

Kristoffer Haldrup

List of Publications by Year in descending order

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60
papers

2,474
citations

172457

29
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197818

49
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63
all docs

63
docs citations

63
times ranked

2488
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-Mediated Ion Pairing: Occurrence and Relevance. <i>Chemical Reviews</i> , 2016, 116, 7626-7641.	47.7	195
2	Femtosecond X-ray Absorption Spectroscopy at a Hard X-ray Free Electron Laser: Application to Spin Crossover Dynamics. <i>Journal of Physical Chemistry A</i> , 2013, 117, 735-740.	2.5	183
3	Visualizing the non-equilibrium dynamics of photoinduced intramolecular electron transfer with femtosecond X-ray pulses. <i>Nature Communications</i> , 2015, 6, 6359.	12.8	134
4	Time-Resolved X-ray Scattering of an Electronically Excited State in Solution. Structure of the $\text{[Pt}^{\text{II}}\text{Cl}_2\text{L}_2\text{]}^{2+}$ State of Tetrakis- $\frac{1}{4}$ -pyrophosphitodiplatinate(II). <i>Journal of the American Chemical Society</i> , 2009, 131, 502-508.	13.7	118
5	Guest-Host Interactions Investigated by Time-Resolved X-ray Spectroscopies and Scattering at MHz Rates: Solvation Dynamics and Photoinduced Spin Transition in Aqueous $\text{Fe}(\text{bipy})^{3+}$. <i>Journal of Physical Chemistry A</i> , 2012, 116, 9878-9887.	2.5	112
6	Finding intersections between electronic excited state potential energy surfaces with simultaneous ultrafast X-ray scattering and spectroscopy. <i>Chemical Science</i> , 2019, 10, 5749-5760.	7.4	90
7	Spin-state studies with XES and RIXS: From static to ultrafast. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 188, 166-171.	1.7	87
8	Femtosecond X-Ray Scattering Study of Ultrafast Photoinduced Structural Dynamics in Solvated $\text{[Co}^{\text{II}}\text{L}_2\text{]}^{2+}$. <i>Journal of Physical Chemistry A</i> , 2012, 116, 9878-9887.	7.8	86
9	Observing Solvation Dynamics with Simultaneous Femtosecond X-ray Emission Spectroscopy and X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1158-1168.	2.6	85
10	Ultrafast Excited State Relaxation of a Metalloporphyrin Revealed by Femtosecond X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 8752-8764.	13.7	77
11	Vibrational wavepacket dynamics in Fe carbene photosensitizer determined with femtosecond X-ray emission and scattering. <i>Nature Communications</i> , 2020, 11, 634.	12.8	75
12	Atomistic characterization of the active-site solvation dynamics of a model photocatalyst. <i>Nature Communications</i> , 2016, 7, 13678.	12.8	74
13	Detailed Characterization of a Nanosecond-Lived Excited State: X-ray and Theoretical Investigation of the Quintet State in Photoexcited $[\text{Fe}(\text{terpy})_2]^{2+}$. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5888-5902.	3.1	72
14	<i>McXtrace</i> : a Monte Carlo software package for simulating X-ray optics, beamlines and experiments. <i>Journal of Applied Crystallography</i> , 2013, 46, 679-696.	4.5	68
15	Ultrafast X-Ray Scattering Measurements of Coherent Structural Dynamics on the Ground-State Potential Energy Surface of a Diplatinum Molecule. <i>Physical Review Letters</i> , 2019, 122, 063001.	7.8	64
16	Introducing a standard method for experimental determination of the solvent response in laser pump, X-ray probe time-resolved wide-angle X-ray scattering experiments on systems in solution. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15003-15016.	2.8	62
17	Electron Injection from Copper Diimine Sensitizers into TiO_2 : Structural Effects and Their Implications for Solar Energy Conversion Devices. <i>Journal of the American Chemical Society</i> , 2015, 137, 9670-9684.	13.7	60
18	Picosecond time-resolved laser pump/X-ray probe experiments using a gated single-photon-counting area detector. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 387-390.	2.4	58

