

# Florian Trinter

## List of Publications by Year in descending order

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103  
papers

17,253  
citations

236612

25  
h-index

51492

86  
g-index

106  
all docs

106  
docs citations

106  
times ranked

39660  
citing authors

#	ARTICLE	IF	CITATIONS
1	Double-slit photoelectron interference in strong-field ionization of the neon dimer. Nature Communications, 2019, 10, 1.	5.8	15,301
2	Resonant Auger decay driving intermolecular Coulombic decay in molecular dimers. Nature, 2014, 505, 664-666.	13.7	119
3	Ultrafast preparation and detection of ring currents in single atoms. Nature Physics, 2018, 14, 701-704.	6.5	93
4	Imaging the He $\langle \text{sub} \rangle 2 \langle \text{sub} \rangle$ quantum halo state using a free electron laser. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14651-14655.	3.3	76
5	Evolution of Interatomic Coulombic Decay in the Time Domain. Physical Review Letters, 2013, 111, 093401.	2.9	64
6	Zeptosecond birth time delay in molecular photoionization. Science, 2020, 370, 339-341.	6.0	62
7	Electron-Nuclear Energy Sharing in Above-Threshold Multiphoton Dissociative Ionization of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="bold"} \rangle \text{H} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ . Physical Review Letters, 2013, 111, 023002.	2.9	59
8	Imaging the structure of the trimer systems 4He3 and 3He4He2. Nature Communications, 2014, 5, 5765.	5.8	59
9	Agreement of Experiment and Theory on the Single Ionization of Helium by Fast Proton Impact. Physical Review Letters, 2016, 116, 073201.	2.9	55
10	Spin and Angular Momentum in Strong-Field Ionization. Physical Review Letters, 2018, 120, 043202.	2.9	54
11	Enhanced production of low energy electrons by alpha particle impact. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11821-11824.	3.3	53
12	Vibrationally Resolved Decay Width of Interatomic Coulombic Decay in HeNe. Physical Review Letters, 2013, 111, 233004.	2.9	53
13	Absolute ion detection efficiencies of microchannel plates and funnel microchannel plates for multi-coincidence detection. Review of Scientific Instruments, 2018, 89, 045112.	0.6	49
14	X-ray multiphoton-induced Coulomb explosion images complex single molecules. Nature Physics, 2022, 18, 423-428.	6.5	48
15	Observation of Enhanced Chiral Asymmetries in the Inner-Shell Photoionization of Uniaxially Oriented Methyloxirane Enantiomers. Journal of Physical Chemistry Letters, 2017, 8, 2780-2786.	2.1	47
16	Ejection of Quasi-Free-Electron Pairs from the Helium-Atom Ground State by Single-Photon Absorption. Physical Review Letters, 2013, 111, 013003.	2.9	43
17	Accurate vertical ionization energy and work function determinations of liquid water and aqueous solutions. Chemical Science, 2021, 12, 10558-10582.	3.7	40
18	Ionization Dynamics of Helium Dimers in Fast Collisions with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mmsup} \rangle \langle \text{mml:mi} \rangle \text{He} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle ++ \langle \text{mml:mo} \rangle \langle \text{mml:mmsup} \rangle \langle \text{mml:math} \rangle$ . Physical Review Letters, 2011, 106, 033201.	2.9	39

