

Nils Huse

List of Publications by Year in descending order

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68
papers

3,286
citations

172207

29
h-index

143772

57
g-index

68
all docs

68
docs citations

68
times ranked

3306
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast memory loss and energy redistribution in the hydrogen bond network of liquid H ₂ O. <i>Nature</i> , 2005, 434, 199-202.	13.7	691
2	Temperature dependence of the two-dimensional infrared spectrum of liquid H ₂ O. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 437-442.	3.3	242
3	Ultrafast Structural Dynamics of Water Induced by Dissipation of Vibrational Energy. <i>Journal of Physical Chemistry A</i> , 2007, 111, 743-746.	1.1	195
4	Femtosecond Soft X-ray Spectroscopy of Solvated Transition-Metal Complexes: Deciphering the Interplay of Electronic and Structural Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 880-884.	2.1	169
5	Coherent low-frequency motions of hydrogen bonded acetic acid dimers in the liquid phase. <i>Journal of Chemical Physics</i> , 2004, 121, 902-913.	1.2	138
6	Photo-Induced Spin-State Conversion in Solvated Transition Metal Complexes Probed via Time-Resolved Soft X-ray Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 6809-6816.	6.6	135
7	Vibrational couplings and ultrafast relaxation of the O-H bending mode in liquid H ₂ O. <i>Chemical Physics Letters</i> , 2006, 424, 66-70.	1.2	122
8	Ultrafast vibrational relaxation of O-H bending and librational excitations in liquid H ₂ O. <i>Chemical Physics Letters</i> , 2005, 404, 389-393.	1.2	118
9	Phase fluctuations and the absence of topological defects in a photo-excited charge-ordered nickelate. <i>Nature Communications</i> , 2012, 3, 838.	5.8	85
10	Atomic-Scale Perspective of Ultrafast Charge Transfer at a Dye-Semiconductor Interface. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2753-2759.	2.1	79
11	Anharmonic Couplings Underlying the Ultrafast Vibrational Dynamics of Hydrogen Bonds in Liquids. <i>Physical Review Letters</i> , 2005, 95, 147402.	2.9	75
12	Probing the hydrogen-bond network of water via time-resolved soft X-ray spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3951.	1.3	71
13	Probing the Electronic Structure of a Photoexcited Solar Cell Dye with Transient X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1695-1700.	2.1	63
14	X-ray-Based Techniques to Study the Nano-Bio Interface. <i>ACS Nano</i> , 2021, 15, 3754-3807.	7.3	60
15	Simulating Ru L ₃ -Edge X-ray Absorption Spectroscopy with Time-Dependent Density Functional Theory: Model Complexes and Electron Localization in Mixed-Valence Metal Dimers. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4444-4454.	1.1	59
16	Ultrafast coherent nuclear motions of hydrogen bonded carboxylic acid dimers. <i>Chemical Physics Letters</i> , 2003, 369, 591-596.	1.2	54
17	Z-polarized confocal microscopy. <i>Journal of Biomedical Optics</i> , 2001, 6, 480.	1.4	51
18	Time-Resolved X-ray Spectroscopy in the Water Window: Elucidating Transient Valence Charge Distributions in an Aqueous Fe(II) Complex. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 465-470.	2.1	50

