

Lars Bojer Madsen

List of Publications by Year in descending order

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271
papers

8,548
citations

36303

51
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64796

79
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277
all docs

277
docs citations

277
times ranked

3468
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement and laser control of attosecond charge migration in ionized iodoacetylene. <i>Science</i> , 2015, 350, 790-795.	12.6	463
2	Photoelectron angular distributions from strong-field ionization of oriented molecules. <i>Nature Physics</i> , 2010, 6, 428-432.	16.7	349
3	Attoclock reveals natural coordinates of the laser-induced tunnelling current flow in atoms. <i>Nature Physics</i> , 2012, 8, 76-80.	16.7	330
4	Quantum Gates and Multiparticle Entanglement by Rydberg Excitation Blockade and Adiabatic Passage. <i>Physical Review Letters</i> , 2008, 100, 170504.	7.8	219
5	Theory of tunneling ionization of molecules: Weak-field asymptotics including dipole effects. <i>Physical Review A</i> , 2011, 84, .	2.5	147
6	Electron Vortices in Photoionization by Circularly Polarized Attosecond Pulses. <i>Physical Review Letters</i> , 2015, 115, 113004.	7.8	141
7	Strong-field ionization of N ₂ : length and velocity gauge strong-field approximation and tunnelling theory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 2033-2044.	1.5	134
8	Time-dependent restricted-active-space self-consistent-field theory for laser-driven many-electron dynamics. <i>Physical Review A</i> , 2013, 87, .	2.5	117
9	Semiclassical two-step model for strong-field ionization. <i>Physical Review A</i> , 2016, 94, .	2.5	114
10	Probing the Longitudinal Momentum Spread of the Electron Wave Packet at the Tunnel Exit. <i>Physical Review Letters</i> , 2012, 109, 083002.	7.8	111
11	Ionization in elliptically polarized pulses: Multielectron polarization effects and asymmetry of photoelectron momentum distributions. <i>Physical Review A</i> , 2012, 85, .	2.5	108
12	Strong-field ionization of polar molecules: Stark-shift-corrected strong-field approximation. <i>Physical Review A</i> , 2010, 82, .	2.5	104
13	Manipulating the Torsion of Molecules by Strong Laser Pulses. <i>Physical Review Letters</i> , 2009, 102, 073007.	7.8	102
14	Strong-field ionization of diatomic molecules and companion atoms: Strong-field approximation and tunneling theory including nuclear motion. <i>Physical Review A</i> , 2005, 71, .	2.5	95
15	Spin squeezing and precision probing with light and samples of atoms in the Gaussian description. <i>Physical Review A</i> , 2004, 70, .	2.5	92
16	Multiphoton Electron Angular Distributions from Laser-Aligned CS_2 Molecules. <i>Physical Review Letters</i> , 2008, 100, 093006.	7.8	92
17	Extending the strong-field approximation of high-order harmonic generation to polar molecules: gating mechanisms and extension of the harmonic cutoff. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 155602.	1.5	91
18	Extracting continuum information from $\hat{I}^t(\omega)$ time-dependent wave-packet calculations. <i>Physical Review A</i> , 2007, 76, .	2.5	90

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19	Gauge invariance in the interaction between atoms and few-cycle laser pulses. <i>Physical Review A</i> , 2002, 65, .	2.5	88
20	High-order harmonic generation from arbitrarily oriented diatomic molecules including nuclear motion and field-free alignment. <i>Physical Review A</i> , 2006, 74, .	2.5	84
21	Influence of molecular symmetry on strong-field ionization: Studies on ethylene, benzene, fluorobenzene, and chlorofluorobenzene. <i>Physical Review A</i> , 2005, 71, .	2.5	83
22	Control and femtosecond time-resolved imaging of torsion in a chiral molecule. <i>Journal of Chemical Physics</i> , 2012, 136, 204310.	3.0	83
23	Time-Resolved Photoelectron Angular Distributions from Strong-Field Ionization of Rotating Naphthalene Molecules. <i>Physical Review Letters</i> , 2011, 106, 073001.	7.8	81
24	Application of the weak-field asymptotic theory to the analysis of tunneling ionization of linear molecules. <i>Physical Review A</i> , 2012, 85, .	2.5	81
25	Multistart spiral electron vortices in ionization by circularly polarized UV pulses. <i>Physical Review A</i> , 2016, 94, .	2.5	78
26	Time-dependent restricted-active-space self-consistent-field theory for laser-driven many-electron dynamics. II. Extended formulation and numerical analysis. <i>Physical Review A</i> , 2014, 89, .	2.5	77
27	Ionization of oriented carbonyl sulfide molecules by intense circularly polarized laser pulses. <i>Physical Review A</i> , 2011, 83, .	2.5	75
28	Geometric phase gates based on stimulated Raman adiabatic passage in tripod systems. <i>Physical Review A</i> , 2007, 75, .	2.5	73
29	Orientation-dependent ionization yields from strong-field ionization of fixed-in-space linear and asymmetric top molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 015101.	1.5	73
30	On the dipole, velocity and acceleration forms in high-order harmonic generation from a single atom or molecule. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 115601.	1.5	71
31	Structure factors for tunneling ionization rates of molecules. <i>Physical Review A</i> , 2013, 87, .	2.5	70
32	Comparison between length and velocity gauges in quantum simulations of high-order harmonic generation. <i>Physical Review A</i> , 2010, 81, .	2.5	69
33	Time-dependent generalized-active-space configuration-interaction approach to photoionization dynamics of atoms and molecules. <i>Physical Review A</i> , 2014, 90, .	2.5	68
34	Observation of laser-induced electronic structure in oriented polyatomic molecules. <i>Nature Communications</i> , 2015, 6, 7039.	12.8	68
35	Theory of strong-field ionization of aligned CO_2 . <i>Physical Review A</i> , 2009, 80, .	2.5	67
36	<i>Colloquium</i> : Multiconfigurational time-dependent Hartree approaches for indistinguishable particles. <i>Reviews of Modern Physics</i> , 2020, 92, .	45.6	67

