

# Ludger Inhester

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

768  
citations

686830

13  
h-index

500791

28  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of the fastest chemical processes in the radiolysis of water. <i>Science</i> , 2020, 367, 179-182.	6.0	149
2	Femtosecond response of polyatomic molecules to ultra-intense hard X-rays. <i>Nature</i> , 2017, 546, 129-132.	13.7	139
3	X-ray multiphoton-induced Coulomb explosion images complex single molecules. <i>Nature Physics</i> , 2022, 18, 423-428.	6.5	48
4	Efficient electronic structure calculation for molecular ionization dynamics at high x-ray intensity. <i>Structural Dynamics</i> , 2015, 2, 041707.	0.9	47
5	Auger spectrum of a water molecule after single and double core ionization. <i>Journal of Chemical Physics</i> , 2012, 136, 144304.	1.2	46
6	X-ray multiphoton ionization dynamics of a water molecule irradiated by an x-ray free-electron laser pulse. <i>Physical Review A</i> , 2016, 94, .	1.0	35
7	Ultrafast isomerization in acetylene dication after carbon K-shell ionization. <i>Nature Communications</i> , 2017, 8, 453.	5.8	31
8	Chemical Understanding of the Limited Site-Specificity in Molecular Inner-Shell Photofragmentation. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1156-1163.	2.1	31
9	Cationic and Anionic Impact on the Electronic Structure of Liquid Water. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3759-3764.	2.1	26
10	Inner-shell X-ray absorption spectra of the cationic series NH <sub>y</sub> <sup>+z</sup> ( <i>y</i> = 1-10, <i>z</i> = 0-10). <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1156-1163.	1.3	19
11	The Low Barrier Hydrogen Bond in the Photoactive Yellow Protein: A Vacuum Artifact Absent in the Crystal and Solution. <i>Journal of the American Chemical Society</i> , 2016, 138, 16620-16631.	6.6	18
12	Site-specific interrogation of an ionic chiral fragment during photolysis using an X-ray free-electron laser. <i>Communications Chemistry</i> , 2021, 4, .	2.0	17
13	Ultrafast nuclear dynamics in the doubly-core-ionized water molecule observed via Auger spectroscopy. <i>Physical Review A</i> , 2018, 98, .	1.0	15
14	Spectroscopic Signature of Chemical Bond Dissociation Revealed by Calculated Core-Electron Spectra. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6536-6544.	2.1	15
15	Core hole screening and decay rates of double core ionized first row hydrides. <i>Journal of Chemical Physics</i> , 2013, 138, 164304.	1.2	13
16	Hole dynamics in a photovoltaic donor-acceptor couple revealed by simulated time-resolved X-ray absorption spectroscopy. <i>Structural Dynamics</i> , 2019, 6, 044102.	0.9	13
17	Molecular electronic decoherence following attosecond photoionisation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 164006.	0.6	13
18	Detecting coherent core-hole wave-packet dynamics in N <sub>2</sub> by time- and angle-resolved inner-shell photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 151, .	1.2	12

#	ARTICLE	IF	CITATIONS
19	Electron-ion coincidence measurements of molecular dynamics with intense X-ray pulses. Scientific Reports, 2021, 11, 505.	1.6	11
20	A localized view on molecular dissociation via electron-ion partial covariance. Communications Chemistry, 2022, 5, .	2.0	10
21	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
22	Electron and fluorescence spectra of a water molecule irradiated by an x-ray free-electron laser pulse. Physical Review A, 2018, 97, .	1.0	9
23	Simulation of time-resolved x-ray absorption spectroscopy of ultrafast dynamics in particle-hole-excited 4-((2-thienyl)-2,1,3-benzothiadiazole. Structural Dynamics, 2020, 7, 044101.	0.9	6
24	Pulse Energy and Pulse Duration Effects in the Ionization and Fragmentation of Iodomethane by Ultraintense Hard X Rays. Physical Review Letters, 2021, 127, 093202.	2.9	6
25	Initial state-selected scattering for the reactions H + CH <sub>4</sub> /CHD <sub>3</sub> and F + CHD <sub>3</sub> employing ring polymer molecular dynamics. Journal of Chemical Physics, 2022, 156, 044101.	1.2	6
26	Theoretical evidence for the sensitivity of charge-rearrangement-enhanced x-ray ionization to molecular size. Physical Review A, 2019, 100, .	1.0	5
27	Full counting statistics for noninteracting fermions: joint probability distributions. Journal of Physics Condensed Matter, 2009, 21, 474209.	0.7	3
28	Ultrafast time-resolved x-ray absorption spectroscopy of ionized urea and its dimer through <i>ab initio</i> nonadiabatic dynamics. Structural Dynamics, 2021, 8, 034102.	0.9	3
29	Simulated XUV photoelectron spectra of THz-pumped liquid water. Journal of Chemical Physics, 2019, 150, 044505.	1.2	2
30	Ultrafast Structural Changes in Chiral Molecules Measured with Free-Electron Lasers. Journal of Physics: Conference Series, 2020, 1412, 112009.	0.3	2
31	Statistical analysis of correlations in the x-ray induced Coulomb explosion of iodopyridine. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 194001.	0.6	2
32	Auger Spectrum of a Water Molecule after Single and Double Core-Ionization by Intense X-Ray Radiation. Biophysical Journal, 2012, 102, 392a.	0.2	0
33	Molecular ionization enhancement by charge rearrangement at high X-ray intensity. EPJ Web of Conferences, 2019, 205, 06009.	0.1	0
34	Enormous enhancement of molecular ionization at high x-ray intensity. Journal of Physics: Conference Series, 2020, 1412, 152051.	0.3	0
35	Strategies for solving the excited-state self-consistent-field problem for highly excited and multiply ionized states. Physical Review A, 2021, 104, .	1.0	0