

# Toru

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89  
papers

2,861  
citations

30  
h-index

51  
g-index

96  
ext. papers

3,224  
ext. citations

2.7  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
89	Strong-field ionization, rescattering, and target structure imaging with vortex electrons. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	12
88	Rescattering photoelectron spectroscopy of the CO <sub>2</sub> molecule: Progress towards experimental discrimination between theoretical target-structure models. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	2
87	Rescattering photoelectron spectroscopy of heterodiatom molecules with an analytical returning photoelectron wave packet. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	7
86	Weak-field versus Born-Oppenheimer asymptotics in the theory of tunneling ionization of molecules. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	5
85	Photoionization of hydrogen in a strong static electric field. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	2
84	Adiabatic theory of strong-field photoelectron momentum distributions near a backward rescattering caustic. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	13
83	Carrier-envelope phase mapping in laser-induced electron diffraction. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	4
82	Critical evaluation of attosecond time delays retrieved from photoelectron streaking measurements. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	19
81	Imaging Electronic Excitation of NO by Ultrafast Laser Tunneling Ionization. <i>Physical Review Letters</i> , <b>2016</b> , 116, 163002	7.4	31
80	Near-Forward Rescattering Photoelectron Holography in Strong-Field Ionization: Extraction of the Phase of the Scattering Amplitude. <i>Physical Review Letters</i> , <b>2016</b> , 116, 173001	7.4	72
79	Photoelectron sidebands induced by a chirped laser field for shot-by-shot temporal characterization of FEL pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2016</b> , 49, 034003	1.3	3
78	First-order correction terms in the weak-field asymptotic theory of tunneling ionization in many-electron systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2016</b> , 49, 195603	1.3	5
77	Structure factors for tunneling ionization rates of diatomic molecules. <i>Atomic Data and Nuclear Data Tables</i> , <b>2015</b> , 103-104, 4-49	2	20
76	Weak-field asymptotic theory of tunneling ionization including the first-order correction terms: Application to molecules. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	10
75	Observation of laser-induced electronic structure in oriented polyatomic molecules. <i>Nature Communications</i> , <b>2015</b> , 6, 7039	17.4	55
74	Analysis of a shift of the maximum of photoelectron momentum distributions generated by intense circularly polarized pulses. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	15
73	Numerical simulation of the double-to-single ionization ratio for the helium atom in strong laser fields. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	15

72	Hyperspherical calculations of ultralow-energy collisions in Coulomb three-body systems. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	2
71	Intense near-IR laser induced electron-ion scattering experiment on hydrocarbon molecules. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 112029	0.3	
70	Weak-field asymptotic theory of tunneling ionization: benchmark analytical results for two-electron atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2015</b> , 48, 061003	1.3	7
69	Benchmarking accurate spectral phase retrieval of single attosecond pulses. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	3
68	Application of the many-electron weak-field asymptotic theory of tunneling ionization to atoms. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	8
67	Interference of Two Shape Resonances Probed by Rescattering Photoelectron Spectroscopy of CO <sub>2</sub> . <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 032024	0.3	
66	Resolving the enhanced nonlinear double excitation of helium in intense ultra-short extreme-ultraviolet pulses. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 032047	0.3	
65	Rydberg states in the strong field ionization of hydrogen by 800, 1200 and 1600 nm lasers. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2014</b> , 47, 204019	1.3	13
64	Fine structures in the intensity dependence of excitation and ionization probabilities of hydrogen atoms in intense 800-nm laser pulses. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	44
63	Universality of returning electron wave packet in high-order harmonic generation with midinfrared laser pulses. <i>Physical Review Letters</i> , <b>2014</b> , 113, 033001	7.4	25
62	Probing dipole-forbidden autoionizing states by isolated attosecond pulses. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	4
61	Application of the weak-field asymptotic theory to tunneling ionization of H <sub>2</sub> O. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	23
60	Molecular tunneling ionization of the carbonyl sulfide molecule by double-frequency phase-controlled laser fields. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	43
59	Weak-field asymptotic theory of tunneling ionization in many-electron atomic and molecular systems. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	46
58	Molecular Siegert states in an electric field. II. Transverse momentum distribution of the ionized electrons. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	17
57	Structure factors for tunneling ionization rates of molecules. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	64
56	First-order correction terms in the weak-field asymptotic theory of tunneling ionization. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	37
55	Photoelectron spectra and high Rydberg states of lithium generated by intense lasers in the over-the-barrier ionization regime. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	23

