List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Time crystals: a review. Reports on Progress in Physics, 2018, 81, 016401.	20.1	322
2	Non-standard Hubbard models in optical lattices: a review. Reports on Progress in Physics, 2015, 78, 066001.	20.1	284
3	Simulating lattice gauge theories within quantum technologies. European Physical Journal D, 2020, 74, 1.	1.3	272
4	Routes Towards Anderson-Like Localization of Bose-Einstein Condensates in Disordered Optical Lattices. Physical Review Letters, 2005, 95, 170411.	7.8	214
5	Non-dispersive wave packets in periodically driven quantum systems. Physics Reports, 2002, 368, 409-547.	25.6	151
6	Thouless Time Analysis of Anderson and Many-Body Localization Transitions. Physical Review Letters, 2020, 124, 186601.	7.8	137
7	Symphony on strong field approximation. Reports on Progress in Physics, 2019, 82, 116001.	20.1	123
8	Parametric motion of energy levels in quantum chaotic systems. I. Curvature distributions. Physical Review E, 1993, 47, 1650-1664.	2.1	112
9	Spontaneous emission of atoms coupled to frequency-dependent reservoirs. Physical Review A, 1988, 38, 808-819.	2.5	84
10	Many-body localization due to random interactions. Physical Review A, 2017, 95, .	2.5	82
11	Theory of dressed-state lasers. I. Effective Hamiltonians and stability properties. Physical Review A, 1991, 44, 7717-7731.	2.5	72
12	Cold atoms meet lattice gauge theory. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210064.	3.4	72
13	Mean-field dynamics of the superfluid-insulator phase transition in a gas of ultracold atoms. Physical Review A, 2005, 71, .	2.5	71
14	Polynomially Filtered Exact Diagonalization Approach to Many-Body Localization. Physical Review Letters, 2020, 125, 156601.	7.8	69
15	Time-Resolved Quantum Dynamics of Double Ionization in Strong Laser Fields. Physical Review Letters, 2007, 98, 203002.	7.8	60
16	At the Limits of Criticality-Based Quantum Metrology: Apparent Super-Heisenberg Scaling Revisited. Physical Review X, 2018, 8, .	8.9	59
17	Time dynamics with matrix product states: Many-body localization transition of large systems revisited. Physical Review B, 2020, 101, .	3.2	59
18	Challenges to observation of many-body localization. Physical Review B, 2022, 105, .	3.2	58

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19	Spectra in the chaotic region: Methods for extracting dynamic information. Journal of Chemical Physics, 1989, 90, 1505-1518.	3.0	57
20	Level statistics across the many-body localization transition. Physical Review B, 2019, 99, .	3.2	57
21	Analytic solutions of the two-state problem for a class of chirped pulses. Physical Review A, 1985, 32, 3748-3751.	2.5	54
22	Theory of fluorescence spectra induced by short laser pulses. Journal of the Optical Society of America B: Optical Physics, 1986, 3, 22.	2.1	54
23	Many-body localization of bosons in optical lattices. New Journal of Physics, 2018, 20, 043032.	2.9	53
24	Statistical Properties of Energy Levels of Chaotic Systems: Wigner or Non-Wigner?. Physical Review Letters, 1995, 74, 522-525.	7.8	52
25	Confinement and Lack of Thermalization after Quenches in the Bosonic Schwinger Model. Physical Review Letters, 2020, 124, 180602.	7.8	52
26	Ionization via chaos assisted tunneling. Physical Review E, 1998, 57, 1458-1474.	2.1	49
27	Nonspreading Electronic Wave Packets and Conductance Fluctuations. Physical Review Letters, 1995, 75, 4015-4018.	7.8	45
28	Anderson Localization of Solitons. Physical Review Letters, 2009, 103, 210402.	7.8	45
29	Resonance scattering of a short laser pulse on a two-level system: Time-dependent approach. Physical Review A, 1985, 31, 1558-1562.	2.5	44
30	Non-exponential spontaneous decay in cavities and waveguides. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, L9-L14.	1.5	44
