Niels H Damrauer

List of Publications by Year
in descending order

57	3,276	159585 30	144013 57
papers	citations	h-index	g-index

60	60	60	3594
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interrogation of O-ATRP Activation Conducted by Singlet and Triplet Excited States of Phenoxazine Photocatalysts. Journal of Physical Chemistry A, 2021, 125, 3109-3121.	2.5	14
2	Open for Bismuth: Main Group Metal-to-Ligand Charge Transfer. Inorganic Chemistry, 2021, 60, 10137-10146.	4.0	20
3	Designing High-Triplet-Yield Phenothiazine Donorâ€“Acceptor Complexes for Photoredox Catalysis. Journal of Physical Chemistry A, 2020, 124, 817-823.	2.5	29
4	Solvent Effects and Side Reactions in Organocatalyzed Atom Transfer Radical Polymerization for Enabling the Controlled Polymerization of Acrylates Catalyzed by Diaryl Dihydrophenazines. Macromolecules, 2020, 53, 9208-9219.	4.8	24
5	Binding Orientation of a Ruthenium-Based Water Oxidation Catalyst on a CdS QD Surface Revealed by NMR Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 9552-9556.	4.6	7
6	Long-Lived Mixed 2MLCT/MC States in Antiferromagnetically Coupled d3 Vanadium(II) Bipyridine and Phenanthroline Complexes. Inorganic Chemistry, 2020, 59, 14706-14715.	4.0	20
7	Effects of Naphthyl Connectivity on the Photophysics of Compact Organic Charge-Transfer Photoredox Catalysts. Journal of Physical Chemistry A, 2019, 123, 4727-4736.	2.5	41
8	Using Structurally Well-Defined Norbornyl-Bridged Acene Dimers to Map a Mechanistic Landscape for Correlated Triplet Formation in Singlet Fission. Journal of the American Chemical Society, 2019, 141, 5961-5971.	13.7	58
9	Triplet-Fusion Upconversion Using a Rigid Tetracene Homodimer. Journal of Physical Chemistry Letters, 2019, 10, 7463-7469.	4.6	37
10	Structureâ€“Property Relationships for Tailoring Phenoxazines as Reducing Photoredox Catalysts. Journal of the American Chemical Society, 2018, 140, 5088-5101.	13.7	202
11	Modular Synthesis of Rigid Polyacene Dimers for Singlet Fission. Organic Letters, 2018, 20, 457-460.	4.6	28
12	Exploiting Charge-Transfer States for Maximizing Intersystem Crossing Yields in Organic Photoredox Catalysts. Journal of the American Chemical Society, 2018, 140, 4778-4781.	13.7	97
13	Ultrafast Hole Transfer from CdS Quantum Dots to a Water Oxidation Catalyst. Journal of Physical Chemistry C, 2018, 122, 17559-17565.	3.1	21
14	Detection of an Energy-Transfer Pathway in Cr-Photoredox Catalysis. ACS Catalysis, 2018, 8, 9216-9225.	11.2	22
15	A Synthetically Tunable System To Control MLCT Excited-State Lifetimes and Spin States in Iron(II) Polypyridines. Journal of the American Chemical Society, 2017, 139, 4493-4505.	13.7	100
16	Synthesis of Geometrically Well-Defined Covalent Acene Dimers for Mechanistic Exploration of Singlet Fission. Journal of Organic Chemistry, 2017, 82, 4866-4874.	3.2	21
17	Intramolecular Charge Transfer and Ion Pairing in N,N-Diaryl Dihydrophenazine Photoredox Catalysts for Efficient Organocatalyzed Atom Transfer Radical Polymerization. Journal of the American Chemical Society, 2017, 139, 348-355.	13.7	207
18	Frontispiece: Strongly Reducing, Visibleâ€Light Organic Photoredox Catalysts as Sustainable Alternatives to Precious Metals. Chemistry - A European Journal, 2017, 23, .	3.3	1