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37	Solving the mixing problem for the three-dimensional time-dependent Schrödinger equation by rotations: Application to strong-field ionization of H ₂ ⁺ . Physical Review A, 2007, 75, .	2.5	66
38	Ionization of one- and three-dimensionally-oriented asymmetric-top molecules by intense circularly polarized femtosecond laser pulses. Physical Review A, 2011, 83, .	2.5	66
39	Exact Nondipole Kramers-Henneberger Form of the Light-Atom Hamiltonian: An Application to Atomic Stabilization and Photoelectron Energy Spectra. Physical Review Letters, 2005, 95, 043601.	7.8	65
40	Role of symmetry in strong-field ionization of molecules. Physical Review A, 2003, 68, .	2.5	62
41	Symmetry of Carrier-Envelope Phase Difference Effects in Strong-Field, Few-Cycle Ionization of Atoms and Molecules. Physical Review Letters, 2006, 97, 093001.	7.8	62
42	Dynamic Stark Control of Torsional Motion by a Pair of Laser Pulses. Physical Review Letters, 2014, 113, 073005.	7.8	60
43	Illuminating Molecular Symmetries with Bircircular High-Order-Harmonic Generation. Physical Review Letters, 2016, 117, 133902.	7.8	60
44	Nondipole Ionization Dynamics of Atoms in Superintense High-Frequency Attosecond Pulses. Physical Review Letters, 2006, 97, 043601.	7.8	59
45	Molecular-Frame 3D Photoelectron Momentum Distributions by Tomographic Reconstruction. Physical Review Letters, 2012, 109, 123001.	7.8	59
46	Electron-Nuclear Energy Sharing in Above-Threshold Multiphoton Dissociative Ionization of H_2^+ . Physical Review Letters, 2013, 111, 023002.	7.8	59
47	Single-active-electron potentials for molecules in intense laser fields. Physical Review A, 2010, 81, .	2.5	58
48	A combined experimental and theoretical study on realizing and using laser controlled torsion of molecules. Journal of Chemical Physics, 2009, 130, 234310.	3.0	55
49	Multiphoton Above Threshold Effects in Strong-Field Fragmentation. Physical Review Letters, 2012, 109, 163003.	7.8	54
50	Weak-field asymptotic theory of tunneling ionization in many-electron atomic and molecular systems. Physical Review A, 2014, 89, .	2.5	53
51	Finite-system effects on high-order harmonic generation: From atoms to solids. Physical Review A, 2018, 97, .	2.5	53
52	Strong-field approximation in laser-assisted dynamics. American Journal of Physics, 2005, 73, 57-62.	0.7	48
53	Enhanced high-order harmonic generation in donor-doped band-gap materials. Physical Review A, 2019, 99, .	2.5	48
54	Polarization Effects in Attosecond Photoelectron Spectroscopy. Physical Review Letters, 2010, 104, 043602.	7.8	47

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55	Ab initio studies of strong-field ionization of arbitrarily oriented H ₂ ⁺ molecules. <i>Physical Review A</i> , 2006, 74, .	2.5	46
56	Scaling of hydrogenic atoms and ions interacting with laser fields: Positronium in a laser field. <i>Physical Review A</i> , 1999, 59, 4574-4579.	2.5	45
57	Blackbody-Radiation-Assisted Laser Cooling of Molecular Ions. <i>Physical Review Letters</i> , 2002, 89, 173003.	7.8	45
58	Vibrational Excitation of Diatomic Molecular Ions in Strong Field Ionization of Diatomic Molecules. <i>Physical Review Letters</i> , 2005, 95, 073004.	7.8	45
59	Photoelectron angular distributions from polar molecules probed by intense femtosecond lasers. <i>Physical Review A</i> , 2010, 82, .	2.5	45
60	High-order harmonic generation from gapped graphene: Perturbative response and transition to nonperturbative regime. <i>Physical Review B</i> , 2017, 95, .	3.2	45
61	Tunneling ionization of atoms. <i>American Journal of Physics</i> , 2004, 72, 249-254.	0.7	44
62	First-order correction terms in the weak-field asymptotic theory of tunneling ionization. <i>Physical Review A</i> , 2013, 87, .	2.5	43
63	Theory for time-resolved measurements of laser-induced electron emission from metal surfaces. <i>Physical Review A</i> , 2008, 78, .	2.5	42
64	Role of Multi-Electron Effects in the Asymmetry of Strong-Field Ionization and Fragmentation of Polar Molecules: The Methyl Halide Series. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11772-11782.	2.5	42
65	Ionization and excitation dynamics of H(1s) in short intense laser pulses. <i>Physical Review A</i> , 2001, 64, .	2.5	41
66	Counterintuitive angular shifts in the photoelectron momentum distribution for atoms in strong few-cycle circularly polarized laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 161001.	1.5	41
67	Low-Energy Photoelectrons in Strong-Field Ionization by Laser Pulses with Large Ellipticity. <i>Physical Review Letters</i> , 2014, 113, 103005.	7.8	41
68	Rotational cooling of heteronuclear molecular ions with $\hat{1}, \hat{2}, \hat{3}$, and $\hat{2}$ electronic ground states. <i>Physical Review A</i> , 2004, 70, .	2.5	40
69	Estimation of a classical parameter with Gaussian probes: Magnetometry with collective atomic spins. <i>Physical Review A</i> , 2004, 70, .	2.5	40
70	Kinematical vortices in double photoionization of helium by attosecond pulses. <i>Physical Review A</i> , 2017, 96, .	2.5	40
71	Strong Orientation Effects in Ionization of H ₂ ⁺ by Short, Intense, High-Frequency Light Pulses. <i>Physical Review Letters</i> , 2005, 95, 093002.	7.8	39
72	Time-dependent restricted-active-space self-consistent-field singles method for many-electron dynamics. <i>Journal of Chemical Physics</i> , 2014, 140, 164309.	3.0	39

