

# 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	Quantitative electronic structure and work-function changes of liquid water induced by solute. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1310-1325.	1.3	12
2	A setup for studies of photoelectron circular dichroism from chiral molecules in aqueous solution. <i>Review of Scientific Instruments</i> , 2022, 93, 015101.	0.6	19
3	Ion and Electron Momentum Distributions from Single and Double Ionization of Helium Induced by Compton Scattering. <i>Physical Review Letters</i> , 2022, 128, 053001.	2.9	7
4	Coulomb explosion imaging of small polyatomic molecules with ultrashort x-ray pulses. <i>Physical Review Research</i> , 2022, 4, .	1.3	17
5	Ultrafast temporal evolution of interatomic Coulombic decay in NeKr dimers. <i>Chemical Science</i> , 2022, 13, 1789-1800.	3.7	3
6	Photoelectron angular distributions as sensitive probes of surfactant layer structure at the liquid-vapor interface. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4796-4808.	1.3	11
7	Photoelectron circular dichroism in angle-resolved photoemission from liquid fenchone. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8081-8092.	1.3	12
8	Probing aqueous ions with non-local Auger relaxation. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8661-8671.	1.3	4
9	X-ray multiphoton-induced Coulomb explosion images complex single molecules. <i>Nature Physics</i> , 2022, 18, 423-428.	6.5	48
10	Photoelectron Spectroscopy of Benzene in the Liquid Phase and Dissolved in Liquid Ammonia. <i>Journal of Physical Chemistry B</i> , 2022, 126, 229-238.	1.2	7
11	Resonance-enhanced x-ray multiple ionization of a polyatomic molecule. <i>Physical Review A</i> , 2022, 105, .	1.0	5
12	Quasifree Photoionization under the Reaction Microscope. <i>Atoms</i> , 2022, 10, 68.	0.7	1
13	Accurate vertical ionization energy and work function determinations of liquid water and aqueous solutions. <i>Chemical Science</i> , 2021, 12, 10558-10582.	3.7	40
14	Low-energy constraints on photoelectron spectra measured from liquid water and aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8246-8260.	1.3	33
15	Closed-loop recycling of rare liquid samples for gas-phase experiments. <i>Review of Scientific Instruments</i> , 2021, 92, 023205.	0.6	3
16	Following in Emil Fischer's Footsteps: A Site-Selective Probe of Glucose Acid-Base Chemistry. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6881-6892.	1.1	7
17	Suppression of X-ray-Induced Radiation Damage to Biomolecules in Aqueous Environments by Immediate Intermolecular Decay of Inner-Shell Vacancies. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7146-7150.	2.1	8
18	Spectroscopic evidence for a gold-coloured metallic water solution. <i>Nature</i> , 2021, 595, 673-676.	13.7	16

#	ARTICLE	IF	CITATIONS
19	<a href="#">Title in &lt;mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;&lt;mml:mi&gt;L&lt;/mml:mi&gt;&lt;/mml:math&gt;</a> -shell single and double core-hole production and decay in <mml:math>		



#	ARTICLE	IF	CITATIONS
37	Angular emission distribution of O 1s photoelectrons of uniaxially oriented methanol. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 194002.	0.6	7
38	Revealing the two-electron cusp in the ground states of He and $H^+$ via quasifree double photoionization. Physical Review Research, 2020, 2, .	1.3	6
39	Chiral photoelectron angular distributions from ionization of achiral atomic and molecular species. Physical Review Research, 2020, 2, .	1.3	8
40	Direct 2D spatial-coherence determination using the Fourier-analysis method: multi-parameter characterization of the P04 beamline at PETRAIII. Optics Express, 2020, 28, 7282.	1.7	9
41	Enabling time-resolved 2D spatial-coherence measurements using the Fourier-analysis method with an integrated curved-grating beam monitor. Optics Letters, 2020, 45, 5591.	1.7	1
42	Recovery of High-Energy Photoelectron Circular Dichroism through Fano Interference. Physical Review Letters, 2019, 123, 043202.	2.9	18
43	Photon Momentum-Induced Molecular Dynamics in Photoionization of $N_2$ at $h\nu = 29$ eV. Physical Review Letters, 2019, 123, 043202.	2.9	8
44	Direct observation of interatomic Coulombic decay and subsequent ion-atom scattering in helium nanodroplets. Physical Review A, 2019, 100, .	1.0	10
45	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
46	Double-slit photoelectron interference in strong-field ionization of the neon dimer. Nature Communications, 2019, 10, 1.	5.8	15,301
47	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
48	Spin and Angular Momentum in Strong-Field Ionization. Physical Review Letters, 2018, 120, 043202.	2.9	54
49	Ultrafast preparation and detection of ring currents in single atoms. Nature Physics, 2018, 14, 701-704.	6.5	93
50	Frustrated Coulomb explosion of small helium clusters. Physical Review A, 2018, 98, .	1.0	12
51	Breakdown of the Spectator Concept in Low-Electron-Energy Resonant Decay Processes. Physical Review Letters, 2018, 121, 243002.	2.9	10
52	Separating Dipole and Quadrupole Contributions to Single-Photon Double Ionization. Physical Review Letters, 2018, 121, 173003.	2.9	20
53	X-ray spectroscopy with variable line spacing based on reflection zone plate optics. Optics Letters, 2018, 43, 4390.	1.7	10
54	Resonant interatomic Coulombic decay in HeNe: Electron angular emission distributions. Physical Review A, 2018, 97, .	1.0	20

