

# Peter Schmelcher

## List of Publications by Year in descending order

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483  
papers

10,058  
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95266

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486  
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times ranked

2855  
citing authors

#	ARTICLE	IF	CITATIONS
1	Confinement-Induced Resonances in Low-Dimensional Quantum Systems. <i>Physical Review Letters</i> , 2010, 104, 153203.	7.8	198
2	Detecting Unstable Periodic Orbits of Chaotic Dynamical Systems. <i>Physical Review Letters</i> , 1997, 78, 4733-4736.	7.8	136
3	Few-Boson Dynamics in Double Wells: From Single-Atom to Correlated Pair Tunneling. <i>Physical Review Letters</i> , 2008, 100, 040401.	7.8	134
4	Matter-wave solitons of collisionally inhomogeneous condensates. <i>Physical Review A</i> , 2005, 72, .	2.5	126
5	Charged anisotropic harmonic oscillator and the hydrogen atom in crossed fields. <i>Physical Review A</i> , 1994, 49, 4415-4429.	2.5	117
6	The helium atom in a strong magnetic field. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 1557-1584.	1.5	115
7	The multi-layer multi-configuration time-dependent Hartree method for bosons: Theory, implementation, and applications. <i>Journal of Chemical Physics</i> , 2013, 139, 134103.	3.0	112
8	Guiding-center dynamics of vortex dipoles in Bose-Einstein condensates. <i>Physical Review A</i> , 2011, 84, .	2.5	104
9	Interaction of dark solitons with localized impurities in Bose-Einstein condensates. <i>Physical Review A</i> , 2002, 66, .	2.5	95
10	Dynamics of dark-bright solitons in cigar-shaped Bose-Einstein condensates. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 642-646.	2.1	92
11	Non-equilibrium quantum dynamics of ultra-cold atomic mixtures: the multi-layer multi-configuration time-dependent Hartree method for bosons. <i>New Journal of Physics</i> , 2013, 15, 063018.	2.9	89
12	Tunable Fermi Acceleration in the Driven Elliptical Billiard. <i>Physical Review Letters</i> , 2008, 100, 014103.	7.8	84
13	Hyperacceleration in a Stochastic Fermi-Ulam Model. <i>Physical Review Letters</i> , 2006, 97, 194102.	7.8	83
14	Multiple dark-bright solitons in atomic Bose-Einstein condensates. <i>Physical Review A</i> , 2011, 84, .	2.5	83
15	Alignment of $D$ -State Rydberg Molecules. <i>Physical Review Letters</i> , 2014, 112, 143008.	7.8	83
16	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
17	Symmetry breaking in symmetric and asymmetric double-well potentials. <i>Physical Review E</i> , 2006, 74, 056608.	2.1	82
18	Hydrogen molecule in a magnetic field: The lowest states of the manifold and the global ground state of the parallel configuration. <i>Physical Review A</i> , 1998, 57, 1767-1777.	2.5	81

#	ARTICLE	IF	CITATIONS
19	Ultracold few-boson systems in a double-well trap. <i>Physical Review A</i> , 2006, 74, .	2.5	81
20	Non-zero angular momentum states of the helium atom in a strong magnetic field. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 545-568.	1.5	78
21	Quench Dynamics and Orthogonality Catastrophe of Bose Polarons. <i>Physical Review Letters</i> , 2019, 122, 183001.	7.8	78
22	Correlations in ultracold trapped few-boson systems: Transition from condensation to fermionization. <i>Physical Review A</i> , 2006, 74, .	2.5	77
23	Molecules in strong magnetic fields: Properties of atomic orbitals. <i>Physical Review A</i> , 1988, 37, 672-681.	2.5	74
24	General approach to the localization of unstable periodic orbits in chaotic dynamical systems. <i>Physical Review E</i> , 1998, 57, 2739-2746.	2.1	74
25	Dynamics of vortex dipoles in confined Bose-Einstein condensates. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 3044-3050.	2.1	72
26	Phononic Frequency Combs through Nonlinear Resonances. <i>Physical Review Letters</i> , 2014, 112, 075505.	7.8	71
27	Hydrogen molecule in magnetic fields: The ground states of the $\hat{L}_z$ manifold of the parallel configuration. <i>Physical Review A</i> , 1997, 56, 1825-1838.	2.5	70
28	Electronic and nuclear motion and their couplings in the presence of a magnetic field. <i>Physical Review A</i> , 1988, 38, 6066-6079.	2.5	69
29	Composite fermionization of one-dimensional Bose-Bose mixtures. <i>Physical Review A</i> , 2008, 78, .	2.5	69
30	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
31	Higher-angular-momentum states of the helium atom in a strong magnetic field. <i>Physical Review A</i> , 2001, 63, .	2.5	66
32	Electronic bond structure of the $H_2^+$ ion in a strong magnetic field: A study of the parallel configuration. <i>Physical Review A</i> , 1995, 51, 4542-4557.	2.5	65
33	Bifurcations, stability, and dynamics of multiple matter-wave vortex states. <i>Physical Review A</i> , 2010, 82, .	2.5	65
34	Adiabatic potential-energy surfaces of the $H_2^+$ ion in a strong magnetic field. <i>Physical Review A</i> , 1996, 53, 3869-3883.	2.5	61
35	Tunneling dynamics of a few bosons in a double well. <i>Physical Review A</i> , 2008, 78, .	2.5	60
36	Suppression of Quantum Scattering in Strongly Confined Systems. <i>Physical Review Letters</i> , 2006, 97, 193203.	7.8	58