54	Effect of nuclear motion on tunneling ionization rates of molecules. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	23
53	Two-electron dynamics in nonlinear double excitation of helium by intense ultrashort extreme-ultraviolet pulses. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	11
52	Electron scattering and photoionization of one-electron diatomic molecules. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	15
51	Molecular Siegert states in an electric field. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	29
50	Adiabatic theory of ionization by intense laser pulses: Finite-range potentials. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	73
49	Adiabatic theory of high-order harmonic generation: One-dimensional zero-range-potential model. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	23
48	Application of the weak-field asymptotic theory to the analysis of tunneling ionization of linear molecules. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	72
47	Laser-induced electron diffraction for probing rare gas atoms. <i>Physical Review Letters</i> , <b>2012</b> , 109, 233002.	7.4	30
46	Siegert-state method for ionization of molecules in strong field. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 032030	0.3	3
45	Theory of tunneling ionization of molecules: Weak-field asymptotics including dipole effects. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	122
44	Quantum control of molecular tunneling ionization in the spatiotemporal domain. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	40
43	Two-photon double ionization of helium: Evolution of the joint angular distribution with photon energy and two-electron energy sharing. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	40
42	Extracting electron-ion differential scattering cross sections for partially aligned molecules by laser-induced rescattering photoelectron spectroscopy. <i>Physical Review Letters</i> , <b>2011</b> , 106, 063001	7.4	48
41	Atomic Siegert states in an electric field: Transverse momentum distribution of the ionized electrons. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	58
40	Strong-field rescattering physics: Self-imaging of a molecule by its own electrons. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2010</b> , 43, 122001	1.3	199
39	Adiabatic theory of ionization of atoms by intense laser pulses: One-dimensional zero-range-potential model. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	46
38	Retrieval of experimental differential electron inelastic scattering cross sections from high-energy ATI spectra of rare gas atoms by infrared lasers. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2009</b> , 42, 105205	1.3	18
37	Quantitative rescattering theory for laser-induced high-energy plateau photoelectron spectra. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	118

36	Adiabatic theory of ionization of atoms by intense laser pulses. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 032032	0.3	1
35	Photoelectron interference fringes by super intense x-ray laser pulses. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 185, 012050	0.3	
34	High-resolution spatial and temporal microscopy with intense-laser-induced rescattering electrons. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 012011	0.3	11
33	Accurate retrieval of atomic structures from high-order harmonic spectra. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 112005	0.3	
32	Probing the molecule-like modes of doubly excited states of helium atoms. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 032014	0.3	
31	Extraction of the species-dependent dipole amplitude and phase from high-order harmonic spectra in rare-gas atoms. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	86
30	Potential for ultrafast dynamic chemical imaging with few-cycle infrared lasers. <i>New Journal of Physics</i> , <b>2008</b> , 10, 025011	2.9	32
29	Retrieval of electron-atom scattering cross sections from laser-induced electron rescattering of atomic negative ions in intense laser fields. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	29
28	Signature of Ericson fluctuations in helium inelastic scattering cross sections near the double ionization threshold. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	8
27	Retrieving photorecombination cross sections of atoms from high-order harmonic spectra. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	78
26	Interference substructure of above-threshold ionization peaks in the stabilization regime. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	33
25	Accurate retrieval of structural information from laser-induced photoelectron and high-order harmonic spectra by few-cycle laser pulses. <i>Physical Review Letters</i> , <b>2008</b> , 100, 013903	7.4	33 <sup>o</sup>
24	Attosecond light pulses for probing two-electron dynamics of helium in the time domain. <i>Physical Review Letters</i> , <b>2007</b> , 98, 083003	7.4	5 <sup>o</sup>
23	Analysis of two-dimensional high-energy photoelectron momentum distributions in the single ionization of atoms by intense laser pulses. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	55
22	Time-dependent hyperspherical studies for a two-dimensional attractive Bose-Einstein condensate. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	5
21	Two-dimensional electron momentum spectra of argon ionized by short intense lasers: Comparison of theory with experiment. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	95
20	Siegert-state expansion in the Kramers-Henneberger frame: Interference substructure of above-threshold ionization peaks in the stabilization regime. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	48
19	Analysis of two-dimensional photoelectron momentum spectra and the effect of the long-range Coulomb potential in single ionization of atoms by intense lasers. <i>Physical Review A</i> , <b>2006</b> , 74,	2.6	108