31	Time Crystal Behavior of Excited Eigenstates. Physical Review Letters, 2017, 119, 250602.	7.8	44
32	Parametric motion of energy levels in quantum chaotic systems. II. Avoided-crossing distributions. Physical Review E, 1993, 47, 1665-1676.	2.1	42
33	Ionization of highly excited hydrogen atoms by a circularly polarized microwave field. Physical Review A, 1993, 47, R2468-R2471.	2.5	42
34	Distributions of avoided crossings for quantum chaotic systems. Physical Review Letters, 1991, 67, 2749-2752.	7.8	41
35	Dynamic interpretation of atomic and molecular spectra in the chaotic regime. Physical Review A, 1988, 38, 3732-3748.	2.5	40
36	A Wave Packet Can Be a Stationary State. Europhysics Letters, 1995, 32, 107-112.	2.0	38

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37	Topological time crystals. New Journal of Physics, 2019, 21, 052003.	2.9	38
38	Model of level statistics for disordered interacting quantum many-body systems. Physical Review B, 2020, 101, .	3.2	37
39	Breakdown of adiabaticity when loading ultracold atoms in optical lattices. Physical Review A, 2009, 80, .	2.5	36
40	Multiple Time Scales in the Microwave Ionization of Rydberg Atoms. Physical Review Letters, 1995, 75, 3818-3821.	7.8	35
41	Fast Dynamics for Atoms in Optical Lattices. Physical Review Letters, 2013, 110, 065301.	7.8	35
42	Theory of dressed-state lasers. II. Phase diffusion and squeezing. Physical Review A, 1991, 44, 7732-7745.	2.5	34
43	Theory of dressed-state lasers. III. Pump-depletion effects. Physical Review A, 1991, 44, 7746-7758.	2.5	34
44	Spin-charge separation and many-body localization. Physical Review B, 2018, 98, .	3.2	34
45	Dressed-atom model of lasing without inversion in the double-ĥ configuration. Physical Review A, 1992, 45, 420-423.	2.5	32
46	Mott-insulator phase of the one-dimensional Bose-Hubbard model: A high-order perturbative study. Physical Review A, 2006, 74, .	2.5	32
47	Toolbox for Abelian lattice gauge theories with synthetic matter. Physical Review A, 2017, 95, .	2.5	32
48	Many-body localization in presence of cavity mediated long-range interactions. SciPost Physics, 2019, 7,	4.9	32
49	Many-body localization of bosons in an optical lattice: Dynamics in disorder-free potentials. Physical Review B, 2020, 102, .	3.2	30
50	Lasers without inversion in a Doppler-broadened medium. Physical Review A, 1995, 51, 830-834.	2.5	29
51	Coexistence of localized and extended phases: Many-body localization in a harmonic trap. Physical Review Research, 2020, 2, .	3.6	29
52	Strong-field autoionization by smooth laser pulses. Physical Review A, 1985, 31, 2995-3002.	2.5	28
53	Many-body Anderson localization in one-dimensional systems. New Journal of Physics, 2013, 15, 045021.	2.9	28
54	Many-body localization transition in large quantum spin chains: The mobility edge. Physical Review Research, 2020, 2, .	3.6	28

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55	Compression as a Tool to Detect Bose Glass in a Cold Atomic Gas. Physical Review Letters, 2009, 102, 085301.	7.8	27
56	Density-dependent tunneling in the extended Bose–Hubbard model. New Journal of Physics, 2013, 15, 113041.	2.9	27
57	Spectra in the chaotic region: A quantum analysis of the photodissociation of H+3. Journal of Chemical Physics, 1988, 89, 5959-5960.	3.0	26
58	Spontaneous emission of nondispersive Rydberg wave packets. Physical Review A, 1998, 58, 466-477.	2.5	26
59	Quantum model for double ionization of atoms in strong laser fields. Physical Review A, 2008, 78, .	2.5	26
60	Disordered spinor Bose-Hubbard model. Physical Review A, 2011, 83, .	2.5	26
61	Dynamics of cold bosons in optical lattices: effects of higher Bloch bands. New Journal of Physics, 2013, 15, 013062.	2.9	25