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37	Matter-wave dark solitons and their excitation spectra in spin-orbit coupled Bose-Einstein condensates. <i>Europhysics Letters</i> , 2013, 103, 20002.	2.0	57
38	Inelastic collisions of solitary waves in anisotropic Bose-Einstein condensates: sling-shot events and expanding collision bubbles. <i>New Journal of Physics</i> , 2013, 15, 113028.	2.9	55
39	Stability transformation: a tool to solve nonlinear problems. <i>Physics Reports</i> , 2004, 400, 67-148.	25.6	54
40	Negative-quench-induced excitation dynamics for ultracold bosons in one-dimensional lattices. <i>Physical Review A</i> , 2015, 91, .	2.5	54
41	Ground states of H, He, $\text{Li}^+$ , Ne, and their singly positive ions in strong magnetic fields: The high-field regime. <i>Physical Review A</i> , 2000, 61, .	2.5	53
42	Manipulation of ultracold atoms in dressed adiabatic radio-frequency potentials. <i>Physical Review A</i> , 2006, 74, .	2.5	53
43	Dark-bright soliton dynamics beyond the mean-field approximation. <i>New Journal of Physics</i> , 2017, 19, 073004.	2.9	52
44	Ab initio calculations with a nonspherical Gaussian basis set: Excited states of the hydrogen molecule. <i>Journal of Chemical Physics</i> , 1998, 109, 9694-9700.	3.0	51
45	Lithium in strong magnetic fields. <i>Physical Review A</i> , 2004, 70, .	2.5	51
46	Quantum breathing dynamics of ultracold bosons in one-dimensional harmonic traps: Unraveling the pathway from few- to many-body systems. <i>Physical Review A</i> , 2013, 88, .	2.5	51
47	Ground state of the lithium atom in strong magnetic fields. <i>Physical Review A</i> , 1998, 57, 3793-3800.	2.5	49
48	Lagrangian approach to the dynamics of dark matter-wave solitons. <i>Physical Review A</i> , 2005, 72, .	2.5	49
49	Theory and examples of the inverse Frobenius-Perron problem for complete chaotic maps. <i>Chaos</i> , 1999, 9, 357-366.	2.5	48
50	Interaction quench induced multimode dynamics of finite atomic ensembles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 225303.	1.5	47
51	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
52	Effective approach to impurity dynamics in one-dimensional trapped Bose gases. <i>Physical Review A</i> , 2019, 100, .	2.5	46
53	Fermi acceleration in the randomized driven Lorentz gas and the Fermi-Ulam model. <i>Physical Review E</i> , 2007, 76, 016214.	2.1	45
54	Matter-wave solitons with a periodic, piecewise-constant scattering length. <i>Physical Review A</i> , 2008, 78, .	2.5	45

