

Tobias C B Harlang

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

3,129
citations

331670

21
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642732

23
g-index

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23
docs citations

23
times ranked

4413
citing authors

#	ARTICLE	IF	CITATIONS
1	Organometal Halide Perovskite Solar Cell Materials Rationalized: Ultrafast Charge Generation, High and Microsecond-Long Balanced Mobilities, and Slow Recombination. <i>Journal of the American Chemical Society</i> , 2014, 136, 5189-5192.	13.7	1,106
2	A low-spin Fe(III) complex with 100-ps ligand-to-metal charge transfer photoluminescence. <i>Nature</i> , 2017, 543, 695-699.	27.8	287
3	Towards longer-lived metal-to-ligand charge transfer states of iron(II) complexes: an N-heterocyclic carbene approach. <i>Chemical Communications</i> , 2013, 49, 6412.	4.1	217
4	Iron sensitizer converts light to electrons with 92% yield. <i>Nature Chemistry</i> , 2015, 7, 883-889.	13.6	193
5	Fe ^{II} Hexa N-Heterocyclic Carbene Complex with a 528 ps Metal-to-Ligand Charge-Transfer Excited-State Lifetime. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 459-463.	4.6	151
6	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
7	A Heteroleptic Ferrous Complex with Mesoionic Bis(1,2,3-triazol-5-ylidene) Ligands: Taming the MLCT Excited State of Iron(II). <i>Chemistry - A European Journal</i> , 2015, 21, 3628-3639.	3.3	132
8	Manipulating charge transfer excited state relaxation and spin crossover in iron coordination complexes with ligand substitution. <i>Chemical Science</i> , 2017, 8, 515-523.	7.4	102
9	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
10	Femtosecond X-Ray Scattering Study of Ultrafast Photoinduced Structural Dynamics in Solvated $[Co(CN)_4]^{2-}$. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1158-1168.	7.8	86
11	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
12	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
13	Atomistic characterization of the active-site solvation dynamics of a model photocatalyst. <i>Nature Communications</i> , 2016, 7, 13678.	12.8	74
14	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
15	Bond Shortening (1.4 Å...) in the Singlet and Triplet Excited States of $[Ir_2(dimen)_4]^{2+}$ in Solution Determined by Time-Resolved X-ray Scattering. <i>Inorganic Chemistry</i> , 2011, 50, 9329-9336.	4.0	53
16	Solvent control of charge transfer excited state relaxation pathways in $[Fe(2,2\text{-bipyridine})(CN)_4]^{2+}$. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4238-4249.	2.8	52
17	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
18	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

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19	Ligand manipulation of charge transfer excited state relaxation and spin crossover in $[\text{Fe}(\text{2,2}'\text{-bipyridine})_2(\text{CN})_2]$. <i>Structural Dynamics</i> , 2017, 4, 044030.	2.3	41
20	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
21	Anisotropy enhanced X-ray scattering from solvated transition metal complexes. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 306-315.	2.4	33
22	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
23	Inside Back Cover: A Heteroleptic Ferrous Complex with Mesoionic Bis(1,2,3-triazol-5-ylidene) Ligands: Taming the MLCT Excited State of Iron(II) (<i>Chem. Eur. J.</i> 9/2015). <i>Chemistry - A European Journal</i> , 2015, 21, 3831-3831.	3.3	1