62	Rice–Mele model with topological solitons in an optical lattice. New Journal of Physics, 2015, 17, 013018.	2.9	25
63	Extended Bose-Hubbard model with dipolar and contact interactions. Physical Review B, 2018, 97, .	3.2	25
64	Simple method for excitation of a Bose-Einstein condensate. Physical Review A, 2001, 65, .	2.5	24
65	Many-body localization in tilted and harmonic potentials. Physical Review B, 2021, 104, .	3.2	24
66	Stabilization in circularly polarized light: Floquet-adiabatic versus exact treatment. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, L667-L672.	1.5	23
67	Many-Body Localization for Randomly Interacting Bosons. Acta Physica Polonica A, 2017, 132, 1707-1712.	0.5	23
68	Statistical properties of random scattering matrices. Physical Review E, 1996, 54, 2438-2446.	2.1	22
69	Analysis of localization phenomena in weakly interacting disordered lattice gases. New Journal of Physics, 2006, 8, 230-230.	2.9	22
70	A Model for motion in the chaotic regime: Classical and quantum viewpoints. Chemical Physics Letters, 1988, 145, 555-561.	2.6	21
71	Two-dimensional quantum hydrogen atom in circularly polarized microwaves: Global properties. Physical Review A, 1996, 54, 691-709.	2.5	21
72	Numerical studies of ground-state fidelity of the Bose-Hubbard model. Physical Review A, 2014, 89, .	2.5	21

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73	Different lattice geometries with a synthetic dimension. Physical Review A, 2016, 94, .	2.5	21
74	Energy level dynamics across the many-body localization transition. Physical Review B, 2019, 99, .	3.2	21
75	Breakdown of correspondence in chaotic systems: Ehrenfest versus localization times. Physical Review A, 2002, 65, .	2.5	20
76	Tunable dipolar resonances and Einstein-de Haas effect in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Rb<mml:mprescripts></mml:mprescripts><mml:none /><mml:mrow><mml:mn>87</mml:mn></mml:mrow>-atom</mml:none </mml:mi </mml:mmultiscripts></mml:math 	2.5	20
77	Quantum spin models with long-range interactions and tunnelings: a quantum Monte Carlo study. New Journal of Physics, 2012, 14, 113006.	2.9	20
78	Frustration and time-reversal symmetry breaking for Fermi and Bose-Fermi systems. Physical Review A, 2012, 85, .	2.5	20
79	Discrete disorder models for many-body localization. Physical Review B, 2018, 97, .	3.2	20
80	Fidelity susceptibility in Gaussian random ensembles. Physical Review E, 2019, 99, 050102.	2.1	20
81	Finite-size scaling analysis of the many-body localization transition in quasiperiodic spin chains. Physical Review B, 2021, 104, .	3.2	20
82	Theory of dressed-state lasers in the bad-cavity limit. Physical Review A, 1992, 45, 2057-2069.	2.5	19
83	<i>Ab initio</i> study of time-dependent dynamics in strong-field triple ionization. Physical Review A, 2018, 98, .	2.5	19
84	Many-body localization in the Bose-Hubbard model: Evidence for mobility edge. Physical Review B, 2020, 102, .	3.2	19
85	Staggered superfluid phases of dipolar bosons in two-dimensional square lattices. Physical Review B, 2020, 102, .	3.2	19
86	Constraint-Induced Delocalization. Physical Review Letters, 2021, 127, 126603.	7.8	19
87	Nonsequential double ionization of molecules. Physical Review A, 2005, 71, .	2.5	18
88	Phase effects in double ionization by strong short pulses. Chemical Physics, 2010, 370, 168-174.	1.9	18
89	Dipolar bosons on an optical lattice ring. Physical Review A, 2011, 84, .	2.5	18
90	Two bosonic quantum walkers in one-dimensional optical lattices. Physical Review A, 2017, 96, .	2.5	18

