Kenneth WÃ¤rnmark

List of Publications by Year
in descending order

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66 papers	3,398 citations	136950 32 h-index	138484 58 g-index
70 all docs	70 docs citations	70 times ranked	2743 citing authors

#	ARTICLE	IF	CITATIONS
1	A low-spin Fe(iii) complex with 100-ps ligand-to-metal charge transfer photoluminescence. Nature, 2017, 543, 695-699.	27.8	287
2	Luminescence and reactivity of a charge-transfer excited iron complex with nanosecond lifetime. Science, 2019, 363, 249-253.	12.6	249
3	Towards longer-lived metal-to-ligand charge transfer states of iron(ii) complexes: an N-heterocyclic carbene approach. Chemical Communications, 2013, 49, 6412.	4.1	217
4	Fe <i>N</i>-Heterocyclic Carbene Complexes as Promising Photosensitizers. Accounts of Chemical Research, 2016, 49, 1477-1485.	15.6	197
5	Iron sensitizer converts light to electrons with 92% yield. Nature Chemistry, 2015, 7, 883-889.	13.6	193
6	Fe^{II} Hexa <i>N</i>-Heterocyclic Carbene Complex with a 528 ps Metal-to-Ligand Charge-Transfer Excited-State Lifetime. Journal of Physical Chemistry Letters, 2018, 9, 459-463.	4.6	151
7	Visualizing the non-equilibrium dynamics of photoinduced intramolecular electron transfer with femtosecond X-ray pulses. Nature Communications, 2015, 6, 6359.	12.8	134
8	A Heteroleptic Ferrous Complex with Mesoionic Bis(1,2,3â€triazolâ€5â€ylidene) Ligands: Taming the MLCT Excited State of Iron(II). Chemistry - A European Journal, 2015, 21, 3628-3639.	3.3	132
9	The 125th Anniversary of the TrÃ¶ger's Base Molecule: Synthesis and Applications of TrÃ¶ger's Base Analogues. European Journal of Organic Chemistry, 2012, 2012, 7015-7041.	2.4	130
10	Exceptional Excited-State Lifetime of an Iron(II)â€"<i>N</i>-Heterocyclic Carbene Complex Explained. Journal of Physical Chemistry Letters, 2014, 5, 2066-2071.	4.6	125
11	Manipulating charge transfer excited state relaxation and spin crossover in iron coordination complexes with ligand substitution. Chemical Science, 2017, 8, 515-523.	7.4	102
12	Influence of Quantum Interference on the Thermoelectric Properties of Molecular Junctions. Nano Letters, 2018, 18, 5666-5672.	9.1	93
13	Finding intersections between electronic excited state potential energy surfaces with simultaneous ultrafast X-ray scattering and spectroscopy. Chemical Science, 2019, 10, 5749-5760.	7.4	90
14	Femtosecond X-Ray Scattering Study of Ultrafast Photoinduced Structural Dynamics in Solvated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">[</mml:mo><mml:mi>Co</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mtext) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 212 Td (mathvariant="bold">terpy</mml:mtext><mml:	7.8	86
15	Vibrational wavepacket dynamics in Fe carbene photosensitizer determined with femtosecond X-ray emission and scattering. Nature Communications, 2020, 11, 634.	12.8	75
16	An Approach to Helical Tubular Self-Aggregation Using C2-Symmetric Self-Complementary Hydrogen-Bonding Cavity Molecules. Journal of the American Chemical Society, 2006, 128, 8272-8285.	13.7	60
17	Synthesis of Dihalo-Substituted Analogues of TrÃ¶gerâ€™s Base from ortho- and meta-Substituted Anilines. European Journal of Organic Chemistry, 2003, 2003, 3179-3188.	2.4	57
18	A bis(crown-ether) analogue of TrÃ¶ger's base: Recognition of achiral and chiral primary bisammonium salts. Tetrahedron Letters, 1998, 39, 4565-4568.	1.4	54

