

# Thomas Weinacht

## List of Publications by Year in descending order

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34  
papers

576  
citations

687363

13  
h-index

642732

23  
g-index

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34  
docs citations

34  
times ranked

700  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous observation of nuclear and electronic dynamics by ultrafast electron diffraction. <i>Science</i> , 2020, 368, 885-889.	12.6	92
2	Coincidence velocity map imaging using Tpx3Cam, a time stamping optical camera with 1.5 ns timing resolution. <i>Review of Scientific Instruments</i> , 2017, 88, 113104.	1.3	72
3	Closed-loop learning control of isomerization using shaped ultrafast laser pulses in the deep ultraviolet. <i>Journal of Chemical Physics</i> , 2009, 130, 134311.	3.0	58
4	Strong Field Molecular Ionization in the Impulsive Limit: Freezing Vibrations with Short Pulses. <i>Physical Review Letters</i> , 2016, 116, 063002.	7.8	32
5	Wave packet driven dissociation and concerted elimination in CH <sub>2</sub> I <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2007, 127, 204305.	3.0	25
6	Creation of multihole molecular wave packets via strong-field ionization. <i>Physical Review A</i> , 2010, 82, .	2.5	24
7	Excited state dynamics of CH <sub>2</sub> I <sub>2</sub> and CH <sub>2</sub> BrI studied with UV pump VUV probe photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 150, 174201.	3.0	23
8	Nonadiabatic dynamics and multiphoton resonances in strong-field molecular ionization with few-cycle laser pulses. <i>Physical Review A</i> , 2016, 93, .	2.5	22
9	Coincidence velocity map imaging using a single detector. <i>Journal of Chemical Physics</i> , 2017, 147, 013922.	3.0	20
10	Strong-field- versus weak-field-ionization pump-probe spectroscopy. <i>Physical Review A</i> , 2018, 98, .	2.5	16
11	Angle-dependent strong-field ionization and fragmentation of carbon dioxide measured using rotational wave packets. <i>Physical Review A</i> , 2020, 102, .	2.5	16
12	Effect of dynamic correlation on the ultrafast relaxation of uracil in the gas phase. <i>Faraday Discussions</i> , 2021, 228, 266-285.	3.2	15
13	Time Resolved Photoelectron Spectroscopy as a Test of Electronic Structure and Nonadiabatic Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5099-5104.	4.6	13
14	Angle-Resolved Strong-Field Ionization of Polyatomic Molecules: More than the Orbitals Matters. <i>ChemPhysChem</i> , 2013, 14, 1451-1455.	2.1	12
15	Spectroscopic and Structural Probing of Excited-State Molecular Dynamics with Time-Resolved Photoelectron Spectroscopy and Ultrafast Electron Diffraction. <i>Physical Review X</i> , 2020, 10, .	8.9	11
16	Adiabatic elimination in strong-field light-matter coupling. <i>Physical Review A</i> , 2020, 102, .	2.5	11
17	Coherent Control of Internal Conversion in Strong-Field Molecular Ionization. <i>Physical Review Letters</i> , 2020, 125, 053202.	7.8	10
18	3D velocity map imaging of electrons with TPX3CAM. <i>Review of Scientific Instruments</i> , 2022, 93, 013003.	1.3	10

#	ARTICLE	IF	CITATIONS
19	Ultrafast internal conversion dynamics of highly excited pyrrole studied with VUV/UV pump probe spectroscopy. <i>Journal of Chemical Physics</i> , 2017, 146, 064306.	3.0	9
20	Time-resolved measurement of internal conversion dynamics in strong-field molecular ionization. <i>Physical Review A</i> , 2017, 96, .	2.5	9
21	Excited-state dynamics of CH <sub>2</sub> I <sub>2</sub> and CH <sub>2</sub> Br studied with UV-pump VUV-probe momentum-resolved photoion spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 184304.	3.0	9
22	Excited state dynamics of <i>cis</i> , <i>cis</i> -1,3-cyclooctadiene: Non-adiabatic trajectory surface hopping. <i>Journal of Chemical Physics</i> , 2020, 152, 174302.	3.0	9
23	Multichannel photodissociation dynamics in CS <sub>2</sub> studied by ultrafast electron diffraction. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 15416-15427.	2.8	9
24	Molecular Double Ionization Using Strong Field Few-Cycle Laser Pulses. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3233-3240.	2.5	8
25	Excited state dynamics of <i>cis</i> , <i>cis</i> -1,3-cyclooctadiene: UV pump VUV probe time-resolved photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 074301.	3.0	8
26	Competition between dynamic resonance and internal conversion in strong-field molecular ionization with chirped ultrafast laser pulses. <i>Physical Review A</i> , 2021, 103, .	2.5	8
27	Field-dressed orbitals in strong-field molecular ionization. <i>Physical Review A</i> , 2015, 92, .	2.5	7
28	Vibrationally assisted below-threshold ionization. <i>Physical Review A</i> , 2017, 95, .	2.5	7
29	Three-in-one microscopy. <i>Nature Photonics</i> , 2012, 6, 78-80.	31.4	4
30	Ionic dynamics underlying strong-field dissociative molecular ionization. <i>Physical Review A</i> , 2017, 96, .	2.5	3
31	Quadruple coincidence measurement of electron correlation in strong-field molecular double ionization. <i>Physical Review A</i> , 2018, 97, .	2.5	2
32	Real-time adjustable, 11 $\hat{1}$ / <sub>4</sub> s FWHM, >5 kHz, piezo electric pulsed atomic beam source. <i>Review of Scientific Instruments</i> , 2018, 89, 103115.	1.3	1
33	A simple approach for characterizing the spatially varying sensitivity of microchannel plate detectors. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	1
34	Femtosecond molecular dynamics viewed by multi-model imaging. , 2021, , .		0