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91	Scar states in deconfined <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="double-struck">Z<mml:mn>2</mml:mn></mml:mi </mml:msub> lattice gauge theories. Physical Review B, 2022, 106, .</mml:math 	3.2	18
92	Quantum scars on a sphere. Physical Review A, 1991, 43, 4244-4248.	2.5	17
93	Ionization of hydrogen atoms by circularly polarized microwaves. Physical Review A, 1995, 51, 1508-1519.	2.5	17
94	Tunneling-Induced Restoration of the Degeneracy and the Time-Reversal Symmetry Breaking in Optical Lattices. Physical Review Letters, 2013, 111, 215302.	7.8	17
95	Semiclassical quantization via adiabatic switching. I. Choice of tori and initial conditions for two-dimensional systems. Physical Review A, 1988, 38, 3877-3899.	2.5	16
96	Adiabatic mechanism of wave-function localization in the globally chaotic system. Physical Review A, 1990, 42, 7172-7182.	2.5	16
97	Conductance fluctuations in microwave-driven Rydberg atoms. Europhysics Letters, 1998, 44, 162-167.	2.0	16
98	Method for collective excitation of a Bose-Einstein condensate. Physical Review A, 2001, 63, .	2.5	16
99	Nonergodic dynamics in disorder-free potentials. Annals of Physics, 2021, 435, 168540.	2.8	16
100	Simple model for strong-laser-field ionization. Physical Review A, 1987, 36, 4311-4320.	2.5	15
101	A numerical method for locating stable periodic orbits in chaotic systems. Physica D: Nonlinear Phenomena, 1992, 56, 368-380.	2.8	15
102	Time reversals of irreversible quantum maps. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 38FT01.	2.1	15
103	Self-organized topological insulator due to cavity-mediated correlated tunneling. Quantum - the Open Journal for Quantum Science, 0, 5, 501.	0.0	15
104	Chaotic Rydberg Atoms with Broken Time-Reversal Symmetry. Physical Review Letters, 1999, 83, 2922-2925.	7.8	14
105	Restricted-space <i>ab initio</i> models for double ionization by strong laser pulses. Physical Review A, 2018, 98, .	2.5	14
106	Superfluid phases induced by dipolar interactions. Physical Review B, 2020, 101, .	3.2	14
107	Semiclassical quantization via adiabatic switching. II. Choice of tori and initial conditions for multidimensional systems. Physical Review A, 1988, 38, 3900-3908.	2.5	13
108	Parametric spectral correlations of disordered systems in the Fourier domain. Physical Review E, 1995, 52, 2220-2235.	2.1	13

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109	Resonances in the Diamagnetic Rydberg Spectrum: Order and Chaos. Europhysics Letters, 1995, 31, 251-256.	2.0	13
110	Accurate determination of the superfluid-insulator transition in the one-dimensional Bose-Hubbard model. , 2008, , .		13
111	Nonuniversality in level dynamics. Physical Review E, 1997, 55, 2446-2454.	2.1	12
112	Single-particle localization in dynamical potentials. Physical Review A, 2018, 98, .	2.5	12
113	A systematic construction of Gaussian basis sets for the description of laser field ionization and high-harmonic generation. Journal of Chemical Physics, 2021, 154, 094111.	3.0	12
114	On ?Universal? correlations in disordered and chaotic systems. European Physical Journal B, 1995, 98, 273-277.	1.5	11
115	Resonance overlap criterion for H atom ionization by circularly polarized microwave fields. Physical Review A, 1997, 55, 568-576.	2.5	11
116	H-atom ionization by elliptically polarized microwave fields: The overlap criterion. Physical Review A, 1997, 56, 719-728.	2.5	11
117	Two-component Bose-Hubbard model with higher-angular-momentum states. Physical Review A, 2012, 85, .	2.5	11
118	Semiclassical study of â€~double-lambda' laser without inversion. Optics Communications, 1994, 107, 145-160.	2.1	10
119	How to build experimentally a non-spreading wavepacket. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, L87-L93.	1.5	10