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19	Ligand-field symmetry effects in Fe(II) polypyridyl compounds probed by transient X-ray absorption spectroscopy. <i>Faraday Discussions</i> , 2012, 157, 463.	1.6	49
20	Real-Time Manifestation of Strongly Coupled Spin and Charge Order Parameters in Stripe-Ordered Crystals Using Time-Resolved Resonant X-Ray Diffraction. <i>Physical Review Letters</i> , 2013, 110, 127404.	2.9	48
21	Time-resolved soft X-ray absorption spectroscopy in transmission mode on liquids at MHz repetition rates. <i>Structural Dynamics</i> , 2017, 4, 054902.	0.9	47
22	Ultrafast conversions between hydrogen bonded structures in liquid water observed by femtosecond x-ray spectroscopy. <i>Journal of Chemical Physics</i> , 2009, 131, 234505.	1.2	46
23	Ultrafast vibrational dynamics and anharmonic couplings of hydrogen-bonded dimers in solution. <i>Chemical Physics</i> , 2007, 341, 175-188.	0.9	41
24	Ultrafast relaxation and anharmonic coupling of O-H stretching and bending excitations in cyclic acetic acid dimers. <i>Chemical Physics Letters</i> , 2003, 382, 19-25.	1.2	40
25	Vibrational Multilevel Quantum Coherence due to Anharmonic Couplings in Intermolecular Hydrogen Bonds. <i>Physical Review Letters</i> , 2003, 91, 197401.	2.9	40
26	Tracking reaction dynamics in solution by pump-probe X-ray absorption spectroscopy and X-ray liquidography (solution scattering). <i>Chemical Communications</i> , 2016, 52, 3734-3749.	2.2	35
27	Z-polarized confocal microscopy. <i>Journal of Biomedical Optics</i> , 2001, 6, 273.	1.4	32
28	Creating $\lambda/3$ focal holes with a Mach-Zehnder interferometer. <i>Applied Physics B: Lasers and Optics</i> , 2003, 77, 11-17.	1.1	30
29	Sub-nanosecond time-resolved ambient-pressure X-ray photoelectron spectroscopy setup for pulsed and constant wave X-ray light sources. <i>Review of Scientific Instruments</i> , 2014, 85, 093102.	0.6	30
30	Element-Specific Characterization of Transient Electronic Structure of Solvated Fe(II) Complexes with Time-Resolved Soft X-ray Absorption Spectroscopy. <i>Accounts of Chemical Research</i> , 2015, 48, 2957-2966.	7.6	30
31	UV-Photochemistry of the Disulfide Bond: Evolution of Early Photoproducts from Picosecond X-ray Absorption Spectroscopy at the Sulfur K-Edge. <i>Journal of the American Chemical Society</i> , 2018, 140, 6554-6561.	6.6	30
32	Transient metal-centered states mediate isomerization of a photochromic ruthenium-sulfoxide complex. <i>Nature Communications</i> , 2018, 9, 1989.	5.8	29
33	Using Ultrafast X-ray Spectroscopy To Address Questions in Ligand-Field Theory: The Excited State Spin and Structure of $[\text{Fe}(\text{dcp})_2]^{2+}$. <i>Inorganic Chemistry</i> , 2019, 58, 9341-9350.	1.9	29
34	Structural Kinetics of MsbA Investigated by Stopped-Flow Time-Resolved Small-Angle X-Ray Scattering. <i>Structure</i> , 2020, 28, 348-354.e3.	1.6	28
35	Light-Induced Radical Formation and Isomerization of an Aromatic Thiol in Solution Followed by Time-Resolved X-ray Absorption Spectroscopy at the Sulfur K-Edge. <i>Journal of the American Chemical Society</i> , 2017, 139, 4797-4804.	6.6	26
36	Coherent vibrational dynamics of intermolecular hydrogen bonds in acetic acid dimers studied by ultrafast mid-infrared spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S129-S136.	0.7	25

