections in Rydberg Molecules. <i>Physical Review Letters</i> , 2021, 127, 023003.	7.8	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.	0.9	7
28	Impurity-induced quantum chaos for an ultracold bosonic ensemble in a double well. <i>Physical Review A</i> , 2021, 104, .	2.5	7
29	Few-body correlations in two-dimensional Bose and Fermi ultracold mixtures. <i>New Journal of Physics</i> , 2021, 23, 093022.	2.9	11
30	Polarons and their induced interactions in highly imbalanced triple mixtures. <i>Physical Review A</i> , 2021, 104, .	2.5	11
31	Spontaneous Formation of Star-Shaped Surface Patterns in a Driven Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2021, 127, 113001.	7.8	16
32	Statistical mechanics of one-dimensional quantum droplets. <i>Physical Review A</i> , 2021, 104, .	2.5	12
33	Spectral properties of confining superexponential potentials. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 475301.	2.1	0
34	Formation and quench of homonuclear and heteronuclear quantum droplets in one dimension. <i>Physical Review Research</i> , 2021, 3, .	3.6	19
35	Multiphoton intersubband transitions in an armchair graphene nanoribbon. <i>Journal of Physics: Conference Series</i> , 2021, 2103, 012130.	0.4	0
36	Ultralong-range Rydberg molecules. <i>Molecular Physics</i> , 2020, 118, .	1.7	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.	3.3	0
38	Quantum superexponential oscillator. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 305301.	2.1	3
39	Controlling vortical motion of particles in two-dimensional driven superlattices. Physical Review B, 2020, 102, .	3.2	1
40	Phase separation of a Bose-Bose mixture: Impact of the trap and particle-number imbalance. Physical Review A, 2020, 102, .	2.5	6
41	Observation and analysis of multiple dark-antidark solitons in two-component Bose-Einstein condensates. Physical Review A, 2020, 102, .	2.5	27
42	Asymptotic population imbalance of an ultracold bosonic ensemble in a driven double well. Physical Review A, 2020, 102, .	2.5	5
43	Stationary and dynamical properties of two harmonically trapped bosons in the crossover from two dimensions to one. Physical Review A, 2020, 102, .	2.5	13
44	Parametrically excited star-shaped patterns at the interface of binary Bose-Einstein condensates. Physical Review A, 2020, 102, .	2.5	27
45	Tunable order of helically confined charges. Physical Review E, 2020, 102, 012147.	2.1	4
46	Induced interactions and quench dynamics of bosonic impurities immersed in a Fermi sea. Physical Review A, 2020, 102, .	2.5	14
47	Rydberg polyatomic molecules: Electronic structure and experimental proposal for their creation. Journal of Physics: Conference Series, 2020, 1412, 122002.	0.4	0
48	Correlated dynamics of fermionic impurities induced by the counterflow of an ensemble of fermions. Physical Review A, 2020, 101, .	2.5	17
49	Observation of Local Symmetry in a Photonic System. Laser and Photonics Reviews, 2020, 14, 1900222.	8.7	2
50	Multiple Current Reversals Using Superimposed Driven Lattices. Applied Sciences (Switzerland), 2020, 10, 1357.	2.5	2
51	Designing pretty good state transfer via isospectral reductions. Physical Review A, 2020, 101, .	2.5	7
52	Many-body effects on second-order phase transitions in spinor Bose-Einstein condensates and breathing dynamics. Physical Review A, 2020, 102, .	2.5	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.	1.5	2
54	Triatomic butterfly molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 084001.	1.5	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.	2.9	19
56	Many-body quantum dynamics and induced correlations of Bose polarons. <i>New Journal of Physics</i> , 2020, 22, 043007.	2.9	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, .	2.5	13
58	Superexponential self-interacting oscillator. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 075701.	2.1	3
59	Transfer efficiency enhancement and eigenstate properties in locally symmetric disordered finite chains. <i>Annals of Physics</i> , 2020, 418, 168163.	2.8	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.	2.9	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.	2.9	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.	2.9	15
63	Observation of spin-orbit-dependent electron scattering using long-range Rydberg molecules. <i>Physical Review Research</i> , 2020, 2, .	3.6	12
64	Controlling transport of underdamped particles in two-dimensional driven Bravais lattices. <i>Physical Review Research</i> , 2020, 2, .	3.6	1
65	Induced correlations between impurities in a one-dimensional quenched Bose gas. <i>Physical Review Research</i> , 2020, 2, .	3.6	30