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55	Determination of Interatomic Potentials of $\text{HeNe}$ and $\text{HeNe}_2$ . <i>Physical Review Letters</i> , 2018, 121, 083002.	2.9	17
56	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
57	Observation of Enhanced Chiral Asymmetries in the Inner-Shell Photoionization of Uniaxially Oriented Methyloxirane Enantiomers. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2780-2786.	2.1	47
58	Localized or delocalized K-holes in N <sub>2</sub> : Photoelectron-Auger electron coincidence experiments with high energy resolution. <i>Journal of Physics: Conference Series</i> , 2017, 875, 032009.	0.3	0
59	Fluorescence cascades evoked by resonant interatomic Coulombic decay of inner-valence excited neon clusters. <i>Chemical Physics</i> , 2017, 482, 165-168.	0.9	9
60	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
61	A comprehensive study of Interatomic Coulombic Decay in argon dimers: Extracting R-dependent absolute decay rates from the experiment. <i>Chemical Physics</i> , 2017, 482, 185-191.	0.9	12
62	Imaging the square of the correlated two-electron wave function of a hydrogen molecule. <i>Nature Communications</i> , 2017, 8, 2266.	5.8	28
63	Stereochemical configuration and selective excitation of the chiral molecule halothane. <i>Journal of Physics: Conference Series</i> , 2017, 875, 032023.	0.3	0
64	Absolute Configuration from Different Multifragmentation Pathways in Light-Induced Coulomb Explosion Imaging. <i>ChemPhysChem</i> , 2016, 17, 2465-2472.	1.0	39
65	Molecular frame photoelectron angular distributions for core ionization of ethane, carbon tetrafluoride and 1,1-difluoroethylene. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 055203.	0.6	11
66	Stereochemical configuration and selective excitation of the chiral molecule halothane. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 234001.	0.6	11
67	Imaging the He <sub>2</sub> quantum halo state using a free electron laser. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14651-14655.	3.3	76
68	Delocalization of a Vacancy across Two Neon Atoms Bound by the van der Waals Force. <i>Physical Review Letters</i> , 2016, 117, 263001.	2.9	15
69	Imaging the Temporal Evolution of Molecular Orbitals during Ultrafast Dissociation. <i>Physical Review Letters</i> , 2016, 117, 243002.	2.9	29
70	Electron Localization in Dissociating $\text{H}_2^+$ . Retroaction of a Photoelectron onto Its Source. <i>Physical Review Letters</i> , 2016, 116, 043001.	2.9	16
71	Agreement of Experiment and Theory on the Single Ionization of Helium by Fast Proton Impact. <i>Physical Review Letters</i> , 2016, 116, 073201.	2.9	55
72	Absolute Configuration from Different Multifragmentation Pathways in Light-Induced Coulomb Explosion Imaging. <i>ChemPhysChem</i> , 2016, 17, 2450-2450.	1.0	0

