Takuya Horio

List of Publications by Year
in descending order

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49	1,246	361413 20	361022 35
papers	citations	h-index	g-index

50	50	50	1139
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrafast Ring-Opening Reaction of 1,3-Cyclohexadiene: Identification of Nonadiabatic Pathway via Doubly Excited State. Journal of the American Chemical Society, 2021, 143, 8034-8045.	13.7	20
2	Design and characterization of a magnetic bottle electron spectrometer for time-resolved extreme UV and X-ray photoemission spectroscopy of liquid microjets. Structural Dynamics, 2021, 8, 034303.	2.3	12
3	X-ray absorption spectroscopy of small copper-oxide cluster ions for analyses of Cu oxidation state and Ar complexation: CuOAr⁺ and Cu₂O₂ ⁺. Zeitschrift Fur Physikalische Chemie, 2021, 235, 213-224.	2.8	1
4	Improvement of reflectron time-of-flight mass spectrometer for better convergence of ion beam. International Journal of Mass Spectrometry, 2020, 451, 116311.	1.5	10
5	Time-Resolved Photoelectron Imaging of Acetone with 9.3 eV Photoexcitation. Journal of Physical Chemistry A, 2019, 123, 6848-6853.	2.5	4
6	Time-resolved Photoelectron Imaging Using Ultrashort VUV Pulses. Molecular Science, 2018, 12, A0097.	0.2	0
7	Real-time detection of S(1D2) photofragments produced from the 1B2(1Î£u+) state of CS2 by vacuum ultraviolet photoelectron imaging using 133 nm probe pulses. Journal of Chemical Physics, 2017, 147, 013932.	3.0	16
8	Full observation of ultrafast cascaded radiationless transitions from S2(Ï€Ï€â*) state of pyrazine using vacuum ultraviolet photoelectron imaging. Journal of Chemical Physics, 2016, 145, 044306.	3.0	37
9	Ultrafast photodynamics of pyrazine in the vacuum ultraviolet region studied by time-resolved photoelectron imaging using 7.8-eV pulses. Journal of Chemical Physics, 2016, 145, 044307.	3.0	18
10	Observation of the wavepacket dynamics on the 1B2(1Î£u+) state of CS2 by sub-20 fs photoelectron imaging using 159 nm probe pulses. Journal of Chemical Physics, 2015, 142, 074308.	3.0	30
11	Excited-state dynamics of furan studied by sub-20-fs time-resolved photoelectron imaging using 159-nm pulses. Journal of Chemical Physics, 2015, 143, 014302.	3.0	21
12	Ultrafast Deactivation of the Ï€Ï€*(V) State of Ethylene Studied Using Sub-20 fs Time-Resolved Photoelectron Imaging. Journal of Physical Chemistry A, 2015, 119, 9518-9523.	2.5	35
13	Femtosecond Time and Angle Resolved Photoemission Spectroscopy of Liquids. Springer Proceedings in Physics, 2015, , 305-308.	0.2	1
14	Generation of sub-17â€‰â€‰fs vacuum ultraviolet pulses at 133â€‰â€‰nm using cascaded four-wave mixing through filamentation in Ne. Optics Letters, 2014, 39, 6021.	3.3	26
15	Time- and Angle-Resolved Photoemission Spectroscopy of Hydrated Electrons Near a Liquid Water Surface. Physical Review Letters, 2014, 112, 187603.	7.8	49
16	Photoelectron spectroscopy of aqueous solutions: Streaming potentials of NaX (X = Cl, Br, and I) solutions and electron binding energies of liquid water and Xâ¯. Journal of Chemical Physics, 2014, 140, 174506.	3.0	90
17	Simultaneous generation of sub-20 fs deep and vacuum ultraviolet pulses in a single filamentation cell and application to time-resolved photoelectron imaging. Optics Express, 2013, 21, 22423.	3.4	38
18	Generation of intense single-order harmonic pulse in the vacuum ultraviolet region using a deep ultraviolet driving laser. Optics Letters, 2012, 37, 2118.	3.3	25

