

# Takuya Horio

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,246  
citations

361413

20  
h-index

361022

35  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1139  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of 12 fs deep-ultraviolet pulses by four-wave mixing through filamentation in neon gas. <i>Optics Letters</i> , 2007, 32, 2481.	3.3	144
2	Probing Ultrafast Internal Conversion through Conical Intersection via Time-Energy Map of Photoelectron Angular Anisotropy. <i>Journal of the American Chemical Society</i> , 2009, 131, 10392-10393.	13.7	108
3	Photoelectron spectroscopy of aqueous solutions: Streaming potentials of NaX (X = Cl, Br, and I) solutions and electron binding energies of liquid water and X <sup>•-</sup> . <i>Journal of Chemical Physics</i> , 2014, 140, 174506.	3.0	90
4	High-resolution soft X-ray photoelectron spectroscopy of liquid water. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 413-417.	2.8	85
5	Time-resolved photoelectron imaging of ultrafast S <sub>2</sub> → S <sub>1</sub> internal conversion through conical intersection in pyrazine. <i>Journal of Chemical Physics</i> , 2010, 132, 174302.	3.0	84
6	Ultrafast photodynamics of furan. <i>Journal of Chemical Physics</i> , 2010, 133, 234303.	3.0	69
7	Time-resolved photoelectron imaging of S <sub>2</sub> → S <sub>1</sub> internal conversion in benzene and toluene. <i>Journal of Chemical Physics</i> , 2011, 134, 184313.	3.0	51
8	Time- and Angle-Resolved Photoemission Spectroscopy of Hydrated Electrons Near a Liquid Water Surface. <i>Physical Review Letters</i> , 2014, 112, 187603.	7.8	49
9	Photoelectron spectra of solvated electrons in bulk water, methanol, and ethanol. <i>Chemical Physics Letters</i> , 2012, 535, 12-16.	2.6	46
10	Simultaneous generation of sub-20 fs deep and vacuum ultraviolet pulses in a single filamentation cell and application to time-resolved photoelectron imaging. <i>Optics Express</i> , 2013, 21, 22423.	3.4	38
11	Full observation of ultrafast cascaded radiationless transitions from S <sub>2</sub> ( $\tilde{\nu}_1$ ) state of pyrazine using vacuum ultraviolet photoelectron imaging. <i>Journal of Chemical Physics</i> , 2016, 145, 044306.	3.0	37
12	Ultrafast Deactivation of the $\tilde{\nu}_1$ State of Ethylene Studied Using Sub-20 fs Time-Resolved Photoelectron Imaging. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9518-9523.	2.5	35
13	Molecular Frame Image Restoration and Partial Wave Analysis of Photoionization Dynamics of NO by Time-Energy Mapping of Photoelectron Angular Distribution. <i>Physical Review Letters</i> , 2010, 104, 073002.	7.8	31
14	Observation of the wavepacket dynamics on the 1 <sup>+</sup> B <sub>2</sub> (1 $\tilde{\nu}_1$ ) state of CS <sub>2</sub> by sub-20 fs photoelectron imaging using 159 nm probe pulses. <i>Journal of Chemical Physics</i> , 2015, 142, 074308.	3.0	30
15	Multihit two-dimensional charged-particle imaging system with real-time image processing at 1000 frames/s. <i>Review of Scientific Instruments</i> , 2009, 80, 013706.	1.3	28
16	Direct Measurement of Vertical Electron Binding Energies of Solvated Electrons in Methanol and Ethanol. <i>Chemistry Letters</i> , 2010, 39, 668-670.	1.3	28
17	Generation of sub-17 fs vacuum ultraviolet pulses at 133 nm using cascaded four-wave mixing through filamentation in Ne. <i>Optics Letters</i> , 2014, 39, 6021.	3.3	26
18	Generation of intense single-order harmonic pulse in the vacuum ultraviolet region using a deep ultraviolet driving laser. <i>Optics Letters</i> , 2012, 37, 2118.	3.3	25