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19	Solvent control of charge transfer excited state relaxation pathways in [Fe(2,2â€²-bipyridine)(CN)₄]^{2âˆ’}. Physical Chemistry Chemical Physics, 2018, 20, 4238-4249.	2.8	52
20	Photophysics and Photochemistry of Iron Carbene Complexes for Solar Energy Conversion and Photocatalysis. Catalysts, 2020, 10, 315.	3.5	52
21	Microsecond Photoluminescence and Photoreactivity of a Metal-Centered Excited State in a Hexacarbeneâ€“Co(III) Complex. Journal of the American Chemical Society, 2021, 143, 1307-1312.	13.7	50
22	Toward Highlighting the Ultrafast Electron Transfer Dynamics at the Optically Dark Sites of Photocatalysts. Journal of Physical Chemistry Letters, 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. Chemical Science, 2018, 9, 405-414.	7.4	49
24	Probing the Anisotropic Distortion of Photoexcited Spin Crossover Complexes with Picosecond X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 4536-4545.	3.1	44
25	Photofunctionality of iron(III) N-heterocyclic carbenes and related d transition metal complexes. Coordination Chemistry Reviews, 2021, 426, 213517.	18.8	44
26	Ligand manipulation of charge transfer excited state relaxation and spin crossover in [Fe(2,2â€²-bipyridine)2(CN)2]. Structural Dynamics, 2017, 4, 044030.	2.3	41
27	Hot Branching Dynamics in a Lightâ€Harvesting Iron Carbene Complex Revealed by Ultrafast Xâ€ray Emission Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 364-372.	13.8	41
28	Introduction of Aromatic and Heteroaromatic Groups in the 2- and 8-Positions of the TrÃ¶gerâ€™s Base Core by Suzuki, Stille and Negishi Cross-Coupling Reactions - A Comparative Study. European Journal of Organic Chemistry, 2005, 2005, 3510-3517.	2.4	38
29	Design and Synthesis of Photoactive Iron N-Heterocyclic Carbene Complexes. Catalysts, 2020, 10, 132.	3.5	38
30	Influence of scale, stoichiometry and temperature on the synthesis of 2,8â€dihalo analogues of trÃ¶ger's base from the corresponding anilines and paraformaldehyde. Journal of Heterocyclic Chemistry, 2003, 40, 373-375.	2.6	37
31	Molecular and Interfacial Calculations of Iron(II) Light Harvesters. ChemSusChem, 2016, 9, 667-675.	6.8	36
32	Tracing the Full Bimolecular Photocycle of Iron(III)â€“Carbene Light Harvesters in Electron-Donating Solvents. Journal of the American Chemical Society, 2020, 142, 8565-8569.	13.7	34
33	Stimuli-controlled self-assembly of diverse tubular aggregates from one single small monomer. Nature Communications, 2017, 8, 14943.	12.8	28
34	Topology Selection and Tautoleptic Aggregation: Formation of an Enantiomerically Pure Supramolecular Belt over a Helix. Angewandte Chemie - International Edition, 2011, 50, 2071-2074.	13.8	25
35	An Enantiopure Hydrogenâ€Bonded Octameric Tube: Selfâ€Sorting and Guestâ€Induced Rearrangement. Angewandte Chemie - International Edition, 2016, 55, 208-212.	13.8	24
36	On the Characterization of Dynamic Supramolecular Systems: A General Mathematical Association Model for Linear Supramolecular Copolymers and Application on a Complex Twoâ€Component Hydrogenâ€Bonding System. Chemistry - A European Journal, 2007, 13, 9617-9636.	3.3	22