66	Pump-probe spectroscopy of Bose polarons: Dynamical formation and coherence. <i>Physical Review Research</i> , 2020, 2, .	3.6	18
67	Repulsive Fermi polarons and their induced interactions in binary mixtures of ultracold atoms. <i>New Journal of Physics</i> , 2019, 21, 043032.	2.9	47
68	Probing ferromagnetic order in few-fermion correlated spin-flip dynamics. <i>New Journal of Physics</i> , 2019, 21, 053005.	2.9	25
69	Precision Spectroscopy of Negative-Ion Resonances in Ultralong-Range Rydberg Molecules. <i>Physical Review Letters</i> , 2019, 123, 073003.	7.8	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, .	2.5	19
71	Effective approach to impurity dynamics in one-dimensional trapped Bose gases. <i>Physical Review A</i> , 2019, 100, .	2.5	46
72	Controlled generation of dark-bright soliton complexes in two-component and spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2019, 100, .	2.5	12

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73	Dissipative correlated dynamics of a moving impurity immersed in a Bose-Einstein condensate. <i>New Journal of Physics</i> , 2019, 21, 103026.	2.9	28
74	Interaction-induced single-impurity tunneling in a binary mixture of trapped ultracold bosons. <i>Physical Review A</i> , 2019, 100, .	2.5	10
75	Analytical treatment of the interaction quench dynamics of two bosons in a two-dimensional harmonic trap. <i>Physical Review A</i> , 2019, 100, .	2.5	14
76	Compound atom-ion Josephson junction: Effects of finite temperature and ion motion. <i>Physical Review A</i> , 2019, 100, .	2.5	6
77	Quantum point spread function for imaging trapped few-body systems with a quantum gas microscope. <i>New Journal of Physics</i> , 2019, 21, 053013.	2.9	8
78	Dynamical pruning of the non-equilibrium quantum dynamics of trapped ultracold bosons. <i>Journal of Chemical Physics</i> , 2019, 151, .	3.0	13
79	Quantum Network Transfer and Storage with Compact Localized States Induced by Local Symmetries. <i>Physical Review Letters</i> , 2019, 123, 080504.	7.8	19
80	Correlated quantum dynamics of two quenched fermionic impurities immersed in a Bose-Einstein condensate. <i>Physical Review A</i> , 2019, 100, .	2.5	21
81	Alignment of $s$ -state Rydberg molecules in magnetic fields. <i>Physical Review A</i> , 2019, 99, .	2.5	13
82	Local symmetry theory of resonator structures for the real-space control of edge states in binary aperiodic chains. <i>Physical Review B</i> , 2019, 99, .	3.2	10
83	Quench Dynamics and Orthogonality Catastrophe of Bose Polarons. <i>Physical Review Letters</i> , 2019, 122, 183001.	7.8	78
84	Effective Three-Body Interactions in Cs(6s) $\tilde{n}$ Cs(nd) Rydberg Trimers. <i>Physical Review Letters</i> , 2019, 122, 103001.	7.8	14
85	Quench dynamics of two one-dimensional harmonically trapped bosons bridging attraction and repulsion. <i>Molecular Physics</i> , 2019, 117, 2043-2057.	1.7	17
86	Exciton absorption spectra in narrow armchair graphene nanoribbons in an electric field. <i>Physical Review B</i> , 2019, 99, .	3.2	6
87	Super-Lagrangian and variational principle for generalized continuity equations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 155203.	2.1	2
88	Building principle of triatomic trilobite Rydberg molecules. <i>Physical Review A</i> , 2019, 99, .	2.5	8
89	Fine structure of the exciton absorption in semiconductor superlattices in crossed electric and magnetic fields. <i>Superlattices and Microstructures</i> , 2019, 128, 408-420.	3.1	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, .	2.5	36
92	Duality of bounded and scattering wave systems with local symmetries. <i>Physical Review A</i> , 2019, 99, .	2.5	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.	3.3	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, .	3.2	40
96	Dark-bright soliton pairs: Bifurcations and collisions. <i>Physical Review A</i> , 2018, 97, .	2.5	13
97	Spin-interaction effects for ultralong-range Rydberg molecules in a magnetic field. <i>Physical Review A</i> , 2018, 97, .	2.5	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.	1.9	15
99	Quantum dynamics of two trapped bosons following infinite interaction quenches. <i>Physical Review A</i> , 2018, 97, .	2.5	20
100	Electrostatic bending response of a charged helix. <i>Physical Review E</i> , 2018, 97, 042503.	2.1	8
101	Correlation induced localization of lattice trapped bosons coupled to a Bose-Einstein condensate. <i>New Journal of Physics</i> , 2018, 20, 033030.	2.9	13
102	Dipolar confinement-induced molecular states in harmonic waveguides. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 035205.	1.5	1
