

Ulrich J Lorenz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28

papers

543

citations

13

h-index

23

g-index

31

ext. papers

637

ext. citations

6.7

avg, IF

3.84

L-index

#	Paper	IF	Citations
28	Accurate time zero determination in an ultrafast transmission electron microscope without energy filter. <i>Applied Physics Letters</i> , 2022 , 120, 104103	3.4	0
27	Rapid In Situ Melting and Revitrification as an Approach to Microsecond Time-Resolved Cryo-Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2021 , 27, 17-18	0.5	0
26	The Fragmentation Mechanism of Gold Nanoparticles in Water under Femtosecond Laser Irradiation. <i>Microscopy and Microanalysis</i> , 2021 , 27, 65-66	0.5	
25	Microsecond melting and revitrification of cryo samples. <i>Structural Dynamics</i> , 2021 , 8, 054302	3.2	0
24	Atomic-Resolution Imaging of Fast Nanoscale Dynamics with Bright Microsecond Electron Pulses. <i>Nano Letters</i> , 2021 , 21, 612-618	11.5	4
23	The fragmentation mechanism of gold nanoparticles in water under femtosecond laser irradiation. <i>Nanoscale Advances</i> , 2021 , 3, 5277-5283	5.1	6
22	High-Resolution Transmission Electron Microscopy with Bright Microsecond Electron Pulses. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2714-2717	0.5	
21	Rapid melting and revitrification as an approach to microsecond time-resolved cryo-electron microscopy. <i>Chemical Physics Letters</i> , 2021 , 778, 138812	2.5	2
20	Intense microsecond electron pulses from a Schottky emitter. <i>Applied Physics Letters</i> , 2020 , 116, 234103	3.4	4
19	Real-time observation of jumping and spinning nanodroplets. <i>Structural Dynamics</i> , 2020 , 7, 011101	3.2	2
18	Characterization of a time-resolved electron microscope with a Schottky field emission gun. <i>Structural Dynamics</i> , 2020 , 7, 054304	3.2	7
17	Observation of Coulomb Fission of Individual Plasmonic Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 12445-12451	16.7	16
16	Observing Liquid Flow in Nanotubes. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1205-1206	0.5	
15	Structural melting of an amino acid dimer upon intersystem crossing. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14974-80	16.4	8
14	Nanofluidics. Observing liquid flow in nanotubes by 4D electron microscopy. <i>Science</i> , 2014 , 344, 1496-500	33.3	42
13	4D cryo-electron microscopy of proteins. <i>Journal of the American Chemical Society</i> , 2013 , 135, 19123-6	16.4	28
12	A radio frequency/high voltage pulse generator for the operation of a planar multipole ion trap/time-of-flight mass spectrometer. <i>Review of Scientific Instruments</i> , 2013 , 84, 044707	1.7	5

11	Biomechanics of DNA structures visualized by 4D electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2822-7	11.5	30
10	Multiple isomers and protonation sites of the phenylalanine/serine dimer. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11053-5	16.4	22
9	Planar multipole ion trap/time-of-flight mass spectrometer. <i>Analytical Chemistry</i> , 2011 , 83, 7895-901	7.8	12
8	IR spectroscopy of isolated metalorganic complexes of biocatalytic interest: Evidence for coordination number four for Zn ²⁺ (imidazole) ₄ . <i>International Journal of Mass Spectrometry</i> , 2011 , 308, 316-329	1.9	14
7	A new tandem mass spectrometer for photofragment spectroscopy of cold, gas-phase molecular ions. <i>Review of Scientific Instruments</i> , 2010 , 81, 073107	1.7	63
6	Structure of zirconocene complexes relevant for olefin catalysis: infrared fingerprint of the Zr(C ₅ H ₅) ₂ (OH)(CH ₃ CN) ⁺ cation in the gas phase. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 2073-2078	2.8	16
5	Spectroscopy of protonated peptides assisted by infrared multiple photon excitation. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 797-9	2.8	39
4	Infrared spectra of isolated protonated polycyclic aromatic hydrocarbons: protonated naphthalene. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6714-6	16.4	85
3	Protonation of heterocyclic aromatic molecules: IR signature of the protonation site of furan and pyrrole. <i>International Journal of Mass Spectrometry</i> , 2007 , 267, 43-53	1.9	39
2	Hexaferrocenylbenzene. <i>Chemical Communications</i> , 2006 , 2572-4	5.8	74
1	Entrance channel complexes of cationic aromatic S _N 2 reactions: IR spectra of fluorobenzene+(H ₂ O) _n clusters. <i>Chemical Physics Letters</i> , 2005 , 406, 321-326	2.5	25