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55	Ground state of the carbon atom in strong magnetic fields. <i>Physical Review A</i> , 1999, 60, 3558-3568.	2.5	44
56	Ground and excited states of the hydrogen negative ion in strong magnetic fields. <i>Physical Review A</i> , 2000, 61, .	2.5	43
57	Impurity center in a semiconductor quantum ring in the presence of crossed magnetic and electric fields. <i>Physical Review B</i> , 2003, 67, .	3.2	43
58	Dynamical trapping and transmission of matter-wave solitons in a collisionally inhomogeneous environment. <i>Physical Review A</i> , 2006, 74, .	2.5	43
59	Multichannel atomic scattering and confinement-induced resonances in waveguides. <i>Physical Review A</i> , 2008, 77, .	2.5	43
60	On the validity of the Born-Oppenheimer approximation in magnetic fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1988, 21, L445-L450.	1.5	42
61	Intermittent chaos in Hamiltonian systems: The three-dimensional hydrogen atom in magnetic fields. <i>Physical Review A</i> , 1993, 47, 2634-2639.	2.5	42
62	Global view on the electronic properties of two-electron anisotropic quantum dots. <i>Physical Review B</i> , 2004, 69, .	3.2	42
63	Crossings of potential-energy surfaces in a magnetic field. <i>Physical Review A</i> , 1990, 41, 4936-4943.	2.5	41
64	Cold and ultracold Rydberg atoms in strong magnetic fields. <i>Physics Reports</i> , 2009, 484, 181-229.	25.6	41
65	Two-body effects of the hydrogen atom in crossed electric and magnetic fields. <i>Chemical Physics Letters</i> , 1993, 208, 548-554.	2.6	40
66	Atomic orbital basis set optimization for ab initio calculations of molecules with hydrogen atoms in strong magnetic fields. <i>Journal of Chemical Physics</i> , 1994, 100, 2878-2887.	3.0	40
67	Rovibrational spectra of diatomic molecules in strong electric fields: The adiabatic regime. <i>Physical Review A</i> , 2004, 69, .	2.5	40
68	Vortexâ€“bright-soliton dipoles: Bifurcations, symmetry breaking, and soliton tunneling in a vortex-induced double well. <i>Physical Review A</i> , 2012, 86, .	2.5	40
69	Dipolar Confinement-Induced Resonances of Ultracold Gases in Waveguides. <i>Physical Review Letters</i> , 2013, 111, 183201.	7.8	40
70	Compact localized states and flat bands from local symmetry partitioning. <i>Physical Review B</i> , 2018, 97, .	3.2	40
71	Construction of Analytical Many-Body Wave Functions for Correlated Bosons in a Harmonic Trap. <i>Physical Review Letters</i> , 2012, 108, 045301.	7.8	39
72	Two-component few-fermion mixtures in a one-dimensional trap: Numerical versus analytical approach. <i>Physical Review A</i> , 2013, 87, .	2.5	39

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73	Unraveling the Structure of Ultracold Mesoscopic Collinear Molecular Ions. Physical Review Letters, 2017, 119, 063001.	7.8	39
74	Interaction of the Landau orbitals of atomic ions in a magnetic field with electronic motion. Physical Review A, 1991, 43, 287-293.	2.5	38
75	Excitations of few-boson systems in one-dimensional harmonic and double wells. Physical Review A, 2007, 75, .	2.5	38
76	Systematic Computation of the Least Unstable Periodic Orbits in Chaotic Attractors. Physical Review Letters, 1998, 81, 4349-4352.	7.8	37
77	Beryllium in strong magnetic fields. Physical Review A, 2004, 70, .	2.5	37
78	Wave-packet dynamical analysis of ultracold scattering in cylindrical waveguides. Physical Review A, 2007, 76, .	2.5	37
79	Adiabatic potential-energy surfaces for higher excited states of the H <sub>2</sub> <sup>+</sup> ion in a strong magnetic field. Physical Review A, 1996, 54, 1313-1317.	2.5	36
80	Helium in superstrong magnetic fields. Physical Review A, 2003, 67, .	2.5	36
81	Coupled $\hat{a}_\pm$ -wave confinement-induced resonances in cylindrically symmetric waveguides. Physical Review A, 2012, 86, .	2.5	36
82	Phase-separation dynamics induced by an interaction quench of a correlated Fermi-Fermi mixture in a double well. Physical Review A, 2019, 99, .	2.5	36
83	On chaos in unbounded phase space. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 164, 305-309.	2.1	35
84	Influence of a strong magnetic field on the chemical bond of the excited H <sub>2</sub> <sup>+</sup> ion. Physical Review A, 1994, 50, 3775-3781.	2.5	35
85	Electromagnetic transitions of the helium atom in a strong magnetic field. Physical Review A, 2002, 65, .	2.5	35
86	Quantum dynamics of resonant molecule formation in waveguides. New Journal of Physics, 2009, 11, 073031.	2.9	35
87	Local symmetries and perfect transmission in aperiodic photonic multilayers. Physical Review A, 2013, 88, .	2.5	35
88	Many-body expansion dynamics of a Bose-Fermi mixture confined in an optical lattice. Physical Review A, 2018, 97, .	2.5	35
89	Regularity and chaos in the center of mass motion of the hydrogen atom in a magnetic field. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1992, 24, 311-323.	1.0	34
90	Quantum scattering in quasi-one-dimensional cylindrical confinement. Physical Review A, 2005, 72, .	2.5	34