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73	Interrogation of orbital structure by elliptically polarized intense femtosecond laser pulses. <i>Physical Review A</i> , 2011, 84, .	2.5	38
74	Theory of laser-assisted electron-atom scattering: beyond the Kroll-Watson approximation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, 5327-5342.	1.5	36
75	Internuclear-distance dependence of the role of excited states in high-order-harmonic generation of H^{2+} . <i>Physical Review A</i> , 2013, 87, .	2.5	36
76	in intense laser fields: mechanisms for enhanced ionization in the multiphoton regime. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, 87-104.	1.5	35
77	Geometric phases in open tripod systems. <i>Physical Review A</i> , 2008, 77, .	2.5	35
78	Two-center minima in harmonic spectra from aligned polar molecules. <i>Physical Review A</i> , 2011, 84, .	2.5	35
79	Nuclear-motion effects in attosecond transient-absorption spectroscopy of molecules. <i>Physical Review A</i> , 2015, 91, .	2.5	34
80	Electron emission during combined attosecond pulses. <i>Physical Review A</i> , 2003, 68, .	2.5	33
81	Alignment- and orientation-dependent strong-field ionization of molecules: Field-induced orbital distortion effects. <i>Physical Review A</i> , 2015, 91, .	2.5	33
82	Rotating-frame perspective on high-order-harmonic generation of circularly polarized light. <i>Physical Review A</i> , 2016, 93, .	2.5	33
83	Inducing elliptically polarized high-order harmonics from aligned molecules with linearly polarized femtosecond pulses. <i>Physical Review A</i> , 2010, 81, .	2.5	32
84	Extraction of electron-ion differential scattering cross sections for $C^{2+}H^{4+}$ by laser-induced rescattering photoelectron spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 131001.	1.5	32
85	Dissociation and dissociative ionization of H^{2+} using the time-dependent surface flux method. <i>Physical Review A</i> , 2013, 88, .	2.5	31
86	Time-dependent restricted-active-space self-consistent-field theory for bosonic many-body systems. <i>New Journal of Physics</i> , 2017, 19, 043007.	2.9	31
87	High-order harmonic generation in imperfect crystals. <i>Physical Review A</i> , 2019, 99, .	2.5	30
88	Excitation in Ion-Atom Collisions Inside Subfemtosecond Laser Pulses. <i>Physical Review Letters</i> , 2002, 89, 093202.	7.8	29
89	Nonlinear Dichroism in Back-to-Back Double Ionization of He by an Intense Elliptically Polarized Few-Cycle Extreme Ultraviolet Pulse. <i>Physical Review Letters</i> , 2014, 113, 223002.	7.8	29
90	Laser-Induced Transitions between Triply Excited Hollow States. <i>Physical Review Letters</i> , 2000, 85, 42-45.	7.8	28