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19	Solvent-Controlled Branching of Localized versus Delocalized Singlet Exciton States and Equilibration with Charge Transfer in a Structurally Well-Defined Tetracene Dimer. Journal of Physical Chemistry A, 2017, 121, 9229-9242.	2.5	36
20	Strongly Reducing, Visibleâ€Light Organic Photoredox Catalysts as Sustainable Alternatives to Precious Metals. Chemistry - A European Journal, 2017, 23, 10962-10968.	3.3	196
21	Uncovering the Roles of Oxygen in Cr(III) Photoredox Catalysis. Journal of the American Chemical Society, 2016, 138, 5451-5464.	13.7	131
22	Exploiting Conformational Dynamics of Structurally Tuned Aryl-Substituted Terpyridyl Ruthenium(II) Complexes to Inhibit Charge Recombination in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2016, 120, 10815-10829.	3.1	20
23	Ultrafast Time-Resolved Hard X-Ray Emission Spectroscopy on a Tabletop. Physical Review X, 2016, 6, .	8.9	23
24	Solution-Phase Singlet Fission in a Structurally Well-Defined Norbornyl-Bridged Tetracene Dimer. Journal of Physical Chemistry A, 2016, 120, 4473-4481.	2.5	62
25	Polymorphism influences singlet fission rates in tetracene thin films. Chemical Science, 2016, 7, 1185-1191.	7.4	114
26	Highly Strained Iron(II) Polypyridines: Exploiting the Quintet Manifold To Extend the Lifetime of MLCT Excited States. Journal of the American Chemical Society, 2016, 138, 2949-2952.	13.7	76
27	Exploring Non-Condon Effects in a Covalent Tetracene Dimer: How Important Are Vibrations in Determining the Electronic Coupling for Singlet Fission?. Journal of Physical Chemistry A, 2015, 119, 299-311.	2.5	61
28	Symmetry-Directed Control of Electronic Coupling for Singlet Fission in Covalent Bisâ€“Acene Dimers. Journal of Physical Chemistry Letters, 2015, 6, 4456-4462.	4.6	22
29	Computational Studies of Carbodiimide Rings. Journal of Organic Chemistry, 2014, 79, 3781-3788.	3.2	5
30	Synthesis, Electrochemical Characterization, and Photophysical Studies of Structurally Tuned Aryl-Substituted Terpyridyl Ruthenium(II) Complexes. Journal of Physical Chemistry A, 2014, 118, 10649-10662.	2.5	22
31	Experimental and Computational Exploration of Ground and Excited State Properties of Highly Strained Ruthenium Terpyridine Complexes. Journal of Physical Chemistry A, 2013, 117, 6489-6507.	2.5	25
32	Inverse Kinetic Isotope Effect in the Excited-State Relaxation of a Ru(II)â€“Aquo Complex: Revealing the Impact of Hydrogen-Bond Dynamics on Nonradiative Decay. Journal of the American Chemical Society, 2013, 135, 12500-12503.	13.7	28
33	Tunable Electronic Coupling and Driving Force in Structurally Well-Defined Tetracene Dimers for Molecular Singlet Fission: A Computational Exploration Using Density Functional Theory. Journal of Physical Chemistry A, 2013, 117, 10824-10838.	2.5	66
34	Charge Transfer Dynamics between Photoexcited CdS Nanorods and Mononuclear Ru Water-Oxidation Catalysts. Journal of the American Chemical Society, 2013, 135, 3383-3386.	13.7	97
35	Syntheses and Photophysical Investigations of Cr(III) Hexadentate Iminopyridine Complexes and Their Tris(Bidentate) Analogues. Inorganic Chemistry, 2013, 52, 1368-1378.	4.0	27
36	Modeling and correction of distorted two-dimensional Fourier transform spectra from pixelated pulse shaping devices. Optics Express, 2012, 20, 20908.	3.4	0