120	Controlling disorder with periodically modulated interactions. Physical Review A, 2015, 92, .	2.5	10
121	Spontaneous magnetization and anomalous Hall effect in an emergent Dice lattice. Scientific Reports, 2015, 5, 11060.	3.3	10
122	Fibonacci anyon excitations of one-dimensional dipolar lattice bosons. Physical Review B, 2017, 95, .	3.2	10
123	Many-body localization with synthetic gauge fields in disordered Hubbard chains. Physical Review B, 2020, 101, .	3.2	10
124	Nondispersive wave packets as solitonic solutions of level dynamics. Zeitschrift Für Physik B-Condensed Matter, 1997, 103, 115-122.	1.1	9
125	Collective excitation of trapped degenerate Fermi gases. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, L153-L159.	1.5	9
126	Experimentally attainable example of chaotic tunneling: The hydrogen atom in parallel static electric and magnetic fields. Physical Review A, 2003, 68, .	2.5	9

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127	Fermi-Dirac statistics and the number theory. Europhysics Letters, 2005, 72, 506-512.	2.0	9
128	Suppression of correlated electron escape in double ionization in strong laser fields. Physical Review A, 2008, 77, .	2.5	9
129	Numerical computation of dynamically important excited states of many-body systems. Physical Review A, 2012, 86, .	2.5	9
130	Locating the quantum critical point of the Bose-Hubbard model through singularities of simple observables. Scientific Reports, 2016, 6, 38340.	3.3	9
131	Impact of geometry on many-body localization. Physical Review B, 2018, 98, .	3.2	9
132	Many-body localization in a one-dimensional optical lattice with speckle disorder. Physical Review B, 2020, 102, .	3.2	9
133	Theoretical explanation of the first experimentally observed laser without inversion in a two-level scheme. Physical Review A, 1992, 46, 6010-6014.	2.5	8
134	Ionization of H Rydberg atoms by microwaves: Pulse-shape influence on the algebraic decay. Physical Review A, 1994, 50, 4408-4411.	2.5	8
135	H-atom ionization by elliptically polarized microwave fields: Three-dimensional analysis. Physical Review A, 1998, 58, 488-497.	2.5	8
136	H atom in elliptically polarized microwaves:â€,Semiclassical versus quantum resonant dynamics. Physical Review A, 1998, 58, 3974-3982.	2.5	8
137	Breaking Time Reversal Symmetry in Chaotic Driven Rydberg Atoms. Annals of Physics, 2000, 283, 141-172.	2.8	8
138	Stirring a BoseÂEinstein condensate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 4051-4057.	1.5	8
139	Double ionization of a three-electron atom: Spin correlation effects. Physical Review A, 2019, 100, .	2.5	8
140	Quantum boomerang effect for interacting particles. Physical Review A, 2020, 102, .	2.5	8
141	Ergodicity breaking with long-range cavity-induced quasiperiodic interactions. Physical Review B, 2021, 103, .	3.2	8
142	Classical aspects of quantum localization in microwave ionization of H atoms. Physical Review A, 1995, 52, R2523-R2526.	2.5	7
143	Reexamination of the variational Bose-Hubbard model. Physical Review A, 2014, 89, .	2.5	7

Strong-field ionization of atoms with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>p</mml:mi><mml:mn>3</mml:mn>dmml:msup></mml:n valence shell: Two versus three active electrons. Physical Review A, 2020, 101, . 144

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145	Three-electron correlations in strong laser field ionization. Optics Express, 2021, 29, 26526.	3.4	7
146	Detecting ergodic bubbles at the crossover to many-body localization using neural networks. Physical Review B, 2021, 104, .	3.2	7
147	On intermediate statistics across many-body localization transition. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 014001.	2.1	7
148	Yang-Mills classical mechanics revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 327, 67-69.	4.1	6