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91	Ionization of oriented targets by intense circularly polarized laser pulses: Imprints of orbital angular nodes in the two-dimensional momentum distribution. <i>Physical Review A</i> , 2010, 81, .	2.5	28
92	Attosecond transient absorption spectroscopy of molecular nitrogen: Vibrational coherences in the $\hat{\epsilon}^2 1\hat{\epsilon}+u$ state. <i>Chemical Physics Letters</i> , 2017, 683, 408-415.	2.6	28
93	Dynamical electron vortices in attosecond double photoionization of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \langle \text{mml:mi mathvariant="normal"} \rangle \text{H} \langle \text{mml:mi} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. <i>Physical Review A</i> , 2018, 98, .	2.5	28
94	Monte-Carlo Wave Packet Theory of Dissociative Double Ionization. <i>Physical Review Letters</i> , 2009, 103, 183601.	7.8	27
95	Theory of attosecond absorption spectroscopy in krypton. <i>Physical Review A</i> , 2012, 85, .	2.5	27
96	Strong-field ionization of atoms and molecules: The two-term saddle-point method. <i>Physical Review A</i> , 2006, 74, .	2.5	26
97	Minimum in the high-order harmonic generation spectrum from molecules: role of excited states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 225601.	1.5	26
98	Application of the weak-field asymptotic theory to tunneling ionization of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \langle \text{mml:mi mathvariant="normal"} \rangle \text{H} \langle \text{mml:mi} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$. <i>Physical Review A</i> , 2014, 89, .	2.5	26
99	Probabilistic state preparation of a single molecular ion by projection measurement. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S1259-S1265.	1.5	25
100	Theoretical studies of high-order harmonic generation: Effects of symmetry, degeneracy, and orientation. <i>Physical Review A</i> , 2007, 76, .	2.5	25
101	Molecules in intense xuv pulses: Beyond the dipole approximation in linearly and circularly polarized fields. <i>Physical Review A</i> , 2007, 76, .	2.5	25
102	Structure factors for tunneling ionization rates of diatomic molecules. <i>Atomic Data and Nuclear Data Tables</i> , 2015, 103-104, 4-49.	2.4	25
103	Magnetometry with entangled atomic samples. <i>Physical Review A</i> , 2005, 71, .	2.5	24
104	The N-dimensional Coulomb problem: Stark effect in hyperparabolic and hyperspherical coordinates. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 1097-1104.	2.1	24
105	Spectral and partial-wave decomposition of time-dependent wave functions on a grid: Photoelectron spectra of H and H ₂ in electromagnetic fields. <i>Physical Review A</i> , 2007, 75, .	2.5	24
106	Laser-induced transitions between triply excited hollow states. <i>Physical Review A</i> , 2000, 62, .	2.5	23
107	Three-dimensional time-dependent Hartree-Fock approach for arbitrarily oriented molecular hydrogen in strong electromagnetic fields. <i>Physical Review A</i> , 2007, 76, .	2.5	23
108	Dissociative ionization of H ₂ using intense femtosecond XUV laser pulses. <i>Physical Review A</i> , 2014, 90, .	2.5	23

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109	Theory of low-energy photoelectrons in strong-field ionization by laser pulses with large ellipticity. <i>Physical Review A</i> , 2015, 91, .	2.5	23
110	Geometrical dependence in photoionization of H_2^+ in high-intensity, high-frequency, ultrashort laser pulses. <i>Physical Review A</i> , 2006, 73, .	2.5	22
111	Effects of orientation and alignment in high-order harmonic generation and above-threshold ionization. <i>Physical Review A</i> , 2007, 76, .	2.5	22
112	Strong-field-ionization suppression by light-field control. <i>Physical Review A</i> , 2012, 86, .	2.5	22
113	Crystal-momentum-resolved contributions to multiple plateaus of high-order harmonic generation from band-gap materials. <i>Physical Review A</i> , 2020, 102, .	2.5	22
114	Retardation Effects and the Born-Oppenheimer Approximation: Theory of Tunneling Ionization of Molecules Revisited. <i>Physical Review Letters</i> , 2013, 111, 153003.	7.8	21
115	Field-induced orbital distortion in high-order-harmonic generation from aligned and oriented molecules within adiabatic strong-field approximation. <i>Physical Review A</i> , 2014, 89, .	2.5	21
116	Nondipole strong-field-approximation Hamiltonian. <i>Physical Review A</i> , 2020, 101, .	2.5	21
117	High-order harmonic generation from polyatomic molecules including nuclear motion and a nuclear modes analysis. <i>Physical Review A</i> , 2010, 81, .	2.5	20
118	Multispecies time-dependent restricted-active-space self-consistent-field theory for ultracold atomic and molecular gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 155302.	1.5	20
119	Effect of multielectron polarization in the strong-field ionization of the oriented CO molecule. <i>Physical Review A</i> , 2020, 101, .	2.5	20
120	Time delays in cold elastic scattering. <i>Journal of Chemical Physics</i> , 2003, 118, 1679-1683.	3.0	19
121	Comment on "Strong-field ionization of laser-irradiated light homonuclear diatomic molecules: A generalized strong-field approximation" combination of atomic orbitals model. <i>Physical Review A</i> , 2006, 73, .	2.5	19
122	Alignment-dependent strong-field ionization yields of carbonyl sulfide molecules induced by mid-infrared laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 205601.	1.5	18
123	Signatures of a Conical Intersection in Attosecond Transient Absorption Spectroscopy. <i>Physical Review Letters</i> , 2018, 121, 023203.	7.8	18
124	Ionization and excitation dynamics of $H(1s)$ in short intense laser pulses. II. <i>Physical Review A</i> , 2002, 66, .	2.5	17
125	Triply excited states: electron-electron correlations in lithium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, R223-R278.	1.5	17
126	Rotational cooling of molecular ions through laser-induced coupling to the collective modes of a two-ion Coulomb crystal. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S1267-S1280.	1.5	17