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19	Absolute Configuration from Different Multifragmentation Pathways in Light-Induced Coulomb Explosion Imaging. ChemPhysChem, 2016, 17, 2465-2472.	1.0	39
20	Ion-impact-induced interatomic Coulombic decay in neon and argon dimers. Physical Review A, 2013, 88, .	1.0	37
21	Low-energy constraints on photoelectron spectra measured from liquid water and aqueous solutions. Physical Chemistry Chemical Physics, 2021, 23, 8246-8260.	1.3	33
22	Observation of Electron Energy Discretization in Strong Field Double Ionization. Physical Review Letters, 2013, 111, 113003.	2.9	32
23	Photoelectron Diffraction Imaging of a Molecular Breakup Using an X-Ray Free-Electron Laser. Physical Review X, 2020, 10, .	2.8	31
24	Imaging the Temporal Evolution of Molecular Orbitals during Ultrafast Dissociation. Physical Review Letters, 2016, 117, 243002.	2.9	29
25	Imaging the square of the correlated two-electron wave function of a hydrogen molecule. Nature Communications, 2017, 8, 2266.	5.8	28
26	Kinematically complete experimental study of Compton scattering at helium atoms near the threshold. Nature Physics, 2020, 16, 756-760.	6.5	25
27	Multiple Photodetachment of Carbon Anions via Single and Double Core-Hole Creation. Physical Review Letters, 2020, 124, 083203.	2.9	24
28	Measuring the photoelectron emission delay in the molecular frame. Nature Communications, 2021, 12, 6657.	5.8	24
29	Double Core-Hole Generation in $O_2$ Molecules Using an X-Ray Free-Electron Laser: Molecular-Frame Photoelectron Angular Distributions.	2.9	24
30	Observation of Photoion Backward Emission in Photoionization of He and $N_2$ . Physical Review Letters, 2020, 124, 233201.	2.9	22
31	<i>Ab initio</i> calculation of ICD widths in photoexcited HeNe. Journal of Chemical Physics, 2014, 140, 224305.	1.2	21
32	Separating Dipole and Quadrupole Contributions to Single-Photon Double Ionization. Physical Review Letters, 2018, 121, 173003.	2.9	20
33	Resonant interatomic Coulombic decay in HeNe: Electron angular emission distributions. Physical Review A, 2018, 97, .	1.0	20
34	Fourfold Differential Photoelectron Circular Dichroism. Physical Review Letters, 2021, 127, 103201.	2.9	20
35	Detecting ultrafast interatomic electronic processes in media by fluorescence. New Journal of Physics, 2014, 16, 102002.	1.2	19
36	Orientation dependence in multiple ionization of $HeNe_2$ by fast, highly charged ions: Probing the impact-parameter-dependent ionization probability in $11.37\text{-MeV/u}$ $S^{28+}$ Ph	1.0	19

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37	Time-resolved studies of interatomic Coulombic decay. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 237-244.	0.8	19
38	A setup for studies of photoelectron circular dichroism from chiral molecules in aqueous solution. Review of Scientific Instruments, 2022, 93, 015101.	0.6	19
39	Recovery of High-Energy Photoelectron Circular Dichroism through Fano Interference. Physical Review Letters, 2019, 123, 043202.	2.9	18
40	Determination of Interatomic Potentials of $\text{HeNe}$ . Physical Review Letters, 2018, 121, 083002.	2.9	17
41	Coulomb explosion imaging of small polyatomic molecules with ultrashort x-ray pulses. Physical Review Research, 2022, 4, .	1.3	17
42	Electron Localization in Dissociating $\text{H}_2$ . Physical Review Letters, 2016, 116, 043001.	2.9	16
43	Crystal growth rates in supercooled atomic liquid mixtures. Nature Materials, 2020, 19, 512-516.	13.3	16
44	Photon Momentum Transfer in Single-Photon Double Ionization of Helium. Physical Review Letters, 2020, 124, 043201.	2.9	16
45	Spectroscopic evidence for a gold-coloured metallic water solution. Nature, 2021, 595, 673-676.	13.7	16
46	Delocalization of a Vacancy across Two Neon Atoms Bound by the van der Waals Force. Physical Review Letters, 2016, 117, 263001.	2.9	15
47	Sideband modulation by subcycle interference. Physical Review A, 2020, 102, .	1.0	14
48	Visualizing the Geometry of Hydrogen Dimers. Journal of Physical Chemistry Letters, 2020, 11, 2457-2463.	2.1	14
49	A comprehensive study of Interatomic Coulombic Decay in argon dimers: Extracting R-dependent absolute decay rates from the experiment. Chemical Physics, 2017, 482, 185-191.	0.9	12
50	Frustrated Coulomb explosion of small helium clusters. Physical Review A, 2018, 98, .	1.0	12
51	Quantitative electronic structure and work-function changes of liquid water induced by solute. Physical Chemistry Chemical Physics, 2022, 24, 1310-1325.	1.3	12
52	Photoelectron circular dichroism in angle-resolved photoemission from liquid fenchone. Physical Chemistry Chemical Physics, 2022, 24, 8081-8092.	1.3	12
53	Interatomic-Coulombic-decay-induced recapture of photoelectrons in helium dimers. Physical Review A, 2014, 90, .	1.0	11
54	Molecular frame photoelectron angular distributions for core ionization of ethane, carbon tetrafluoride and 1,1-difluoroethylene. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 055203.	0.6	11