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19	Analysis of time-resolved X-ray scattering data from solution-state systems. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, 261-269.	0.3	53
20	Bond Shortening (1.4 Å...) in the Singlet and Triplet Excited States of $[\text{Ir}(\text{dimen})_2]^{2+}$ in Solution Determined by Time-Resolved X-ray Scattering. <i>Inorganic Chemistry</i> , 2011, 50, 9329-9336.	4.0	53
21	Solvent control of charge transfer excited state relaxation pathways in $[\text{Fe}(\text{2,2}^{\prime}\text{-bipyridine})(\text{CN})_4]^{2+}$. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4238-4249.	2.8	52
22	Toward Highlighting the Ultrafast Electron Transfer Dynamics at the Optically Dark Sites of Photocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1972-1976.	4.6	49
23	Tracking the picosecond deactivation dynamics of a photoexcited iron carbene complex by time-resolved X-ray scattering. <i>Chemical Science</i> , 2018, 9, 405-414.	7.4	49
24	Structural Tracking of a Bimolecular Reaction in Solution by Time-Resolved X-Ray Scattering. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4180-4184.	13.8	43
25	Hot Branching Dynamics in a Light-Harvesting Iron Carbene Complex Revealed by Ultrafast X-Ray Emission Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 364-372.	13.8	41
26	On the calculation of x-ray scattering signals from pairwise radial distribution functions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 244010.	1.5	34
27	Butterfly Deformation Modes in a Photoexcited Pyrazolate-Bridged Pt Complex Measured by Time-Resolved X-Ray Scattering in Solution. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7475-7483.	2.5	34
28	Anisotropy enhanced X-ray scattering from solvated transition metal complexes. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 306-315.	2.4	33
29	Pump-Flow-Probe X-ray Absorption Spectroscopy as a Tool for Studying Intermediate States of Photocatalytic Systems. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17367-17375.	3.1	31
30	A General Methodology for Full-Field Plastic Strain Measurements Using X-ray Absorption Tomography and Internal Markers. <i>Experimental Mechanics</i> , 2008, 48, 199-211.	2.0	24
31	Taking a snapshot of the triplet excited state of an OLED organometallic luminophore using X-rays. <i>Nature Communications</i> , 2020, 11, 2131.	12.8	24
32	Disentangling detector data in XFEL studies of temporally resolved solution state chemistry. <i>Faraday Discussions</i> , 2015, 177, 443-465.	3.2	22
33	Observing the Structural Evolution in the Photodissociation of Diiodomethane with Femtosecond Solution X-Ray Scattering. <i>Physical Review Letters</i> , 2020, 125, 226001.	7.8	20
34	A strong steric hindrance effect on ground state, excited state, and charge separated state properties of a Cu^{I} -diimine complex captured by X-ray transient absorption spectroscopy. <i>Dalton Transactions</i> , 2014, 43, 17615-17623.	3.3	19
35	Structure of a short-lived excited state trinuclear $\text{Ag}^{\text{I}}\text{Pt}^{\text{II}}\text{Pt}^{\text{II}}$ complex in aqueous solution by time resolved X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6921.	2.8	18
36	Singular value decomposition as a tool for background corrections in time-resolved XFEL scattering data. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130336.	4.0	15

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37	Excited state charge distribution and bond expansion of ferrous complexes observed with femtosecond valence-to-core x-ray emission spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 152, 074203.	3.0	15
38	Theoretical study of the triplet excited state of PtPOP and the exciplexes M-PtPOP (M=Ti, Ag) in solution and comparison with ultrafast X-ray scattering results. <i>Chemical Physics</i> , 2012, 393, 117-122.	1.9	14
39	Hot Branching Dynamics in a Light-Harvesting Iron Carbene Complex Revealed by Ultrafast X-ray Emission Spectroscopy. <i>Angewandte Chemie</i> , 2020, 132, 372-380.	2.0	14
40	Ultrafast dynamics of two copper bis-phenanthroline complexes measured by x-ray transient absorption spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 154006.	1.5	12
41	Resolving Femtosecond Solvent Reorganization Dynamics in an Iron Complex by Nonadiabatic Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2022, 144, 12861-12873.	13.7	11
42	Imaging ultrafast excited state pathways in transition metal complexes by X-ray transient absorption and scattering using X-ray free electron laser source. <i>Faraday Discussions</i> , 2016, 194, 639-658.	3.2	10
43	Ultrafast structural dynamics of photo-reactions observed by time-resolved x-ray cross-correlation analysis. <i>Structural Dynamics</i> , 2019, 6, 024301.	2.3	10
44	Inhomogeneous plastic flow investigated by X-ray absorption microtomography of an aluminium alloy containing marker particles. <i>Journal of Microscopy</i> , 2006, 222, 28-35.	1.8	9
45	Experimental determination of strain partitioning among individual grains in the bulk of an aluminium multicrystal. <i>Materials Characterization</i> , 2008, 59, 842-851.	4.4	8
46	Shedding Light on the Nature of Photoinduced States Formed in a Hydrogen-Generating Supramolecular RuPt Photocatalyst by Ultrafast Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6396-6406.	2.5	8
47	Effects of constraints on lattice re-orientation and strain in polycrystal plasticity simulations. <i>Computational Materials Science</i> , 2009, 44, 1198-1207.	3.0	7
48	Simulation tools for scattering corrections in spectrally resolved x-ray computed tomography using McXtrace. <i>Optical Engineering</i> , 2018, 57, 1.	1.0	7
49	Plastic strain measurements: from 2D to 3D. <i>Materials Science and Technology</i> , 2005, 21, 1428-1431.	1.6	5
50	Windowless microfluidic platform based on capillary burst valves for high intensity x-ray measurements. <i>Review of Scientific Instruments</i> , 2009, 80, 115114.	1.3	5
51	X-ray free-electron laser based dark-field X-ray microscopy: a simulation-based study. <i>Journal of Applied Crystallography</i> , 2022, 55, 112-121.	4.5	5
52	3-dimensional strain fields from tomographic measurements. , 2006, , .		4
53	Measuring and Understanding Ultrafast Phenomena Using X-Rays. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2014, , 91-113.	0.5	3
54	X-ray tracking of structural changes during a subnanosecond solid-solid phase transition in cobalt nanoparticles. <i>Physical Review B</i> , 2019, 100, .	3.2	2

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55	A Monte Carlo simulation of scattering reduction in spectral x-ray computed tomography. , 2017, , .		2
56	Measurement of the components of plastic displacement gradients in three dimensions. , 2004, , .		1
57	Element-specific investigations of ultrafast dynamics in photoexcited Cu ₂ ZnSnS ₄ nanoparticles in solution. Structural Dynamics, 2021, 8, 024501.	2.3	1
58	Novel applications of the x-ray tracing software package McXtrace. Proceedings of SPIE, 2014, , .	0.8	0
59	Shedding Light on the Nature of Excited States in a Hydrogen Generating Supramolecular RuPt Catalyst by Ultrafast X-Ray Spectroscopy. , 0, , .		0
60	Shedding Light on the Nature of Excited States in a Hydrogen Generating Supramolecular RuPt Catalyst by Ultrafast X-Ray Spectroscopy. , 0, , .		0