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127	Finite-bandwidth effects in strong-field ionization of atoms by few-cycle circularly polarized laser pulses. <i>Physical Review A</i> , 2007, 76, .	2.5	17
128	High-order-harmonic generation from field-distorted orbitals. <i>Physical Review A</i> , 2013, 87, .	2.5	17
129	Attosecond transient-absorption spectroscopy on aligned molecules. <i>Physical Review A</i> , 2016, 94, .	2.5	17
130	Floquet-Bloch shifts in two-band semiconductors interacting with light. <i>Physical Review A</i> , 2017, 95, .	2.5	17
131	Multiphoton intrashell resonances in Rydberg atoms: Bloch-Siegert shifts and widths. <i>Physical Review A</i> , 2004, 69, .	2.5	16
132	Electron-correlation effects in enhanced ionization of molecules: A time-dependent generalized-active-space configuration-interaction study. <i>Physical Review A</i> , 2015, 92, .	2.5	16
133	Sequential and nonsequential double ionization of helium by intense XUV laser pulses: Revealing ac Stark shifts from joint energy spectra. <i>Physical Review A</i> , 2016, 94, .	2.5	16
134	Time-dependent restricted-active-space self-consistent-field theory with space partition. <i>Physical Review A</i> , 2017, 95, .	2.5	16
135	Multiphoton ionization of H ₂ by intense light: A comparison of Floquet and wave-packet results. <i>Physical Review A</i> , 1998, 58, 456-465.	2.5	15
136	From multiphoton to tunnelling ionization of neon and argon. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 151001.	1.5	15
137	Strong-field short-pulse nondipole dynamics. <i>Physical Review A</i> , 2009, 80, .	2.5	15
138	Light-induced structures in attosecond transient-absorption spectroscopy of molecules. <i>Physical Review A</i> , 2015, 92, .	2.5	15
139	Inter- and intracycle interference effects in strong-field dissociative ionization. <i>Physical Review A</i> , 2016, 93, .	2.5	15
140	Electron correlation in beryllium: Effects in the ground state, short-pulse photoionization, and time-delay studies. <i>Physical Review A</i> , 2017, 95, .	2.5	15
141	Multielectron polarization effects in strong-field ionization: Narrowing of momentum distributions and imprints in interference structures. <i>Physical Review A</i> , 2018, 98, .	2.5	15
142	Nondipole photoelectron momentum shifts in strong-field ionization with mid-infrared laser pulses of long duration. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 165602.	1.5	15
143	On selection rules for atoms in laser fields and high harmonic generation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, L403-L408.	1.5	14
144	Rotational cooling of molecules using lamps. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 4571-4574.	1.5	14

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145	Alignment dependence in above-threshold ionization of H ₂ : role of intermediate resonances. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 085602.	1.5	14
146	Attosecond photoionization dynamics in neon. Physical Review A, 2018, 97, .	2.5	14
147	The role of the atomic potential in the regime of strong-field tunnelling ionization: imprints on longitudinal and 2D momentum distributions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 245601.	1.5	13
148	Time-resolved subcycle dynamics: Importance of physical fields and gauge invariance. Physical Review A, 2008, 78, .	2.5	13
149	Laser-induced bound-state phases in high-order-harmonic generation. Physical Review A, 2012, 86, .	2.5	13
150	Ehrenfest's theorem and the validity of the two-step model for strong-field ionization. Physical Review A, 2013, 87, .	2.5	13
151	Asymmetric photoelectron momentum distributions due to quantum interference in strong-field ionization by a few-cycle pulse. Physical Review A, 2014, 89, .	2.5	13
152	Structure factors for tunneling ionization rates of molecules: General Hartree-Fock-based integral representation. Physical Review A, 2017, 96, .	2.5	13
153	Above-threshold ionization of helium in the long-wavelength regime: Examining the single-active-electron approximation and the two-electron strong-field approximation. Physical Review A, 2017, 95, .	2.5	13
154	Laser-induced Coulomb-explosion imaging of the CS_2 dimer: The effect of non-Coulombic interactions. Physical Review A, 2020, 102, .	2.5	12
155	Effective range theory. American Journal of Physics, 2002, 70, 811-814.	0.7	12
156	Reaction and Scattering in Cold Electron Collisions. Physical Review Letters, 2003, 90, 083201.	7.8	12
157	Dissociative double ionization of H_2 and D_2 . Physical Review A, 2010, 81, .	2.5	12
158	Comparison between experiment and Monte Carlo wave packet calcul. Physical Review A, 2010, 81, .	2.5	12
158	Monte Carlo wave packet approach to dissociative multiple ionization in diatomic molecules. Physical Review A, 2010, 81, .	2.5	12
159	Theory of dissociative tunneling ionization. Physical Review A, 2016, 93, .	2.5	12
160	Electron correlation in tunneling ionization of diatomic molecules: An application of the many-electron weak-field asymptotic theory with a generalized-active-space partition scheme. Physical Review A, 2017, 96, .	2.5	12
161	Structure factors for tunneling ionization rates of molecules: General grid-based methodology and convergence studies. Journal of Chemical Physics, 2018, 149, 164107.	3.0	12
162	Entangled Quantum Dynamics of Many-Body Systems using Bohmian Trajectories. Scientific Reports, 2018, 8, 12704.	3.3	12