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55	Stereochemical configuration and selective excitation of the chiral molecule halothane. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 234001.	0.6	11
56	Recoil-Induced Asymmetry of Nondipole Molecular Frame Photoelectron Angular Distributions in the Hard X-ray Regime. Physical Review Letters, 2019, 123, 243201.	2.9	11
57	Photoelectron circular dichroism of O 1s-photoelectrons of uniaxially oriented trifluoromethyloxirane: energy dependence and sensitivity to molecular configuration. Physical Chemistry Chemical Physics, 2021, 23, 17248-17258.	1.3	11
58	Photoelectron angular distributions as sensitive probes of surfactant layer structure at the liquid-vapor interface. Physical Chemistry Chemical Physics, 2022, 24, 4796-4808.	1.3	11
59	Breakdown of the Spectator Concept in Low-Electron-Energy Resonant Decay Processes. Physical Review Letters, 2018, 121, 243002.	2.9	10
60	X-ray spectroscopy with variable line spacing based on reflection zone plate optics. Optics Letters, 2018, 43, 4390.	1.7	10
61	Direct observation of interatomic Coulombic decay and subsequent ion-atom scattering in helium nanodroplets. Physical Review A, 2019, 100, .	1.0	10
62	Inner-Shell-Ionization-Induced Femtosecond Structural Dynamics of Water Molecules Imaged at an X-Ray Free-Electron Laser. Physical Review X, 2021, 11, .	2.8	10
63	Fluorescence cascades evoked by resonant interatomic Coulombic decay of inner-valence excited neon clusters. Chemical Physics, 2017, 482, 165-168.	0.9	9
64	Direct 2D spatial-coherence determination using the Fourier-analysis method: multi-parameter characterization of the P04 beamline at PETRA-III. Optics Express, 2020, 28, 7282.	1.7	9
65	Photon-Momentum-Induced Molecular Dynamics in Photoionization of $N_2$ at $\sim 10$ eV	2.9	8
66	Suppression of X-ray-Induced Radiation Damage to Biomolecules in Aqueous Environments by Immediate Intermolecular Decay of Inner-Shell Vacancies. Journal of Physical Chemistry Letters, 2021, 12, 7146-7150.	2.1	8
67	Chiral photoelectron angular distributions from ionization of achiral atomic and molecular species. Physical Review Research, 2020, 2, .	1.3	8
68	Following in Emil Fischer's Footsteps: A Site-Selective Probe of Glucose Acid-Base Chemistry. Journal of Physical Chemistry A, 2021, 125, 6881-6892.	1.1	7
69	Shell single and double core-hole production and decay in $L$ -shell		