103	State engineering of impurities in a lattice by coupling to a Bose gas. <i>New Journal of Physics</i> , 2018, 20, 103042.	2.9	11
104	Correlated tunneling dynamics of an ultracold Fermi-Fermi mixture confined in a double well. <i>Physical Review A</i> , 2018, 98, .	2.5	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.	1.5	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.	2.9	68
107	Simultaneous Control of Multispecies Particle Transport and Segregation in Driven Lattices. <i>Physical Review Letters</i> , 2018, 120, 218002.	7.8	16
108	Dimensional coupling-induced current reversal in two-dimensional driven lattices. <i>Physical Review E</i> , 2018, 97, 050202.	2.1	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, .	2.5	35
110	Generating scalable entanglement of ultracold bosons in superlattices through resonant shaking. <i>Physical Review A</i> , 2018, 97, .	2.5	1
111	Born-Bogoliubov-Green-Kirkwood-Yvon hierarchy for ultracold bosonic systems. <i>Physical Review A</i> , 2018, 98, .	2.5	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, .	2.5	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.	2.9	19
114	Bunching-antibunching crossover in harmonically trapped few-body Bose-Fermi mixtures. <i>Physical Review A</i> , 2018, 98, .	2.5	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.	2.1	3
116	Entanglement Induced Interactions in Binary Mixtures. <i>Physical Review Letters</i> , 2018, 121, 043401.	7.8	26
117	Edge modes of scattering chains with aperiodic order. <i>Optics Letters</i> , 2018, 43, 1986.	3.3	21
118	Driven power-law oscillator. <i>Physical Review E</i> , 2018, 98, 022222.	2.1	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.	2.1	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.	1.5	15
121	Dark-bright soliton interactions beyond the integrable limit. <i>Physical Review A</i> , 2017, 95, .	2.5	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.	2.1	2
123	Emitter and absorber assembly for multiple self-dual operation and directional transparency. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	19
124	Fine structure of the exciton electroabsorption in semiconductor superlattices. <i>Physica B: Condensed Matter</i> , 2017, 507, 61-66.	2.7	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.	3.0	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, .	2.5	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, .	2.5	13
128	Nonlocal discrete continuity and invariant currents in locally symmetric effective Schrödinger arrays. <i>Annals of Physics</i> , 2017, 385, 623-649.	2.8	14
129	Pinned-to-sliding transition and structural crossovers for helically confined charges. <i>Physical Review E</i> , 2017, 95, 022205.	2.1	7
130	Quench-induced resonant tunneling mechanisms of bosons in an optical lattice with harmonic confinement. <i>Physical Review A</i> , 2017, 95, .	2.5	31
131	Mode coupling of interaction quenched ultracold few-boson ensembles in periodically driven lattices. <i>Physical Review A</i> , 2017, 95, .	2.5	33
132	Unraveling the Structure of Ultracold Mesoscopic Collinear Molecular Ions. <i>Physical Review Letters</i> , 2017, 119, 063001.	7.8	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.	2.8	9
134	Highly excited electronic image states of metallic nanorings. <i>Journal of Chemical Physics</i> , 2017, 146, 194704.	3.0	0
135	Collective excitations of dipolar gases based on local tunneling in superlattices. <i>Chemical Physics</i> , 2017, 482, 303-310.	1.9	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.	2.9	34
137	Electronic structure of ultralong-range Rydberg penta-atomic molecules with two polar diatomic molecules. <i>Physical Review A</i> , 2017, 96, .	2.5	4
138	Dynamical ion transfer between coupled Coulomb crystals in a double-well potential. <i>Physical Review E</i> , 2017, 96, 032227.	2.1	2
139	Stability and Dynamics of Dark-Bright Soliton Bound States Away from the Integrable Limit. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 388.	2.5	6
140	Dark-bright soliton dynamics beyond the mean-field approximation. <i>New Journal of Physics</i> , 2017, 19, 073004.	2.9	52
141	Dynamics of local symmetry correlators for interacting many-particle systems. <i>Journal of Chemical Physics</i> , 2017, 146, 044116.	3.0	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.	0.7	0
143	Computational Quantum Transport in Multiterminal and Multiply Connected Structures. <i>Lecture Notes in Physics</i> , 2017, , 103-148.	0.7	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.	0.7	0

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145	Summary, Conclusions, and Perspectives. Lecture Notes in Physics, 2017, , 219-224.	0.7	0