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163	A simple test of theories of laser-assisted electron-atom scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 4701-4716.	1.5	11
164	Strong-field ionization of three-dimensionally aligned naphthalene molecules: orbital modification and imprints of orbital nodal planes. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 245601.	1.5	11
165	Alignment dependence of photoelectron momentum distributions of atomic and molecular targets probed by few-cycle circularly polarized laser pulses. Physical Review A, 2016, 94, .	2.5	11
166	Analytic modeling of structures in attosecond transient-absorption spectra. Physical Review A, 2017, 96, .	2.5	11
167	The calculation of multiphoton ionization rates of the hydrogen molecular ion. Computer Physics Communications, 1998, 114, 94-119.	7.5	10
168	Efficient excitation of Ps by 50-100 fs laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, L425-L431.	1.5	10
169	Procedures for the evaluation of atomic transition matrix elements in the interaction with laser light. Computer Physics Communications, 1999, 120, 231-237.	7.5	10
170	Correlated Electrons in Lithiumlike Hollow Atoms. Physical Review Letters, 2001, 87, 133002.	7.8	10
171	Secondary-electron cascade in attosecond photoelectron spectroscopy from metals. Physical Review A, 2009, 80, .	2.5	10
172	Coulomb and dipole effects in tunneling ionization of molecules including nuclear motion. Physical Review A, 2015, 91, .	2.5	10
173	Probing atomic and molecular targets by intense bicircular counter-rotating laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 135401.	1.5	10
174	Effects of vacancies on high-order harmonic generation in a linear chain with band gap. Physical Review Research, 2020, 2, .	3.6	10
175	Correlation effects in high-order harmonic generation from finite systems. Physical Review A, 2022, 105, .	2.5	10
176	Laser excitation of angular Rydberg wavepackets. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 4995-5007.	1.5	9
177	Line shapes in photoexcitation of triply excited hollow states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 1855-1868.	1.5	9
178	Symmetric rotor of lithiumlike hollow atoms. Physical Review A, 2002, 65, .	2.5	9
179	Gaussian-state description of squeezed light. Physical Review A, 2005, 72, .	2.5	9
180	Above-threshold ionization, energy-resolved photoelectron angular distributions, and momentum distributions of H ₂ ⁺ in intense femtosecond laser pulses. Physical Review A, 2009, 79, .	2.5	9

#	ARTICLE	IF	CITATIONS
181	Atomic and molecular phases through attosecond streaking. <i>Physical Review A</i> , 2011, 83, .	2.5	9
182	Characterization of Molecular Breakup by Very Intense Femtosecond XUV Laser Pulses. <i>Physical Review Letters</i> , 2015, 115, 033001.	7.8	9
183	Exterior time scaling with the stiffness-free Lanczos time propagator: Formulation and application to atoms interacting with strong midinfrared lasers. <i>Physical Review A</i> , 2016, 93, .	2.5	9
184	Enhancement of Above Threshold Ionization in Resonantly Excited Helium Nanodroplets. <i>Physical Review Letters</i> , 2021, 127, 093201.	7.8	9
185	Comment on "Suppression of Angular-Momentum Mixing in Photoexcitation of Rydberg States by Multistate Off-Resonant Quantum Coherence". <i>Physical Review Letters</i> , 2000, 85, 898-898.	7.8	8
186	Comment on "Generalization of Keldysh's theory". <i>Physical Review A</i> , 2007, 75, .	2.5	8
187	Laser-assisted ion-atom collisions: Plateau, cutoff, and multiphoton peaks. <i>Physical Review A</i> , 2008, 77, .	2.5	8
188	Time dependence of ionization and excitation by few-cycle laser pulses. <i>Physical Review A</i> , 2008, 78, .	2.5	8
189	Ellipticity dependence of the validity of the saddle-point method in strong-field ionization by few-cycle laser pulses. <i>Physical Review A</i> , 2008, 78, .	2.5	8
190	Energy-resolved photoelectron angular distributions of H ₂ in intense femtosecond laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 021001.	1.5	8
191	Nondipole effects in attosecond photoelectron streaking. <i>Physical Review A</i> , 2012, 86, .	2.5	8
192	Torsional and rotational couplings in nonrigid molecules. <i>Physical Review A</i> , 2017, 95, .	2.5	8
193	Classification of atomic states by geometrical and quantum-mechanical symmetries. <i>Physical Review A</i> , 2005, 72, .	2.5	7
194	Electron emission in energetic ion-atom collisions in the presence of coherent electromagnetic radiation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 5037-5050.	1.5	7
195	Suppression of strong-field ionization by optimal pulse shaping: Application to hydrogen and the hydrogen molecular ion. <i>Physical Review A</i> , 2015, 91, .	2.5	7
196	Attosecond transient-absorption spectroscopy of polar molecules. <i>Physical Review A</i> , 2018, 98, .	2.5	7
197	Core-resonant ionization of helium by intense XUV pulses: Analytical and numerical studies on channel-resolved spectral features. <i>Physical Review A</i> , 2018, 98, .	2.5	7
198	Effects of core space and excitation levels on ground-state correlation and photoionization dynamics of Be and Ne. <i>Journal of Chemical Physics</i> , 2019, 150, 084305.	3.0	7