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37	A Stable Homoleptic Organometallic Iron(IV) Complex. Chemistry - A European Journal, 2020, 26, 12728-12732.	3.3	21
38	Asymmetric Ring-Opening of Epoxides Catalyzed by Metalâ€"Salen Complexes. Catalysts, 2020, 10, 705.	3.5	19
39	A Remarkably Complex Supramolecular Hydrogen-Bonded Decameric Capsule Formed from an Enantiopure <i>C</i>₂-Symmetric Monomer by Solvent-Responsive Aggregation. Journal of the American Chemical Society, 2015, 137, 10536-10546.	13.7	17
40	Dye-sensitized solar cells based on Fe N-heterocyclic carbene photosensitizers with improved rod-like push-pull functionality. Chemical Science, 2021, 12, 16035-16053.	7.4	17
41	Electronic structure and excited state properties of iron carbene photosensitizers â€" A combined X-ray absorption and quantum chemical investigation. Chemical Physics Letters, 2017, 683, 559-566.	2.6	14
42	Hot Branching Dynamics in a Lightâ€Harvesting Iron Carbene Complex Revealed by Ultrafast Xâ€ray Emission Spectroscopy. Angewandte Chemie, 2020, 132, 372-380.	2.0	14
43	High turnover photocatalytic hydrogen formation with an Fe(<scp>iii</scp>) N-heterocyclic carbene photosensitiser. Chemical Communications, 2022, 58, 5351-5354.	4.1	14
44	Chirality, a never-ending source of confusion. Zeitschrift FÃ¼r Kristallographie, 2009, 224, .	1.1	12
45	Network analysis of bicyclo[3.3.1]nonanes: the diol, the dione and the acetal. CrystEngComm, 2009, 11, 1837.	2.6	12
46	Band-selective dynamics in charge-transfer excited iron carbene complexes. Faraday Discussions, 2019, 216, 191-210.	3.2	12
47	Site-Selective Orbital Interactions in an Ultrathin Iron-Carbene Photosensitizer Film. Journal of Physical Chemistry A, 2020, 124, 1603-1609.	2.5	12
48	Synthetic and crystallographic studies of bicyclo[3.3.1]nonane derivatives: from strong to weak hydrogen bonds and the stereochemistry of network formation. CrystEngComm, 2012, 14, 178-187.	2.6	11
49	Resolution and Determination of the Absolute Configuration of a Twisted Bis-Lactam Analogue of TrÃ¶gerâ€™s Base: A Comparative Spectroscopic and Computational Study. Journal of Organic Chemistry, 2015, 80, 8142-8149.	3.2	11
50	A Tautoleptic Approach to Chiral Hydrogenâ€Bonded Supramolecular Tubular Polymers with Large Cavity. Chemistry - A European Journal, 2018, 24, 14028-14033.	3.3	10
51	Dynamic Supramolecular [(Salen)CrCl] Complexes as Efficient Catalysts for Ring Opening of Epoxides. ChemCatChem, 2010, 2, 629-632.	3.7	8
52	Pseudoâ€<i>C</i>₂â€Symmetric Bimetallic Bissalen Catalysts for Efficient and Enantioselective Ringâ€Opening of <i>meso</i>â€Epoxides. ChemCatChem, 2012, 4, 1321-1329.	3.7	7
53	Mechanoassisted Supramolecular Catalysis in Solid State Synthesis. ChemCatChem, 2010, 2, 1059-1060.	3.7	6
54	HERFD-XANES probes of electronic structures of iron^{II/III} carbene complexes. Physical Chemistry Chemical Physics, 2020, 22, 9067-9073.	2.8	6

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55	Experimental and Computational Models for Side Chain Discrimination in Peptideâ€“Protein Interactions. Chemistry - A European Journal, 2021, 27, 10883-10897.	3.3	6
56	A Protocol for the <i>exo</i>-Mono and <i>exo</i>,<i>exo</i>-Bis Functionalization of the Diazocine Ring of TrÃ¶gerâ€™s Base. Journal of Organic Chemistry, 2015, 80, 12006-12014.	3.2	5
57	Synthesis of Cr(III) Salen Complexes as Supramolecular Catalytic Systems for Ringâ€Opening Reactions of Epoxides. ChemistrySelect, 2016, 1, 1789-1794.	1.5	4
58	A Double Conformationally Restricted Dynamic Supramolecular System for the Substrateâ€Selective Epoxidation of Olefinsâ€"A Comparative Study on the Influence of Preorganization. ChemCatChem, 2015, 7, 333-348.	3.7	3
59	Counterintuitive Electrostatics upon Metal Ion Coordination to a Receptor with Two Homotopic Binding Sites. Journal of the American Chemical Society, 2022, 144, 2921-2932.	13.7	3
60	Inside Back Cover: A Heteroleptic Ferrous Complex with Mesoionic Bis(1,2,3â€triazolâ€5â€ylidene) Ligands: Taming the MLCT Excited State of Iron(II) (Chem. Eur. J. 9/2015). Chemistry - A European Journal, 2015, 21, 3831-3831.	3.3	1
61	Molecular and Interfacial Calculations of Iron(II) Light Harvesters. ChemSusChem, 2016, 9, 652-652.	6.8	1
62	Enantiotopic Discrimination by Coordinationâ€Desymmetrized <i>meso</i>â€Ligands. ChemCatChem, 2020, 12, 1575-1579.	3.7	1
63	Resonant X-ray photo-oxidation of light-harvesting iron (II/III) N-heterocyclic carbene complexes. Scientific Reports, 2021, 11, 22144.	3.3	1
64	The long-awaited synthesis and self-assembly of a small rigid <i>C</i>₃-symmetric trilactam. Chemical Communications, 2022, 58, 3751-3754.	4.1	1
65	Inside Cover: Twisted Amide Analogues of TrÃ¶gerâ€™s Base (Chem. Eur. J. 4/2012). Chemistry - A European Journal, 2012, 18, 1010-1010.	3.3	0
66	Frontispiece: A Tautoleptic Approach to Chiral Hydrogenâ€Bonded Supramolecular Tubular Polymers with Large Cavity. Chemistry - A European Journal, 2018, 24, .	3.3	0