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91	Many-body quantum dynamics in the decay of bent dark solitons of Bose-Einstein condensates. New Journal of Physics, 2017, 19, 123012.	2.9	34
92	The analytic continuation of the Gaussian hypergeometric function ${}_2F_1(a,b;c;z)$ for arbitrary parameters. Journal of Computational and Applied Mathematics, 2000, 126, 449-478.	2.0	33
93	Soliton oscillations in collisionally inhomogeneous attractive Bose-Einstein condensates. Physical Review A, 2007, 76, .	2.5	33
94	Mode coupling of interaction quenched ultracold few-boson ensembles in periodically driven lattices. Physical Review A, 2017, 95, .	2.5	33
95	Precision Spectroscopy of Negative-Ion Resonances in Ultralong-Range Rydberg Molecules. Physical Review Letters, 2019, 123, 073003.	7.8	33
96	Many-body quantum dynamics and induced correlations of Bose polarons. New Journal of Physics, 2020, 22, 043007.	2.9	33
97	Excitations of attractive 1D bosons: binding versus fermionization. New Journal of Physics, 2008, 10, 103021.	2.9	32
98	Ground-state properties of ultracold trapped bosons with an immersed ionic impurity. Physical Review A, 2014, 90, .	2.5	32
99	On the topology of the adiabatic potential energy surfaces of the $H_2^+$ -ion in a strong magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 210, 409-415.	2.1	31
100	Long-Lived States of Positronium in Crossed Electric and Magnetic Fields. Physical Review Letters, 1997, 78, 199-202.	7.8	31
101	Ultra-long-range Rydberg molecules exposed to a magnetic field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, L69-L76.	1.5	31
102	Invariants of Broken Discrete Symmetries. Physical Review Letters, 2014, 113, 050403.	7.8	31
103	Quench-induced resonant tunneling mechanisms of bosons in an optical lattice with harmonic confinement. Physical Review A, 2017, 95, .	2.5	31
104	Many-body dissipative flow of a confined scalar Bose-Einstein condensate driven by a Gaussian impurity. Physical Review A, 2018, 98, .	2.5	31
105	Positronium in crossed electric and magnetic fields: The existence of a long-lived ground state. Physical Review A, 1998, 58, 1129-1138.	2.5	30
106	Evolutionary phase space in driven elliptical billiards. New Journal of Physics, 2009, 11, 083035.	2.9	30
107	Induced correlations between impurities in a one-dimensional quenched Bose gas. Physical Review Research, 2020, 2, .	3.6	30
108	Quantum Energy Flow in Atomic Ions Moving in Magnetic Fields. Physical Review Letters, 2000, 84, 1870-1873.	7.8	29

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109	Magnetic Trapping of Ultracold Rydberg Atoms. <i>Physical Review Letters</i> , 2005, 95, 053001.	7.8	29
110	The boron atom and boron positive ion in strong magnetic fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 2031-2044.	1.5	28
111	Detecting unstable periodic orbits in chaotic continuous-time dynamical systems. <i>Physical Review E</i> , 2001, 64, 026214.	2.1	28
112	Parallel implementation of the recursive Green's function method. <i>Journal of Computational Physics</i> , 2006, 215, 741-756.	3.8	28
113	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
114	A stochastic approach to the construction of one-dimensional chaotic maps with prescribed statistical properties. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 264, 162-170.	2.1	27
115	Excited states of the hydrogen molecule in magnetic fields: The triplet states of the parallel configuration. <i>Physical Review A</i> , 2001, 64, .	2.5	27
116	Electromagnetic transitions of the helium atom in superstrong magnetic fields. <i>Physical Review A</i> , 2003, 68, .	2.5	27
117	Electrically dressed ultra-long-range polar Rydberg molecules. <i>Physical Review A</i> , 2013, 88, .	2.5	27
118	Ultralong-range Rydberg molecules. <i>Molecular Physics</i> , 2020, 118, .	1.7	27
119	Observation and analysis of multiple dark-antidark solitons in two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2020, 102, .	2.5	27
120	Parametrically excited star-shaped patterns at the interface of binary Bose-Einstein condensates. <i>Physical Review A</i> , 2020, 102, .	2.5	27
121	Interspecies tunneling in one-dimensional Bose mixtures. <i>Physical Review A</i> , 2010, 81, .	2.5	26
122	Stability and dynamics of matter-wave vortices in the presence of collisional inhomogeneities and dissipative perturbations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 155303.	1.5	26
123	Many-body processes in black and gray matter-wave solitons. <i>Physical Review A</i> , 2015, 91, .	2.5	26
124	A comparative analysis of binding in ultralong-range Rydberg molecules. <i>New Journal of Physics</i> , 2015, 17, 055010.	2.9	26
125	Correlated tunneling dynamics of an ultracold Fermi-Fermi mixture confined in a double well. <i>Physical Review A</i> , 2018, 98, .	2.5	26
126	Entanglement Induced Interactions in Binary Mixtures. <i>Physical Review Letters</i> , 2018, 121, 043401.	7.8	26