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37	Dynamics of the 3MLCT in Ru(II) Terpyridyl Complexes Probed by Ultrafast Spectroscopy: Evidence of Excited-State Equilibration and Interligand Electron Transfer. Journal of Physical Chemistry A, 2012, 116, 11536-11547.	2.5	58
38	Computational Exploration of Heterolytic Halogenâ^'Carbon Bond Scission Photoreactions in Ruthenium Polypyridyl Complexes. Journal of Physical Chemistry A, 2011, 115, 3122-3132.	2.5	4
39	Enhanced Triplet Formation in Polycrystalline Tetracene Films by Femtosecond Optical-Pulse Shaping. Physical Review Letters, 2010, 105, 257403.	7.8	90
40	Exploiting Conformational Dynamics To Facilitate Formation and Trapping of Electron-Transfer Photoproducts in Metal Complexes. Journal of the American Chemical Society, 2010, 132, 11464-11466.	13.7	32
41	Synthesis and Solution Phase Characterization of Strongly Photooxidizing Heteroleptic Cr(III) Tris-Dipyridyl Complexes. Inorganic Chemistry, 2010, 49, 7981-7991.	4.0	69
42	Controlling Electron Transfer through the Manipulation of Structure and Ligand-Based Torsional Motions: A Computational Exploration of Ruthenium Donorâ^'Acceptor Systems using Density Functional Theory. Inorganic Chemistry, 2009, 48, 11161-11175.	4.0	35
43	Ligand Structure, Conformational Dynamics, and Excited-State Electron Delocalization for Control of Photoinduced Electron Transfer Rates in Synthetic Donor-Bridge-Acceptor Systems. Inorganic Chemistry, 2008, 47, 4060-4076.	4.0	39
44	Facile collection of two-dimensional electronic spectra using femtosecond pulse-shaping Technology. Optics Express, 2007, 15, 16681.	3.4	132
45	General Method for Reducing Adaptive Laser Pulse-Shaping Experiments to a Single Control Variable. Journal of Physical Chemistry A, 2007, 111, 5126-5129.	2.5	12
46	Elucidation of Control Mechanisms Discovered during Adaptive Manipulation of [Ru(dpb)3](PF6)2 Emission in the Solution Phase. Journal of Physical Chemistry A, 2007, 111, 1426-1433.	2.5	16
47	General Method for the Dimension Reduction of Adaptive Control Experiments. Journal of Physical Chemistry A, 2006, 110, 6391-6394.	2.5	27
48	Electron Transfer Driven by Proton Fluctuations in a Hydrogen-Bonded Donorâ^'Acceptor Assembly. Journal of Physical Chemistry B, 2006, 110, 18853-18858.	2.6	59
49	Observation of Proton-Coupled Electron Transfer by Transient Absorption Spectroscopy in a Hydrogen-Bonded, Porphyrin Donorâ^'Acceptor Assembly. Journal of Physical Chemistry B, 2004, 108, 6315-6321.	2.6	75
50	Ultrafast Dynamics in the Metal-to-Ligand Charge Transfer Excited-State Evolution of [Ru(4,4â€˜-diphenyl-2,2â€˜-bipyridine)3]2+. Journal of Physical Chemistry A, 1999, 103, 8440-8446.	2.5	212
51	Variable-Temperature Emission Studies of Solvation Dynamics:â€‰ Evidence for Coupling of Solvation to Chromophore Structural Dynamics in the Evolution of Charge-Transfer Excited States. Inorganic Chemistry, 1999, 38, 4268-4277.	4.0	36
52	Computational Study of the Proton-Transfer Chemistry of the Silaacetylide Anion. Organometallics, 1998, 17, 3401-3404.	2.3	2
53	Theoretical Studies of Steric Effects on Intraligand Electron Delocalization: Implications for the Temporal Evolution of MLCT Excited States. Journal of Physical Chemistry A, 1998, 102, 3382-3397.	2.5	86
54	A Computational Study of the Proton-Transfer Chemistry of the Silaformyl Anion. Journal of the American Chemical Society, 1998, 120, 2124-2130.	13.7	7

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55	Effects of Intraligand Electron Delocalization, Steric Tuning, and Excited-State Vibronic Coupling on the Photophysics of Aryl-Substituted Bipyridyl Complexes of Ru(II). Journal of the American Chemical Society, 1997, 119, 8253-8268.	13.7	271
56	Reaction chemistry of a tungsten disilene complex: net one atom insertion of chalcogens into Cp2W(.eta.2-Me2Si:SiMe2). Organometallics, 1993, 12, 3698-3704.	2.3	36
57	Experimental and computational studies of four-coordinate aluminum: the reaction of aluminates and acids. Journal of the American Chemical Society, 1993, 115, 5218-5226.	13.7	15