

Thomas J A Wolf

List of Publications by Year in descending order

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64
papers

1,982
citations

304743

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all docs

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docs citations

67
times ranked

2449
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable isolated attosecond X-ray pulses with gigawatt peak power from a free-electron laser. <i>Nature Photonics</i> , 2020, 14, 30-36.	31.4	283
2	Imaging CF ₃ conical intersection and photodissociation dynamics with ultrafast electron diffraction. <i>Science</i> , 2018, 361, 64-67.	12.6	170
3	The photochemical ring-opening of 1,3-cyclohexadiene imaged by ultrafast electron diffraction. <i>Nature Chemistry</i> , 2019, 11, 504-509.	13.6	157
4	Probing ultrafast $\text{I}^{\text{C}}/\text{n}^{\text{I}}$ internal conversion in organic chromophores via K-edge resonant absorption. <i>Nature Communications</i> , 2017, 8, 29.	12.8	144
5	Three-dimensional multi-photon direct laser writing with variable repetition rate. <i>Optics Express</i> , 2013, 21, 26244.	3.4	129
6	Simultaneous observation of nuclear and electronic dynamics by ultrafast electron diffraction. <i>Science</i> , 2020, 368, 885-889.	12.6	92
7	Pump-probe spectroscopy on photoinitiators for stimulated-emission-depletion optical lithography. <i>Optics Letters</i> , 2011, 36, 3188.	3.3	54
8	Direct observation of ultrafast hydrogen bond strengthening in liquid water. <i>Nature</i> , 2021, 596, 531-535.	27.8	53
9	Novel Lanthanide-Based Polymeric Chains and Corresponding Ultrafast Dynamics in Solution. <i>Inorganic Chemistry</i> , 2011, 50, 11990-12000.	4.0	48
10	Attosecond transient absorption spectroscopy: a ghost imaging approach to ultrafast absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2704-2712.	2.8	41
11	Attosecond coherent electron motion in Auger-Meitner decay. <i>Science</i> , 2022, 375, 285-290.	12.6	40
12	Elucidating the Early Steps in Photoinitiated Radical Polymerization via Femtosecond Pump-Probe Experiments and DFT Calculations. <i>Macromolecules</i> , 2012, 45, 2257-2266.	4.8	37
13	Liquid-phase mega-electron-volt ultrafast electron diffraction. <i>Structural Dynamics</i> , 2020, 7, 024301.	2.3	37
14	Femtosecond gas-phase mega-electron-volt ultrafast electron diffraction. <i>Structural Dynamics</i> , 2019, 6, 054305.	2.3	36
15	Imaging the short-lived hydroxyl-hydronium pair in ionized liquid water. <i>Science</i> , 2021, 374, 92-95.	12.6	36
16	Hexamethylcyclopentadiene: time-resolved photoelectron spectroscopy and ab initio multiple spawning simulations. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11770-11779.	2.8	35
17	Studying the polymerization initiation efficiency of acetophenone-type initiators via PLP-ESI-MS and femtosecond spectroscopy. <i>Polymer Chemistry</i> , 2014, 5, 5053-5068.	3.9	33
18	Ultrafast Dynamics of <i>o</i> -Nitrophenol: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9225-9235.	2.5	33

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19	Observation of Ultrafast Intersystem Crossing in Thymine by Extreme Ultraviolet Time-Resolved Photoelectron Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6897-6903.	2.5	29
20	Resonant tunneling through the repulsive Coulomb barrier of a quadruply charged molecular anion. <i>Physical Review A</i> , 2012, 85, .	2.5	27
21	A theoretical and experimental benchmark study of core-excited states in nitrogen. <i>Journal of Chemical Physics</i> , 2018, 148, 064106.	3.0	27
22	Following excited-state chemical shifts in molecular ultrafast x-ray photoelectron spectroscopy. <i>Nature Communications</i> , 2022, 13, 198.	12.8	24
23	Emitter-site-selective photoelectron circular dichroism of trifluoromethyloxirane. <i>Physical Review A</i> , 2017, 95, .	2.5	22
24	Femtosecond-resolved observation of the fragmentation of buckminsterfullerene following X-ray multiphoton ionization. <i>Nature Physics</i> , 2019, 15, 1279-1283.	16.7	22
25	Synthesis and Application of Photolithographically Patternable Deep Blue Emitting Poly(3,6-Dimethoxy-9,9-dialkylsilafluorene)s. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 83-93.	8.0	21
26	Diffraction imaging of dissociation and ground-state dynamics in a complex molecule. <i>Physical Review A</i> , 2019, 100, .	2.5	21
27	Conformer-specific photochemistry imaged in real space and time. <i>Science</i> , 2021, 374, 178-182.	12.6	20
28	Observing Femtosecond Fragmentation Using Ultrafast X-ray-Induced Auger Spectra. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 681.	2.5	19
29	Electron tunneling from electronically excited states of isolated bisdisulizole-derived trianion chromophores following UV absorption. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6726.	2.8	18
30	Intermolecular Coulombic Decay in Endohedral Fullerene at the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle d \langle \text{mml:mi} \rangle \langle \text{mml:mo} \text{stretchy="false"} \rangle \hat{\text{t}}' \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Resonance. <i>Physical Review Letters</i> , 2020, 124, 113002.	7.8	18
31	Site-specific interrogation of an ionic chiral fragment during photolysis using an X-ray free-electron laser. <i>Communications Chemistry</i> , 2021, 4, .	4.5	17
32	Normal and resonant Auger spectroscopy of isocyanic acid, HNCO. <i>Journal of Chemical Physics</i> , 2018, 149, 034308.	3.0	16
33	Spectroscopic Signature of Chemical Bond Dissociation Revealed by Calculated Core-Electron Spectra. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6536-6544.	4.6	15
34	Photochemical pathways in nucleobases measured with an X-ray FEL. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20170473.	3.4	15
35	Ultrafast Imaging of Molecules with Electron Diffraction. <i>Annual Review of Physical Chemistry</i> , 2022, 73, 21-42.	10.8	15
36	Understanding the modulation mechanism in resonance-enhanced multiphoton probing of molecular dynamics. <i>Physical Review A</i> , 2015, 91, .	2.5	13