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127	On the construction of one-dimensional iterative maps from the invariant density: the dynamical route to the beta distribution. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 211, 199-203.	2.1	25
128	Exchange and correlation energies of ground states of atoms and molecules in strong magnetic fields. <i>Physical Review A</i> , 1999, 59, 3424-3431.	2.5	25
129	Bound states of negatively charged ions induced by a magnetic field. <i>Physical Review A</i> , 2000, 61, .	2.5	25
130	The beryllium atom and beryllium positive ion in strong magnetic fields. <i>European Physical Journal D</i> , 2001, 14, 279-288.	1.3	25
131	Material-barrier tunnelling in one-dimensional few-boson mixtures. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 231002.	1.5	25
132	Emergence and stability of vortex clusters in Bose-Einstein condensates: A bifurcation approach near the linear limit. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 1449-1459.	2.8	25
133	Capture dynamics of ultracold atoms in the presence of an impurity ion. <i>New Journal of Physics</i> , 2015, 17, 083024.	2.9	25
134	Resonant quantum dynamics of few ultracold bosons in periodically driven finite lattices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 244004.	1.5	25
135	Probing ferromagnetic order in few-fermion correlated spin-flip dynamics. <i>New Journal of Physics</i> , 2019, 21, 053005.	2.9	25
136	Classical Self-Ionization of Fast Atomic Ions in Magnetic Fields. <i>Physical Review Letters</i> , 1995, 74, 662-665.	7.8	24
137	Rotation-vibration Hamiltonian for neutral diatomic molecules in magnetic fields: dynamical screening of nuclei. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, 2903-2913.	1.5	24
138	Molecules in strong magnetic fields: Some perspectives and general aspects. <i>International Journal of Quantum Chemistry</i> , 1997, 64, 501-511.	2.0	24
139	Rovibrational dynamics of LiCs dimers in strong electric fields. <i>Chemical Physics</i> , 2006, 329, 203-215.	1.9	24
140	Dynamical trapping and chaotic scattering of the harmonically driven barrier. <i>Physical Review E</i> , 2008, 78, 056204.	2.1	24
141	Theoretical description of adiabatic laser alignment and mixed-field orientation: the need for a non-adiabatic model. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18815.	2.8	24
142	Multichannel effects near confinement-induced resonances in harmonic waveguides. <i>Physical Review A</i> , 2011, 84, .	2.5	24
143	Bloch dynamics in lattices with long-range hopping. <i>Physical Review A</i> , 2015, 91, .	2.5	24
144	Electric-field-induced adiabaticity in the rovibrational motion of heteronuclear diatomic molecules. <i>Physical Review A</i> , 2005, 71, .	2.5	23