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73	Direct Determination of Molecular Handedness via Coulomb Explosion Imaging. Journal of Physics: Conference Series, 2015, 635, 112065.	0.3	0
74	A Single Atom Antenna. Journal of Physics: Conference Series, 2015, 635, 112099.	0.3	0
75	A molecular movie of Interatomic Coulombic Decay in NeKr. Journal of Physics: Conference Series, 2015, 635, 112100.	0.3	0
76	Time-resolved studies of interatomic Coulombic decay. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 237-244.	0.8	19
77	Detecting ultrafast interatomic electronic processes in media by fluorescence. New Journal of Physics, 2014, 16, 102002.	1.2	19
78	Orientation dependence in multiple ionization of $\text{He}^{2+}$ and $\text{Ne}^{2+}$ by fast, highly charged ions: Probing the impact-parameter-dependent ionization probability in 11.37-MeV/u $\text{S}^{16+}$ .	1.0	19
79	Ab initio calculation of ICD widths in photoexcited HeNe. Journal of Chemical Physics, 2014, 140, 224305.	1.2	21
80	Interatomic-Coulombic-decay-induced recapture of photoelectrons in helium dimers. Physical Review A, 2014, 90, .	1.0	11
81	Search for isotope effects in projectile and target ionization in swift $\text{He}^{+}$ on $\text{H}_2$ or $\text{D}_2$ collisions. Physical Review A, 2014, 89, .	1.0	2
82	Imaging the structure of the trimer systems $4\text{He}_3$ and $3\text{He}_4\text{He}_2$ . Nature Communications, 2014, 5, 5765.	5.8	59
83	Ion impact induced ionization/fragmentation dynamics of rare gas Dimers. Journal of Physics: Conference Series, 2014, 488, 102006.	0.3	0
84	Resonant Auger decay driving intermolecular Coulombic decay in molecular dimers. Nature, 2014, 505, 664-666.	13.7	119
85	Experimental Proof of Resonant Auger Decay Driven Intermolecular Coulombic Decay. Journal of Physics: Conference Series, 2014, 488, 022009.	0.3	1
86	Transfer ionization of $\text{D}^{+}$ and $\text{He}^{+}$ projectiles with $\text{H}_2$ -molecules: electron emission dependency on the internuclear axis. Journal of Physics: Conference Series, 2014, 488, 102003.	0.3	0
87	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
88	A measurement of the evolution of Interatomic Coulombic Decay in the time domain. Journal of Physics: Conference Series, 2014, 488, 022047.	0.3	0
89	Electron-Nuclear Energy Sharing in Above-Threshold Multiphoton Dissociative Ionization of $\text{H}_2^{2+}$ .	2.9	59
90	Ion-impact-induced interatomic Coulombic decay in neon and argon dimers. Physical Review A, 2013, 88, .	1.0	37

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91	Ejection of Quasi-Free-Electron Pairs from the Helium-Atom Ground State by Single-Photon Absorption. <i>Physical Review Letters</i> , 2013, 111, 013003.	2.9	43
92	Evolution of Interatomic Coulombic Decay in the Time Domain. <i>Physical Review Letters</i> , 2013, 111, 093401.	2.9	64
93	Observation of Electron Energy Discretization in Strong Field Double Ionization. <i>Physical Review Letters</i> , 2013, 111, 113003.	2.9	32
94	Vibrationally Resolved Decay Width of Interatomic Coulombic Decay in HeNe. <i>Physical Review Letters</i> , 2013, 111, 233004.	2.9	53
95	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
96	Quasi free mechanism in single photon double ionization of Helium. <i>Journal of Physics: Conference Series</i> , 2012, 388, 022021.	0.3	0
97	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
98	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
99	Investigation of the helium dimer vibrational wavefunction using strong laser-fields. <i>Journal of Physics: Conference Series</i> , 2012, 388, 032031.	0.3	0
100	Ionization Dynamics of Helium Dimers in Fast Collisions with $\text{He}^{++}$ . <i>Physical Review Letters</i> , 2011, 106, 033201.	2.9	39
101	Enhanced production of low energy electrons by alpha particle impact. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11821-11824.	3.3	53
102	Transfer ionization and double capture of helium dimers. <i>Journal of Physics: Conference Series</i> , 2009, 194, 102042.	0.3	0
103	Influence of the emission site on the photoelectron circular dichroism in trifluoromethyloxirane. <i>Physical Chemistry Chemical Physics</i> , 0, , .	1.3	2