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37	Structure retrieval in liquid-phase electron scattering. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1308-1316.	2.8	13
38	Photodissociation of aqueous I3 ^{•-} observed with liquid-phase ultrafast mega-electron-volt electron diffraction. <i>Structural Dynamics</i> , 2020, 7, 064901.	2.3	13
39	Soft-x-ray-induced ionization and fragmentation dynamics of Sc ₃ N ₃ @C ₈₀ investigated using an ion-ion-coincidence momentum-imaging technique. <i>Physical Review A</i> , 2017, 96, .	2.5	11
40	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
41	Electron-ion coincidence measurements of molecular dynamics with intense X-ray pulses. <i>Scientific Reports</i> , 2021, 11, 505.	3.3	11
42	Transient resonant Auger [•] Meitner spectra of photoexcited thymine. <i>Faraday Discussions</i> , 2021, 228, 555-570.	3.2	11
43	The Role of Super-Atom Molecular Orbitals in Doped Fullerenes in a Femtosecond Intense Laser Field. <i>Scientific Reports</i> , 2017, 7, 121.	3.3	10
44	Ultrafast dynamics of 2-thiouracil investigated by time-resolved Auger spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 54, 014002.	1.5	10
45	Femtosecond photoelectron and photoion spectrometer with vacuum ultraviolet probe pulses. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 197, 22-29.	1.7	9
46	Auger electron and photoabsorption spectra of glycine in the vicinity of the oxygen K-edge measured with an X-FEL. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 234004.	1.5	9
47	Time-resolved photoelectron spectroscopy of nitrobenzene and its aldehydes. <i>Chemical Physics Letters</i> , 2018, 691, 379-387.	2.6	9
48	Multichannel photodissociation dynamics in CS ₂ studied by ultrafast electron diffraction. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 15416-15427.	2.8	9
49	Fragmentation of endohedral fullerene Sc ₃ N ₃ @C ₈₀ in an	2.5	6
50	Core-Level Spectroscopy of 2-Thiouracil at the Sulfur L1- and L2,3-Edges Utilizing a SASE Free-Electron Laser. <i>Molecules</i> , 2021, 26, 6469.	3.8	6
51	Ultrafast photoinduced dynamics of halogenated cyclopentadienes: observation of geminate charge-transfer complexes in solution. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6673.	2.8	5
52	Photo-ionization and fragmentation of Sc ₃ N@C ₈₀ following excitation above the Sc K-edge. <i>Journal of Chemical Physics</i> , 2019, 151, 104308.	3.0	5
53	The time-resolved atomic, molecular and optical science instrument at the Linac Coherent Light Source. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 957-968.	2.4	5
54	Fluorescence Quenching over Short Range in a Donor [•] DNA [•] Acceptor System. <i>ChemPhysChem</i> , 2013, 14, 1197-1204.	2.1	3

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55	The X-ray Focusing System at the Time-Resolved AMO Instrument. Synchrotron Radiation News, 0, , 1-9.	0.8	3
56	Ultrafast Structural Changes in Chiral Molecules Measured with Free-Electron Lasers. Journal of Physics: Conference Series, 2020, 1412, 112009.	0.4	2
57	Probing molecular photoinduced dynamics by ultrafast soft x-rays. , 2017, , .		1
58	Depletion Mechanisms in STED-inspired Lithography. , 2012, , .		0
59	The interplay of different relaxation channels in the excited state dynamics of photoinitiators. EPJ Web of Conferences, 2013, 41, 05008.	0.3	0
60	The Role of Super-Atom Molecular Orbitals in Doped Fullerenes in a Femtosecond Intense Laser Field. Journal of Physics: Conference Series, 2017, 875, 032017.	0.4	0
61	A tilted pulse-front setup for femtosecond transient grating spectroscopy in highly non-collinear geometries. Journal of Optics (United Kingdom), 2018, 20, 095501.	2.2	0
62	Arrival Time Monitor for Sub-10 fs Soft X-ray and 800 nm Optical Pulses. , 2021, , .		0
63	Observation of conformer-specific photochemical dynamics with MeV ultrafast electron diffraction. , 2021, , .		0
64	Direct Comparison of Multi-photon and EUV Single-Photon Probing of Molecular Relaxation Processes. Springer Proceedings in Physics, 2015, , 48-51.	0.2	0