#	Article	IF	Citations
19	Two-color deep-ultraviolet 40-fs pulses at 100 kHz. , 2012, , .		0
20	Intense vacuum-ultraviolet single-order harmonic pulse by a deep-ultraviolet driving laser. , 2012, , .		0
21	Simultaneous generation of ultrashort pulses at 158 and 198Ânm in a single filamentation cell by cascaded four-wave mixing in Ar. Applied Physics B: Lasers and Optics, 2012, 108, 815-819.	2.2	10
22	Photoelectron spectra of solvated electrons in bulk water, methanol, and ethanol. Chemical Physics Letters, 2012, 535, 12-16.	2.6	46
23	High-resolution soft X-ray photoelectron spectroscopy of liquid water. Physical Chemistry Chemical Physics, 2011, 13, 413-417.	2.8	85
24	Two-color deep-ultraviolet 40-fs pulses based on parametric amplification at 100 kHz. Optics Express, 2011, 19, 22637.	3.4	9
25	Excitedâ€State Dynamics of CS₂ Studied by Photoelectron Imaging with a Time Resolution of 22â€...fs. Chemistry - an Asian Journal, 2011, 6, 3028-3034.	3.3	19
26	Time-resolved photoelectron imaging of S2 â†' S1 internal conversion inÂbenzene and toluene. Journal of Chemical Physics, 2011, 134, 184313.	3.0	51
27	Two-dimensional Penning ionization electron spectroscopy of CH3I and CH2I2by He*(23S) metastable atoms. Journal of Physics: Conference Series, 2010, 235, 012014.	0.4	0
28	Direct Measurement of Vertical Electron Binding Energies of Solvated Electrons in Methanol and Ethanol. Chemistry Letters, 2010, 39, 668-670.	1.3	28
29	Time-resolved photoelectron imaging of ultrafast S2â†'S1 internal conversion through conical intersection in pyrazine. Journal of Chemical Physics, 2010, 132, 174302.	3.0	84
30	Time-resolved photoelectron imaging using a femtosecond UV laser and a VUV free-electron laser. Physical Review A, 2010, 81, .	2.5	24
31	Molecular Frame Image Restoration and Partial Wave Analysis of Photoionization Dynamics of NO by Time-Energy Mapping of Photoelectron Angular Distribution. Physical Review Letters, 2010, 104, 073002.	7.8	31
32	Ultrafast photodynamics of furan. Journal of Chemical Physics, 2010, 133, 234303.	3.0	69
33	Time-Energy Map of Photoelectron Angular Anisotropy for Investigation of Ultrafast Internal Conversion. , 2010, , .		0
34	Photoelectron spectroscopy for polyatomic molecules with 22-fs time resolution. , 2009, , .		0
35	Multihit two-dimensional charged-particle imaging system with real-time image processing at 1000 frames/s. Review of Scientific Instruments, 2009, 80, 013706.	1.3	28
36	Frequency conversion of ultrashort pulses through filamentation in gases. , 2009, , .		0

#	Article	IF	Citations
37	Probing Ultrafast Internal Conversion through Conical Intersection via Time-Energy Map of Photoelectron Angular Anisotropy. Journal of the American Chemical Society, 2009, 131, 10392-10393.	13.7	108
38	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
39	Generation of intense deep-ultraviolet 10-fs pulses by four-wave mixing through filamentation in gases. , 2007, , .		0
40	Intense deep-ultraviolet 10-fs pulses generated through filamentation in gases. , 2007, , .		0
41	Generation of 12 fs deep-ultraviolet pulses by four-wave mixing through filamentation in neon gas. Optics Letters, 2007, 32, 2481.	3.3	144
42	Determination of outer molecular orbitals by collisional ionization experiments and comparison with Hartree-Fock, Kohn-Sham, and Dyson orbitals. Physical Review A, 2007, 75, .	2.5	20
43	Anisotropic Interaction and Stereoreactivity in a Chemi-Ionization Process of OCS by Collision with He*(23S) Metastable Atoms. Journal of Physical Chemistry A, 2006, 110, 11010-11017.	2.5	4
44	Probing anisotropic interaction potentials of unsaturated hydrocarbons with He*(2S3) metastable atom: Attractive-site preference of Ïƒ-direction in C2H2 and Ï€-direction in C2H4. Journal of Chemical Physics, 2006, 124, 104308.	3.0	6
45	Development of a cooled He*(2S3) 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 CH3CN. Journal of Chemical Physics, 2005, 123, 194308.	3.0	9
46	A crossed-molecular beam study on collisional ionization dynamics of acetonitrile and benzene molecules with He*(23S) metastable atoms. Chemical Physics Letters, 2004, 384, 73-79.	2.6	9
47	Low velocity experiments for collision energy dependence of partial ionization cross-sections of C2H2 with He*(23S) metastable atoms. Chemical Physics Letters, 2004, 397, 242-246.	2.6	7
48	Collision-energy-resolved Penning ionization electron spectroscopy of OCS with He*(23S) metastable atoms. Chemical Physics Letters, 2003, 379, 332-339.	2.6	14
49	Penning ionization electron spectroscopy of van der Waals clusters. Journal of Electron Spectroscopy and Related Phenomena, 2000, 112, 115-128.	1.7	8