#	ARTICLE	IF	CITATIONS
199	Electron correlation effects in enhanced ionization of diatomic molecules in near-infrared fields. Physical Review A, 2019, 99, .	2.5	7
200	Edge-state and bulklike laser-induced correlation effects in high-harmonic generation from a linear chain. Physical Review B, 2021, 104, .	3.2	7
201	Nondipole effects in laser-assisted electron scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 195602.	1.5	7
202	Multielectron effects in strong-field ionization of the oriented OCS molecule. Physical Review A, 2020, 102, .	2.5	7
203	Laser-assisted electron - atom resonance scattering and laser-induced resonance interference. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 1599-1610.	1.5	6
204	Selection rule in the theory of laser-assisted charged-particle scattering. Physical Review A, 1999, 60, 5126-5128.	2.5	6
205	Comment on "Laser-enhanced antihydrogen formation". Physical Review A, 2000, 61, .	2.5	6
206	Pyramidal atoms: Berylliumlike hollow states. Physical Review A, 2005, 71, .	2.5	6
207	Strong-field approximation for Coulomb explosion of H^+	2.5	6
208	Edge-state-induced correlation effects in two-color pump-probe high-order harmonic generation. Physical Review A, 2021, 103, .	2.5	6
209	Strong-field approximation for high-order harmonic generation in infrared laser pulses in the accelerated Kramers-Henneberger frame. Physical Review A, 2021, 104, .	2.5	6
210	Nondipole effects in tunneling ionization by intense laser pulses. Physical Review A, 2022, 105, .	2.5	6
211	Polarization effect in electron-excitation of hydrogen. Physical Review A, 1995, 52, 2429-2432.	2.5	5
212	Rotational structure in multiply excited atoms. Physical Review A, 2001, 64, .	2.5	5
213	Triply excited Rydberg series and their doubly excited limits in hollow lithium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 2137-2144.	1.5	5
214	Fidelities for transformations of unknown quantum states. Physical Review A, 2006, 73, .	2.5	5
215	Alignment-dependent above-threshold ionization of molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 237-245.	1.5	5
216	Dissociative multiple ionization of diatomic molecules by extreme-ultraviolet free-electron-laser pulses. Physical Review A, 2011, 83, .	2.5	5

#	ARTICLE	IF	CITATIONS
217	Observation of low-energy electrons in the photoelectron energy distribution from strong-field ionization of naphthalene by circularly polarized pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 121001.	1.5	5
218	Laser-induced dissociative ionization of H ₂ from the near-infrared to the mid-infrared regime. <i>Physical Review A</i> , 2016, 94, .	2.5	5
219	Same-period emission and recombination in nonsequential double-recombination high-order-harmonic generation. <i>Physical Review A</i> , 2016, 93, .	2.5	5
220	Nonsequential double-recombination high-order-harmonic generation in molecular-like systems. <i>Physical Review A</i> , 2017, 96, .	2.5	5
221	Time-resolved spectroscopy of interparticle Coulombic decay processes. <i>Physical Review A</i> , 2020, 101, .	2.5	5
222	Propagation time and nondipole contributions to intraband high-order harmonic generation. <i>Physical Review A</i> , 2022, 105, .	2.5	5
223	Helicity-dependent dissociative tunneling ionization of CF ₄ in multicycle circularly polarized intense laser fields. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8962-8969.	2.8	5
224	Triply excited symmetric rotor states: distributions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 769-779.	1.5	4
225	Positronium in laser fields. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 221, 174-181.	1.4	4
226	Off-shell effects in laser-assisted scattering. <i>European Physical Journal D</i> , 2004, 29, 209-216.	1.3	4
227	A spectral method for integration of the time-dependent Schrödinger equation in hyperspherical coordinates. <i>Journal of Physics A</i> , 2005, 38, 6977-6985.	1.6	4
228	Interplay between pulse parameters and alignment of $\{m\}_{H}^{2^+}$ in strong laser fields. <i>Journal of Physics: Conference Series</i> , 2017, 869, 012009.	0.4	4
229	Pulse-length effects in strong-field ionization of atoms by co-rotating and counter-rotating bicircular laser pulses. <i>Physical Review A</i> , 2019, 100, .	2.5	4
230	Coherent scattering of an optically modulated electron beam by atoms. <i>Physical Review A</i> , 2021, 103, .	2.5	4
231	CHAPTER 11. Time-dependent Restricted-active-space Self-consistent-field Theory for Electron Dynamics on the Attosecond Timescale. <i>RSC Theoretical and Computational Chemistry Series</i> , 0, , 386-423.	0.7	4
232	Asymmetric Dissociative Tunneling Ionization of Tetrafluoromethane in Intense Laser Fields. <i>Frontiers in Chemistry</i> , 2022, 10, 857863.	3.6	4
233	Off-shell effects in laser-assisted scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 2869-2874.	1.5	3
234	Minimizing the loss of entanglement under dimensional reduction. <i>European Physical Journal D</i> , 2004, 29, 293-299.	1.3	3