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145	Phase-space composition of driven elliptical billiards and its impact on Fermi acceleration. <i>Physical Review E</i> , 2010, 82, 016206.	2.1	23
146	Correlation versus commensurability effects for finite bosonic systems in one-dimensional lattices. <i>Physical Review A</i> , 2010, 81, .	2.5	23
147	Interaction-driven interband tunneling of bosons in the triple well. <i>New Journal of Physics</i> , 2011, 13, 033032.	2.9	23
148	Local symmetries in one-dimensional quantum scattering. <i>Physical Review A</i> , 2013, 87, .	2.5	23
149	Impact of many-body correlations on the dynamics of an ion-controlled bosonic Josephson junction. <i>Physical Review A</i> , 2016, 93, .	2.5	23
150	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
151	Vortex interaction dynamics in trapped Bose-Einstein condensates. <i>Communications on Pure and Applied Analysis</i> , 2011, 10, 1589-1615.	0.8	23
152	Controlling Ultracold Rydberg Atoms in the Quantum Regime. <i>Physical Review Letters</i> , 2006, 97, 223001.	7.8	22
153	Dark-bright ring solitons in Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 191003.	1.5	22
154	Impact of anisotropy on vortex clusters and their dynamics. <i>Europhysics Letters</i> , 2011, 93, 20008.	2.0	22
155	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
156	Chaotic and ballistic dynamics for two-dimensional electrons in periodic magnetic fields. <i>Physical Review B</i> , 1994, 49, 7418-7423.	3.2	21
157	Effects of anisotropy and magnetic fields on two-electron parabolic quantum dots. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 3633-3646.	1.8	21
158	Probing the shape of quantum dots with magnetic fields. <i>Physical Review B</i> , 2004, 69, .	3.2	21
159	Interaction-induced current-reversals in driven lattices. <i>New Journal of Physics</i> , 2012, 14, 103032.	2.9	21
160	Molecule Formation in Ultrahigh Magnetic Fields. <i>Science</i> , 2012, 337, 302-303.	12.6	21
161	Edge modes of scattering chains with aperiodic order. <i>Optics Letters</i> , 2018, 43, 1986.	3.3	21
162	Correlated quantum dynamics of two quenched fermionic impurities immersed in a Bose-Einstein condensate. <i>Physical Review A</i> , 2019, 100, .	2.5	21

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163	Molecules in Magnetic Fields: Fundamental Aspects. , 1994, , 1-51.		21
164	Regularity and irregularity in the centre of mass motion of the positronium atom in a magnetic field. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, 2697-2708.	1.5	20
165	Interaction of the collective and electronic motion of atomic ions in magnetic fields. Physical Review A, 1995, 52, 130-140.	2.5	20
166	Stationary components of He I in strong magnetic fields - a tool to identify magnetic DB white dwarfs. Astronomy and Astrophysics, 2001, 376, 614-620.	5.1	20
167	Ultralong-range polyatomic Rydberg molecules formed by a polar perturber. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 184005.	1.5	20
168	Phase space interpretation of exponential Fermi acceleration. New Journal of Physics, 2011, 13, 093039.	2.9	20
169	Few-boson tunneling dynamics of strongly correlated binary mixtures in a double well. Physical Review A, 2012, 85, .	2.5	20
170	Classical scattering of charged particles confined on an inhomogeneous helix. Physical Review E, 2013, 88, 043202.	2.1	20
171	Ultracold dipolar few-boson ensembles in a triple-well trap. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 085304.	1.5	20
172	Stretching and bending dynamics in triatomic ultralong-range Rydberg molecules. Physical Review A, 2016, 94, .	2.5	20
173	Quantum dynamics of two trapped bosons following infinite interaction quenches. Physical Review A, 2018, 97, .	2.5	20
174	Delocalization of excitons in a magnetic field. Physical Review B, 1993, 48, 14642-14645.	3.2	19
175	Electric field control in ultralong-range triatomic polar Rydberg molecules. Physical Review A, 2012, 85, .	2.5	19
176	$\langle \text{PT} \rangle$ -symmetry breaking in waveguides with competing loss-gain pairs. Physical Review A, 2016, 93, .	2.5	19
177	Emitter and absorber assembly for multiple self-dual operation and directional transparency. Applied Physics Letters, 2017, 110, .	3.3	19
178	Collective excitations of dipolar gases based on local tunneling in superlattices. Chemical Physics, 2017, 482, 303-310.	1.9	19
179	Spectral properties and breathing dynamics of a few-body Bose-Bose mixture in a 1D harmonic trap. New Journal of Physics, 2018, 20, 015006.	2.9	19
180	Spontaneous generation of dark-bright and dark-antidark solitons upon quenching a particle-imbalanced bosonic mixture. Physical Review A, 2019, 100, .	2.5	19

#	ARTICLE	IF	CITATIONS
181	Quantum Network Transfer and Storage with Compact Localized States Induced by Local Symmetries. <i>Physical Review Letters</i> , 2019, 123, 080504.	7.8	19
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