18	Reexamination of dynamical stabilization of matter-wave solitons. <i>Physical Review A</i> , <b>2006</b> , 74,	2.6	29
17	Hyperspherical analysis of radial correlations in four-electron atoms. <i>Physical Review A</i> , <b>2005</b> , 71,	2.6	10
16	Siegert pseudostate perturbation theory: One- and two-threshold cases. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	10
15	Signature of chaos in high-lying doubly excited states of the helium atom. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	11
14	Gyroscopic effects in interference of matter waves. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	7
13	Aspects of hyperspherical adiabaticity in an atomic-gas Bose-Einstein condensate. <i>Physical Review A</i> , <b>2004</b> , 70,	2.6	10
12	Double-ionization of He by fast proton and antiproton impact. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 214, 144-148	1.2	5
11	Hyperspherical close-coupling calculations for charge-transfer cross sections in He <sup>2+</sup> +H(1s) collisions at low energies. <i>Physical Review A</i> , <b>2003</b> , 67,	2.6	43
10	Radial and angular correlations and the classification of intershell 2l2l'3l' triply excited states of atoms. <i>Physical Review A</i> , <b>2003</b> , 67,	2.6	13
9	Hyperspherical L <sup>2</sup> -integrable basis method for energetic proton and anti-proton impact autoionization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2001</b> , 34, L475-L484	1.3	9
8	Identification and visualization of the collective normal modes of intrashell triply excited states of atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2001</b> , 34, L105-L111	1.3	11
7	Classification and rovibrational normal modes of 3l3l'3l' triply excited states of atoms. <i>Physical Review A</i> , <b>2001</b> , 64,	2.6	14
6	VISUALIZATION OF ELECTRON CORRELATIONS IN DOUBLY AND TRIPLY EXCITED STATES OF ATOMS. <i>Advanced Series in Physical Chemistry</i> , <b>2000</b> , 1161-1202		
5	Comprehensive analysis of electron correlations in three-electron atoms. <i>Physical Review A</i> , <b>1999</b> , 59, 1835-1843	2.6	27
4	Stable bound states of e <sup>+</sup> +Li and e <sup>+</sup> +Na. <i>Physical Review A</i> , <b>1998</b> , 58, R4-R7	2.6	40
3	Hyperspherical hierarchy of three-electron radial excitations. <i>Physical Review A</i> , <b>1997</b> , 56, 3559-3568	2.6	17
2	Proton-antiproton impact-electron emission spectra of He: Comparison of theory with experiment. <i>Physical Review A</i> , <b>1996</b> , 53, 2345-2358	2.6	16
1	Double-electron excitation of H <sup>-</sup> by fast proton and antiproton impact. <i>Physical Review A</i> , <b>1994</b> , 49, 3753-3760	2.6	5

