Ludger Inhester

List of Publications by Year
in descending order

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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	Initial state-selected scattering for the reactions H + CH4/CHD3 and F + CHD3 employing ring polymer molecular dynamics. Journal of Chemical Physics, 2022, 156, 044101.	1.2	6
2	X-ray multiphoton-induced Coulomb explosion images complex single molecules. Nature Physics, 2022, 18, 423-428.	6.5	48
3	A localized view on molecular dissociation via electron-ion partial covariance. Communications Chemistry, 2022, 5, .	2.0	10
4	Electron-ion coincidence measurements of molecular dynamics with intense X-ray pulses. Scientific Reports, 2021, 11, 505.	1.6	11
5	Ultrafast time-resolved x-ray absorption spectroscopy of ionized urea and its dimer through ab initio nonadiabatic dynamics. Structural Dynamics, 2021, 8, 034102.	0.9	3
6	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
7	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
8	Site-specific interrogation of an ionic chiral fragment during photolysis using an X-ray free-electron laser. Communications Chemistry, 2021, 4, .	2.0	17
9	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
10	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
11	Observation of the fastest chemical processes in the radiolysis of water. Science, 2020, 367, 179-182.	6.0	149
12	Simulation of time-resolved x-ray absorption spectroscopy of ultrafast dynamics in particle-hole-excited 4â€(2-thienyl)-2,1,3-benzothiadiazole. Structural Dynamics, 2020, 7, 044101.	0.9	6
13	Enormous enhancement of molecular ionization at high x-ray intensity. Journal of Physics: Conference Series, 2020, 1412, 152051.	0.3	0
14	Molecular electronic decoherence following attosecond photoionisation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 164006.	0.6	13
15	Ultrafast Structural Changes in Chiral Molecules Measured with Free-Electron Lasers. Journal of Physics: Conference Series, 2020, 1412, 112009.	0.3	2
16	Hole dynamics in a photovoltaic donor-acceptor couple revealed by simulated time-resolved X-ray absorption spectroscopy. Structural Dynamics, 2019, 6, 044102.	0.9	13
17	Detecting coherent core-hole wave-packet dynamics in N2 by time- and angle-resolved inner-shell photoelectron spectroscopy. Journal of Chemical Physics, 2019, 151, .	1.2	12
18	Theoretical evidence for the sensitivity of charge-rearrangement-enhanced x-ray ionization to molecular size. Physical Review A, 2019, 100, .	1.0	5

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19	Inner-shell X-ray absorption spectra of the cationic series NH_y⁺ (y =) Tj ETQq1 1 0.784314 rgBT /Ove	1.3	19
20	Molecular ionization enhancement by charge rearrangement at high X-ray intensity. EPJ Web of Conferences, 2019, 205, 06009.	0.1	0
21	Spectroscopic Signature of Chemical Bond Dissociation Revealed by Calculated Core-Electron Spectra. Journal of Physical Chemistry Letters, 2019, 10, 6536-6544.	2.1	15
22	Simulated XUV photoelectron spectra of THz-pumped liquid water. Journal of Chemical Physics, 2019, 150, 044505.	1.2	2
23	Chemical Understanding of the Limited Site-Specificity in Molecular Inner-Shell Photofragmentation. Journal of Physical Chemistry Letters, 2018, 9, 1156-1163.	2.1	31
24	Ultrafast nuclear dynamics in the doubly-core-ionized water molecule observed via Auger spectroscopy. Physical Review A, 2018, 98, .	1.0	15
25	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
26	Femtosecond response of polyatomic molecules to ultra-intense hard X-rays. Nature, 2017, 546, 129-132.	13.7	139
27	Ultrafast isomerization in acetylene dication after carbon K-shell ionization. Nature Communications, 2017, 8, 453.	5.8	31
28	Cationic and Anionic Impact on the Electronic Structure of Liquid Water. Journal of Physical Chemistry Letters, 2017, 8, 3759-3764.	2.1	26
29	The Low Barrier Hydrogen Bond in the Photoactive Yellow Protein: A Vacuum Artifact Absent in the Crystal and Solution. Journal of the American Chemical Society, 2016, 138, 16620-16631.	6.6	18
30	X-ray multiphoton ionization dynamics of a water molecule irradiated by an x-ray free-electron laser pulse. Physical Review A, 2016, 94, .	1.0	35
31	Efficient electronic structure calculation for molecular ionization dynamics at high x-ray intensity. Structural Dynamics, 2015, 2, 041707.	0.9	47
32	Core hole screening and decay rates of double core ionized first row hydrides. Journal of Chemical Physics, 2013, 138, 164304.	1.2	13
33	Auger spectrum of a water molecule after single and double core ionization. Journal of Chemical Physics, 2012, 136, 144304.	1.2	46
34	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
35	Full counting statistics for noninteracting fermions: joint probability distributions. Journal of Physics Condensed Matter, 2009, 21, 474209.	0.7	3