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19	Time-resolved photoelectron imaging using a femtosecond UV laser and a VUV free-electron laser. <i>Physical Review A</i> , 2010, 81, .	2.5	24
20	Excited-state dynamics of furan studied by sub-20-fs time-resolved photoelectron imaging using 159-nm pulses. <i>Journal of Chemical Physics</i> , 2015, 143, 014302.	3.0	21
21	Determination of outer molecular orbitals by collisional ionization experiments and comparison with Hartree-Fock, Kohn-Sham, and Dyson orbitals. <i>Physical Review A</i> , 2007, 75, .	2.5	20
22	Ultrafast Ring-Opening Reaction of 1,3-Cyclohexadiene: Identification of Nonadiabatic Pathway via Doubly Excited State. <i>Journal of the American Chemical Society</i> , 2021, 143, 8034-8045.	13.7	20
23	Excited-State Dynamics of CS <sub>2</sub> Studied by Photoelectron Imaging with a Time Resolution of 22 fs. <i>Chemistry - an Asian Journal</i> , 2011, 6, 3028-3034.	3.3	19
24	Ultrafast photodynamics of pyrazine in the vacuum ultraviolet region studied by time-resolved photoelectron imaging using 7.8-eV pulses. <i>Journal of Chemical Physics</i> , 2016, 145, 044307.	3.0	18
25	Real-time detection of S(1D <sub>2</sub> ) photofragments produced from the 1B <sub>2</sub> (1 $\Sigma$ u <sup>+</sup> ) state of CS <sub>2</sub> by vacuum ultraviolet photoelectron imaging using 133 nm probe pulses. <i>Journal of Chemical Physics</i> , 2017, 147, 013932.	3.0	16
26	Collision-energy-resolved Penning ionization electron spectroscopy of OCS with He*(2S) metastable atoms. <i>Chemical Physics Letters</i> , 2003, 379, 332-339.	2.6	14
27	Design and characterization of a magnetic bottle electron spectrometer for time-resolved extreme UV and X-ray photoemission spectroscopy of liquid microjets. <i>Structural Dynamics</i> , 2021, 8, 034303.	2.3	12
28	Simultaneous generation of ultrashort pulses at 158 and 198 nm in a single filamentation cell by cascaded four-wave mixing in Ar. <i>Applied Physics B: Lasers and Optics</i> , 2012, 108, 815-819.	2.2	10
29	Improvement of reflectron time-of-flight mass spectrometer for better convergence of ion beam. <i>International Journal of Mass Spectrometry</i> , 2020, 451, 116311.	1.5	10
30	A crossed-molecular beam study on collisional ionization dynamics of acetonitrile and benzene molecules with He*(2S) metastable atoms. <i>Chemical Physics Letters</i> , 2004, 384, 73-79.	2.6	9
31	Development of a cooled He*(2S) beam source for measurements of state-resolved collision energy dependence of Penning ionization cross sections: Evidence for a stereospecific attractive well around methyl group in CH <sub>3</sub> CN. <i>Journal of Chemical Physics</i> , 2005, 123, 194308.	3.0	9
32	Two-color deep-ultraviolet 40-fs pulses based on parametric amplification at 100 kHz. <i>Optics Express</i> , 2011, 19, 22637.	3.4	9
33	Penning ionization electron spectroscopy of van der Waals clusters. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2000, 112, 115-128.	1.7	8
34	Low velocity experiments for collision energy dependence of partial ionization cross-sections of C <sub>2</sub> H <sub>2</sub> with He*(2S) metastable atoms. <i>Chemical Physics Letters</i> , 2004, 397, 242-246.	2.6	7
35	Probing anisotropic interaction potentials of unsaturated hydrocarbons with He*(2S) metastable atom: Attractive-site preference of <i>l</i> -direction in C <sub>2</sub> H <sub>2</sub> and <i>l</i> -direction in C <sub>2</sub> H <sub>4</sub> . <i>Journal of Chemical Physics</i> , 2006, 124, 104308.	3.0	6
36	Anisotropic Interaction and Stereoreactivity in a Chemi-Ionization Process of OCS by Collision with He*(2S) Metastable Atoms. <i>Journal of Physical Chemistry A</i> , 2006, 110, 11010-11017.	2.5	4

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37	Time-Resolved Photoelectron Imaging of Acetone with 9.3 eV Photoexcitation. Journal of Physical Chemistry A, 2019, 123, 6848-6853.	2.5	4
38	Femtosecond Time and Angle Resolved Photoemission Spectroscopy of Liquids. Springer Proceedings in Physics, 2015, , 305-308.	0.2	1
39	X-ray absorption spectroscopy of small copper-oxide cluster ions for analyses of Cu oxidation state and Ar complexation: $\text{CuOAr}^+$ and $\text{Cu}_2\text{O}_2$ . Zeitschrift Fur Physikalische Chemie, 2021, 235, 213-224.	2.8	1
40	Generation of intense deep-ultraviolet 10-fs pulses by four-wave mixing through filamentation in gases. , 2007, , .		0
41	Intense deep-ultraviolet 10-fs pulses generated through filamentation in gases. , 2007, , .		0
42	Photoelectron spectroscopy for polyatomic molecules with 22-fs time resolution. , 2009, , .		0
43	Frequency conversion of ultrashort pulses through filamentation in gases. , 2009, , .		0
44	Two-dimensional Penning ionization electron spectroscopy of $\text{CH}_3\text{I}$ and $\text{CH}_2\text{I}_2$ by $\text{He}^*(23\text{S})$ metastable atoms. Journal of Physics: Conference Series, 2010, 235, 012014.	0.4	0
45	Two-color deep-ultraviolet 40-fs pulses at 100 kHz. , 2012, , .		0
46	Intense vacuum-ultraviolet single-order harmonic pulse by a deep-ultraviolet driving laser. , 2012, , .		0
47	Time-resolved Photoelectron Imaging Using Ultrashort VUV Pulses. Molecular Science, 2018, 12, A0097.	0.2	0
48	Generation of sub-20-fs, two-color deep-ultraviolet pulses by four-wave mixing through filamentation in gases. Springer Series in Chemical Physics, 2009, , 789-791.	0.2	0
49	Time-Energy Map of Photoelectron Angular Anisotropy for Investigation of Ultrafast Internal Conversion. , 2010, , .		0