#	ARTICLE	IF	CITATIONS
235	Control of autoionization widths: Doubly excited coherent elliptic states. <i>Physical Review A</i> , 2006, 73, .	2.5	3
236	Momentum distributions of selected rare-gas atoms probed by intense femtosecond laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 235601.	1.5	3
237	“Slow” time discretization: a versatile time propagator for the time-dependent Schrödinger equation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 075007.	1.5	3
238	Ionization of helium by intense XUV laser pulses: Numerical simulations on channel-resolved probabilities. <i>Physical Review A</i> , 2016, 93, .	2.5	3
239	Bound and continuum energy distributions of nuclear fragments resulting from tunneling ionization of molecules. <i>Physical Review A</i> , 2018, 97, .	2.5	3
240	Excitation spectra of systems of indistinguishable particles by the autocorrelation function technique: Circumventing the exponential scaling for bosons. <i>Journal of Chemical Physics</i> , 2019, 150, 194105.	3.0	3
241	Dynamics of interatomic Coulombic decay in neon dimers by XUV-pump“XUV-probe spectroscopy. <i>Physical Review A</i> , 2019, 99, .	2.5	3
242	Torsional effects in strong-field ionization of molecules. <i>Physical Review Research</i> , 2019, 1, .	3.6	3
243	Excitation and ionization of positronium by 50“100 fs laser pulses. , 2000, 127, 185-188.		2
244	The determination of absolute anion formation cross sections from electron beam scattering data. <i>Journal of Chemical Physics</i> , 2005, 122, 024309.	3.0	2
245	Binding bare nuclei with strong laser fields: Nondipole effects. <i>Physical Review A</i> , 2005, 71, .	2.5	2
246	Publisher's Note: Comment on “Strong-field ionization of laser-irradiated light homonuclear diatomic molecules: A generalized strong-field approximation“linear combination of atomic orbitals model“[Phys. Rev. A 73, 047401 (2006)]. <i>Physical Review A</i> , 2006, 73, .	2.5	2
247	Isotopic scaling in strong-field dissociation by few-cycle pulses. <i>Physical Review A</i> , 2009, 79, .	2.5	2
248	Monte Carlo wave-packet approach to trace nuclear dynamics in molecular excited states by XUV-pump“IR-probe spectroscopy. <i>Physical Review A</i> , 2018, 97, .	2.5	2
249	Molecular Symmetry-Mixed Dichroism in Double Photoionization of H_2 . <i>Physical Review Letters</i> , 2019, 123, 143202.	7.8	2
250	Photoionization of aligned excited states in neon by attosecond laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 054001.	1.5	2
251	Different forms of laser“matter interaction operators and expansion in adiabatic states. <i>European Physical Journal: Special Topics</i> , 2021, 230, 4141-4150.	2.6	2
252	Laser excitation of angular Rydberg wavepackets in a static magnetic field. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, L39-L45.	1.5	1

#	ARTICLE	IF	CITATIONS
253	Photodetachment of He ⁺ in the Vicinity of the Two-Electron Escape Threshold. <i>Physical Review Letters</i> , 2003, 90, 013002.	7.8	1
254	Reply to "Comment on "On the dipole, velocity and acceleration forms in high-order harmonic generation from a single atom or molecule". <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 028002.	1.5	1
255	Attosecond charge migration and its laser control. <i>Journal of Physics: Conference Series</i> , 2015, 635, 112136.	0.4	1
256	Two- and- Three Electron Atoms in Strong Laser Fields. , 2001, , 153-168.		1
257	Laser-assisted electron - atom resonance scattering and laser-induced resonance interference. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 2747-2747.	1.5	1
258	Probe dispersion and quantum coherence. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, L419-L425.	1.5	0
259	Systematic study of resonance and off-energy-shell effects in laser-assisted electron scattering. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	0
260	Complex-scaled Hartree-Fock wave functions for the frozen core: A B spline approach. <i>Computer Physics Communications</i> , 2003, 151, 47-59.	7.5	0
261	Entanglement between remote continuous-variable quantum systems: Effects of transmission loss. <i>Physical Review A</i> , 2006, 74, .	2.5	0
262	Atoms and molecules in intense attosecond fields: beyond the dipole approximation. <i>Journal of Physics: Conference Series</i> , 2007, 88, 012049.	0.4	0
263	Publisher's Note: Laser-assisted ion-atom collisions: Plateau, cutoff, and multiphoton peaks [<i>Phys. Rev. A</i> 77, 023412 (2008)]. <i>Physical Review A</i> , 2008, 77, .	2.5	0
264	Probing the longitudinal momentum spread of the electron wave packet at the tunnel exit. <i>EPJ Web of Conferences</i> , 2013, 41, 02017.	0.3	0
265	Intense near-IR laser induced electron-ion scattering experiment on hydrocarbon molecules. <i>Journal of Physics: Conference Series</i> , 2015, 635, 112029.	0.4	0
266	Two-step semiclassical model for strong-field ionization with interference and multielectron polarization effects. <i>Journal of Physics: Conference Series</i> , 2015, 635, 092047.	0.4	0
267	Two attosecond pulse transient absorption spectroscopy and extraction of the instantaneous AC Stark shift in helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 14LT02.	1.5	0
268	Non-perturbative semiclassical model for strong-field ionization. <i>Journal of Physics: Conference Series</i> , 2017, 875, 022019.	0.4	0
269	Electron Matter-Wave Vortices in Double Photoionization of Helium by Attosecond Pulses. <i>Journal of Physics: Conference Series</i> , 2017, 875, 022014.	0.4	0
270	Correlated Electrons in Multiply Excited States at and Below Threshold. <i>Physica Scripta</i> , 2004, 110, 144.	2.5	0

#	ARTICLE	IF	CITATIONS
271	Gaussian Description of Continuous Measurements on Continuous Variable Quantum Systems. , 2007, , 435-462.		0