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37	Soft X-ray Spectroscopy of the Amine Group: Hydrogen Bond Motifs in Alkylamine/Alkylammonium Acid-Base Pairs. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7737-7746.	1.2	22
38	Principles of femtosecond X-ray/optical cross-correlation with X-ray induced transient optical reflectivity in solids. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	20
39	Electronic and Molecular Structure of the Transient Radical Photocatalyst Mn(CO) ₅ and Its Parent Compound Mn ₂ (CO) ₁₀ . <i>Inorganic Chemistry</i> , 2016, 55, 5895-5903.	1.9	19
40	Ultrafast electron and energy transfer in dye-sensitized iron oxide and oxyhydroxide nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17303.	1.3	16
41	Following Metal-to-Ligand Charge-Transfer Dynamics with Ligand and Spin Specificity Using Femtosecond Resonant Inelastic X-ray Scattering at the Nitrogen K-Edge. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6676-6683.	2.1	12
42	Atomic resolution mapping of the excited-state electronic structure of Cu^{2+} time-resolved x-ray absorption spectroscopy. <i>Physical Review B</i> , 2009, 80, .	1.1	10
43	Probing reaction dynamics of transition-metal complexes in solution via time-resolved X-ray spectroscopy. <i>Journal of Physics: Conference Series</i> , 2009, 148, 012043.	0.3	10
44	Conformation-specific detection of calmodulin binding using the unnatural amino acid p-azido-phenylalanine (AzF) as an IR-sensor. <i>Structural Dynamics</i> , 2018, 5, 064701.	0.9	10
45	Decomposing electronic and lattice contributions in optical pump X-ray probe transient inner-shell absorption spectroscopy of CuO. <i>Faraday Discussions</i> , 2019, 216, 414-433.	1.6	8
46	Breaking the Symmetry of Pyrimidine: Solvent Effects and Core-Excited State Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8637-8643.	2.1	8
47	Shot noise limited soft x-ray absorption spectroscopy in solution at a SASE-FEL using a transmission grating beam splitter. <i>Structural Dynamics</i> , 2021, 8, 014303.	0.9	7
48	Sensitivity of core-level spectroscopy to electrostatic environments of nitrile groups: An <i>ab initio</i> study. <i>Structural Dynamics</i> , 2017, 4, 054102.	0.9	6
49	Femtosecond Charge Density Modulations in Photoexcited CuWO ₄ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 7329-7336.	1.5	6
50	Intraband dynamics of mid-infrared HgTe quantum dots. <i>Nanoscale</i> , 2022, 14, 4123-4130.	2.8	6
51	Electronic Structure Changes of an Aromatic Amine Photoacid along the Förster Cycle. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	6
52	Crystal structure of a domain-swapped photoactivatable sfGFP variant provides evidence for GFP folding pathway. <i>FEBS Journal</i> , 2019, 286, 2329-2340.	2.2	5
53	If You Can Get a Crystal Structure, Why Bother with Anything Else?. <i>Synchrotron Radiation News</i> , 2015, 28, 10-14.	0.2	4
54	Synthesis and characterisation of \pm -carboxynitrobenzyl photocaged-aspartates for applications in time-resolved structural biology. <i>RSC Advances</i> , 2019, 9, 8695-8699.	1.7	4

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55	Femtosecond x-ray absorption spectroscopy of pyrazine at the nitrogen K-edge: on the validity of the Lorentzian limit. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 244003.	0.6	4
56	Carrier Injection Observed by Interface-Enhanced Raman Scattering from Topological Insulators on Gold Substrates. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 32625-32633.	4.0	4
57	Ligand-Field Effects in a Ruthenium(II) Polypyridyl Complex Probed by Femtosecond X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12165-12172.	2.1	3
58	R-Group stabilization in methylated formamides observed by resonant inelastic X-ray scattering. <i>Chemical Communications</i> , 2022, 58, 8834-8837.	2.2	2
59	Ultrafast vibrational dynamics of hydrogen-bonded dimers in solution. , 2004, , 157-164.		1
60	Nanoscale Confinement of Photo-Injected Electrons at Hybrid Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11951-11959.	2.1	1
61	Elucidating Charge Delocalization in the High-Spin State of aqueous FeII Spin-Crossover Compounds via Time-Resolved Spectroscopy in the X-ray Water Window. <i>EPJ Web of Conferences</i> , 2013, 41, 05037.	0.1	0
62	Graphite-like dynamical behaviour of graphite oxide. <i>EPJ Web of Conferences</i> , 2019, 205, 04014.	0.1	0
63	Real-time probing of charge-transfer induced interfacial fields in a dye-semiconductor system using time-resolved XPS. <i>EPJ Web of Conferences</i> , 2019, 205, 05021.	0.1	0
64	UV-photochemistry of the biologically relevant thiol group and the disulfide bond: Evolution of early photoproducts from picosecond X-ray absorption spectroscopy at the sulfur K-Edge. <i>EPJ Web of Conferences</i> , 2019, 205, 09006.	0.1	0
65	Ultrafast Spin-State Conversion in Solvated Transition Metal Complexes Probed with Femtosecond Soft X-ray Spectroscopy. , 2010, , .		0
66	Deciphering Photoacidity by Following Electronic Charge Distribution Changes along the Photoacid Frster Cycle with Time-Resolved Nitrogen K-Edge X-Ray Absorption Spectroscopy. , 2020, , .		0
67	Population Dynamics of Stretching Excitations of p-Azido-phenylalanine Incorporated in Calmodulin- Peptide Complexes. <i>Journal of Physical Chemistry B</i> , 2022, 126, 368-375.	1.2	0
68	Electronic Structure Changes of an Aromatic Amine Photoacid along the Frster Cycle. <i>Angewandte Chemie</i> , 0, , .	1.6	0