146	Directional Magnetotransport Control in Multiterminal Focusing Quantum Billiards. Lecture Notes in Physics, 2017, , 193-218.	0.7	0
147	Ultralong-range triatomic Rydberg molecules in an electric field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 124002.	1.5	11
148	Invariant current approach to wave propagation in locally symmetric structures. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 195304.	2.1	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.	1.5	4
150	Exciton absorption in narrow armchair graphene nanoribbons. Physica B: Condensed Matter, 2016, 500, 89-97.	2.7	6
151	Stretching and bending dynamics in triatomic ultralong-range Rydberg molecules. Physical Review A, 2016, 94, .	2.5	20
152	Generalized continuity equations from two-field Schrödinger Lagrangians. Physical Review A, 2016, 94, .	2.5	5
153	Impact of many-body correlations on the dynamics of an ion-controlled bosonic Josephson junction. Physical Review A, 2016, 93, .	2.5	23
154	Chaotic and ballistic dynamics in time-driven quasiperiodic lattices. Physical Review E, 2016, 93, 042215.	2.1	1
155	Exposing local symmetries in distorted driven lattices via time-averaged invariants. Physical Review E, 2016, 93, 052215.	2.1	8
156	Freezing, accelerating, and slowing directed currents in real time with superimposed driven lattices. Physical Review E, 2016, 93, 052219.	2.1	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, .	2.5	19
158	Diffusion and transport in locally disordered driven lattices. Chaos, 2016, 26, 093102.	2.5	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.	2.8	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.	2.1	1
161	Many-body processes in black and gray matter-wave solitons. Physical Review A, 2015, 91, .	2.5	26
162	Generating, dragging, and releasing dark solitons in elongated Bose-Einstein condensates. Physical Review A, 2015, 92, .	2.5	17

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163	Analytical approach to atomic multichannel collisions in tight harmonic waveguides. Physical Review A, 2015, 92, .	2.5	13
164	Two-body correlations and natural-orbital tomography in ultracold bosonic systems of definite parity. Physical Review A, 2015, 92, .	2.5	9
165	Effective intermittency and cross correlations in the standard map. Physical Review E, 2015, 92, 012914.	2.1	1
166	Dynamics of nonlinear excitations of helically confined charges. Physical Review E, 2015, 92, 042905.	2.1	13
167	Sub- and supercritical defect scattering in Schrödinger chains with higher-order hopping. Physical Review A, 2015, 92, .	2.5	5
168	Control of multiple excited image states around segmented carbon nanotubes. Journal of Chemical Physics, 2015, 143, 204309.	3.0	2
169	Capture dynamics of ultracold atoms in the presence of an impurity ion. New Journal of Physics, 2015, 17, 083024.	2.9	25
170	Ultralong-Range Rb-KRb Rydberg Molecules: Selected Aspects of Electronic Structure, Orientation and Alignment. Journal of Physics: Conference Series, 2015, 635, 012023.	0.4	2
171	Rotational hybridization, and control of alignment and orientation in triatomic ultralong-range Rydberg molecules. New Journal of Physics, 2015, 17, 013021.	2.9	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.	1.5	25
173	Bloch dynamics in lattices with long-range hopping. Physical Review A, 2015, 91, .	2.5	24
174	A comparative analysis of binding in ultralong-range Rydberg molecules. New Journal of Physics, 2015, 17, 055010.	2.9	26
175	Site-selective particle deposition in periodically driven quantum lattices. Physical Review A, 2015, 91, .	2.5	3
176	Invariant currents in lossy acoustic waveguides with complete local symmetry. Physical Review B, 2015, 92, .	3.2	18
177	Beyond-mean-field study of a binary bosonic mixture in a state-dependent honeycomb lattice. Physical Review A, 2015, 91, .	2.5	9
178	Negative-quench-induced excitation dynamics for ultracold bosons in one-dimensional lattices. Physical Review A, 2015, 91, .	2.5	54
179	Degeneracy and inversion of band structure for Wigner crystals on a closed helix. Physical Review A, 2015, 91, .	2.5	14
180	Stability and tunneling dynamics of a dark-bright soliton pair in a harmonic trap. Physical Review A, 2015, 91, .	2.5	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.	2.9	17
182	Magnetic kink states emulated with dipolar superlattice gases. <i>Europhysics Letters</i> , 2015, 110, 26004.	2.0	4
183	Interaction induced directed transport in ac-driven periodic potentials. <i>New Journal of Physics</i> , 2015, 17, 083011.	2.9	12
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