149	Spin Effects in Bose-Glass Phases. Journal of Low Temperature Physics, 2011, 165, 227-238.	1.4	6
150	Wannier functions for one-dimensionalsâ^'poptical superlattices. Physical Review A, 2014, 90, .	2.5	6
151	Strong-field triple ionisation of atoms with p ³ valence shell. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 114001.	1.5	6
152	Comment on "New States of Hydrogen in a Circularly Polarized Electromagnetic Field― Physical Review Letters, 1997, 79, 3541-3541.	7.8	5
153	Driven Rydberg Atoms Reveal Quartic Level Repulsion. Physical Review Letters, 2001, 86, 2269-2272.	7.8	5
154	Topological Rice-Mele model in an emergent lattice: Exact diagonalization approach. Physical Review A, 2016, 93, .	2.5	5
155	Route to chaos in a coupled microresonator system with gain and loss. Nonlinear Dynamics, 2019, 97, 559-569.	5.2	5
156	A dark state of Chern bands: Designing flat bands with higher Chern number. SciPost Physics, 2021, 10, .	4.9	5
157	Devil's staircase of topological Peierls insulators and Peierls supersolids. SciPost Physics, 2022, 12, .	4.9	5
158	Quantum boomerang effect in systems without time-reversal symmetry. Physical Review B, 2022, 105, .	3.2	5
159	Unsupervised detection of decoupled subspaces: Many-body scars and beyond. Physical Review B, 2022, 105, .	3.2	5
160	Resonant dynamics of the H atom in an elliptically polarized microwave field. Physical Review A, 1999, 59, 1707-1710.	2.5	4
161	Properties of the one-dimensional Bose–Hubbard model from a high-order perturbative expansion. New Journal of Physics, 2015, 17, 125010.	2.9	4
162	Rescattering effects in streaking experiments of strong-field ionization. Physical Review A, 2019, 100, .	2.5	4

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163	Optical lattice for a tripodlike atomic level structure. Physical Review A, 2021, 104, .	2.5	4
164	Ionization of hydrogen atoms by circularly polarized microwaves. , 1997, , 205-232.		3
165	Bose-Hubbard model with random impurities: Multiband and nonlinear hopping effects. Physical Review A, 2014, 90, .	2.5	3
166	Dynamics of heat and mass transport in a quantum insulator. Physical Review B, 2015, 91, .	3.2	3
167	Synthetic random flux model in a periodically driven optical lattice. Physical Review A, 2017, 96, .	2.5	3
168	Pulsed dressed-state lasers. Physical Review A, 1992, 46, 2877-2886.	2.5	2
169	Many body population trapping in ultracold dipolar gases. New Journal of Physics, 2014, 16, 052002.	2.9	2
170	Many-body localization regime for cavity-induced long-range interacting models. Physical Review B, 2022, 105, .	3.2	2
171	Phase Diagram of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>+</mml:mo><mml:mn>1mathvariant="normal">D</mml:mn></mml:mrow></mml:math> Abelian-Higgs Model and Its Critical Point. Physical Review Letters, 2022, 128, 090601.	7.8	2
172	Time evolution in a driven quantum system: Excitation through bands of states. Physical Review A, 1988, 38, 5602-5608.	2.5	1
173	Electron spin polarisation in laser induced autoionisation. Optics Communications, 1985, 53, 99-103.	2.1	0
174	Level Crossing in a Frequency-dependent Photon Reservoir. Journal of Modern Optics, 1991, 38, 1309-1326.	1.3	0
175	Power-Law Decay in the Ionization of H Rydberg Atoms. Open Systems and Information Dynamics, 1997, 4, 323-326.	1.2	0
176	Momentum distributions after double ionization. Chaos, 2008, 18, 041110.	2.5	0
177	Publisher's Note: Controlling disorder with periodically modulated interactions [Phys. Rev. A92, 023606 (2015)]. Physical Review A, 2015, 92, .	2.5	0
178	Hanle Effect in Frequency Dependent Photon Reservoir. , 1990, , 1269-1272.		0
179	Triple-Ionization in Strong-Laser Fields. , 2021, , .		0