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73	Multi-fragment vector correlation imaging. A search for hidden dynamical symmetries in many-particle molecular fragmentation processes. <i>Molecular Physics</i> , 2012, 110, 1863-1872.	0.8	6
74	Revealing the two-electron cusp in the ground states of He and $H^2$ via quasifree double photoionization. <i>Physical Review Research</i> , 2020, 2, .	1.3	6
75	Resonance-enhanced x-ray multiple ionization of a polyatomic molecule. <i>Physical Review A</i> , 2022, 105, .	1.0	5
76	Born in weak fields: below-threshold photoelectron dynamics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 034002.	0.6	4
77	Probing aqueous ions with non-local Auger relaxation. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8661-8671.	1.3	4
78	Interatomic Coulombic Decay of HeNe dimers after ionization and excitation of He and Ne. <i>Chemical Physics</i> , 2017, 482, 221-225.	0.9	3
79	Closed-loop recycling of rare liquid samples for gas-phase experiments. <i>Review of Scientific Instruments</i> , 2021, 92, 023205.	0.6	3
80	Multiple photodetachment of silicon anions via $K$ -shell excitation and ionization. <i>Physical Review A</i> , 2021, 104, .	1.0	3
81	Ultrafast temporal evolution of interatomic Coulombic decay in NeKr dimers. <i>Chemical Science</i> , 2022, 13, 1789-1800.	3.7	3
82	Search for isotope effects in projectile and target ionization in swiftHe+onH2orD2collisions. <i>Physical Review A</i> , 2014, 89, .	1.0	2
83	Influence of the emission site on the photoelectron circular dichroism in trifluoromethyloxirane. <i>Physical Chemistry Chemical Physics</i> , 0, , .	1.3	2
84	Experimental Proof of Resonant Auger Decay Driven Intermolecular Coulombic Decay. <i>Journal of Physics: Conference Series</i> , 2014, 488, 022009.	0.3	1
85	Enabling time-resolved 2D spatial-coherence measurements using the Fourier-analysis method with an integrated curved-grating beam monitor. <i>Optics Letters</i> , 2020, 45, 5591.	1.7	1
86	Quasifree Photoionization under the Reaction Microscope. <i>Atoms</i> , 2022, 10, 68.	0.7	1
87	Transfer ionization and double capture of helium dimers. <i>Journal of Physics: Conference Series</i> , 2009, 194, 102042.	0.3	0
88	Quasi free mechanism in single photon double ionization of Helium. <i>Journal of Physics: Conference Series</i> , 2012, 388, 022021.	0.3	0
89	Double Auger Emission of fixed-in-space Carbon Monoxide following Core-Excitation and Ionization. <i>Journal of Physics: Conference Series</i> , 2012, 388, 022066.	0.3	0
90	Transfer ionization in swift D+on H2collisions – dependence of the electron emission on the internuclear distance. <i>Journal of Physics: Conference Series</i> , 2012, 388, 102030.	0.3	0

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91	Investigation of the helium dimer vibrational wavefunction using strong laser-fields. Journal of Physics: Conference Series, 2012, 388, 032031.	0.3	0
92	Ion impact induced ionization/fragmentation dynamics of rare gas Dimers. Journal of Physics: Conference Series, 2014, 488, 102006.	0.3	0
93	Transfer ionization of D <sup>+</sup> and He <sup>+</sup> projectiles with H <sub>2</sub> -molecules – electron emission dependency on the internuclear axis. Journal of Physics: Conference Series, 2014, 488, 102003.	0.3	0
94	Single photon double ionization of Helium at 800 eV – observation of the Quasi Free Mechanism. Journal of Physics: Conference Series, 2014, 488, 022007.	0.3	0
95	A measurement of the evolution of Interatomic Coulombic Decay in the time domain. Journal of Physics: Conference Series, 2014, 488, 022047.	0.3	0
96	Direct Determination of Molecular Handedness via Coulomb Explosion Imaging. Journal of Physics: Conference Series, 2015, 635, 112065.	0.3	0
97	A Single Atom Antenna. Journal of Physics: Conference Series, 2015, 635, 112099.	0.3	0
98	A molecular movie of Interatomic Coulombic Decay in NeKr. Journal of Physics: Conference Series, 2015, 635, 112100.	0.3	0
99	Absolute Configuration from Different Multifragmentation Pathways in Light-Induced Coulomb Explosion Imaging. ChemPhysChem, 2016, 17, 2450-2450.	1.0	0
100	Localized or delocalized K-holes in N <sub>2</sub> : Photoelectron-Auger electron coincidence experiments with high energy resolution. Journal of Physics: Conference Series, 2017, 875, 032009.	0.3	0
101	Stereochemical configuration and selective excitation of the chiral molecule halothane. Journal of Physics: Conference Series, 2017, 875, 032023.	0.3	0
102	Molecular-frame angular distributions of spectator resonant interatomic coulombic decay electrons in neon dimers. Journal of Physics: Conference Series, 2020, 1412, 132035.	0.3	0
103	Study of chiral asymmetries in the inner-shell photoionization of partially oriented trifluoro-methyloxirane. Journal of Physics: Conference Series, 2020, 1412, 152097.	0.3	0