

Niels H Damrauer

List of Publications by Year in descending order

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57
papers

3,276
citations

159585

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144013

57
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60
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60
docs citations

60
times ranked

3594
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Intraligand Electron Delocalization, Steric Tuning, and Excited-State Vibronic Coupling on the Photophysics of Aryl-Substituted Bipyridyl Complexes of Ru(II). <i>Journal of the American Chemical Society</i> , 1997, 119, 8253-8268.	13.7	271
2	Ultrafast Dynamics in the Metal-to-Ligand Charge Transfer Excited-State Evolution of [Ru(4,4'-diphenyl-2,2'-bipyridine) ₃] ²⁺ . <i>Journal of Physical Chemistry A</i> , 1999, 103, 8440-8446.	2.5	212
3	Intramolecular Charge Transfer and Ion Pairing in <i>N,N</i> -Diaryl Dihydrophenazine Photoredox Catalysts for Efficient Organocatalyzed Atom Transfer Radical Polymerization. <i>Journal of the American Chemical Society</i> , 2017, 139, 348-355.	13.7	207
4	Structure-Property Relationships for Tailoring Phenoxazines as Reducing Photoredox Catalysts. <i>Journal of the American Chemical Society</i> , 2018, 140, 5088-5101.	13.7	202
5	Strongly Reducing, Visible-Light Organic Photoredox Catalysts as Sustainable Alternatives to Precious Metals. <i>Chemistry - A European Journal</i> , 2017, 23, 10962-10968.	3.3	196
6	Facile collection of two-dimensional electronic spectra using femtosecond pulse-shaping Technology. <i>Optics Express</i> , 2007, 15, 16681.	3.4	132
7	Uncovering the Roles of Oxygen in Cr(III) Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2016, 138, 5451-5464.	13.7	131
8	Polymorphism influences singlet fission rates in tetracene thin films. <i>Chemical Science</i> , 2016, 7, 1185-1191.	7.4	114
9	A Synthetically Tunable System To Control MLCT Excited-State Lifetimes and Spin States in Iron(II) Polypyridines. <i>Journal of the American Chemical Society</i> , 2017, 139, 4493-4505.	13.7	100
10	Charge Transfer Dynamics between Photoexcited CdS Nanorods and Mononuclear Ru Water-Oxidation Catalysts. <i>Journal of the American Chemical Society</i> , 2013, 135, 3383-3386.	13.7	97
11	Exploiting Charge-Transfer States for Maximizing Intersystem Crossing Yields in Organic Photoredox Catalysts. <i>Journal of the American Chemical Society</i> , 2018, 140, 4778-4781.	13.7	97
12	Enhanced Triplet Formation in Polycrystalline Tetracene Films by Femtosecond Optical-Pulse Shaping. <i>Physical Review Letters</i> , 2010, 105, 257403.	7.8	90
13	Theoretical Studies of Steric Effects on Intraligand Electron Delocalization: Implications for the Temporal Evolution of MLCT Excited States. <i>Journal of Physical Chemistry A</i> , 1998, 102, 3382-3397.	2.5	86
14	Highly Strained Iron(II) Polypyridines: Exploiting the Quintet Manifold To Extend the Lifetime of MLCT Excited States. <i>Journal of the American Chemical Society</i> , 2016, 138, 2949-2952.	13.7	76
15	Observation of Proton-Coupled Electron Transfer by Transient Absorption Spectroscopy in a Hydrogen-Bonded, Porphyrin Donor-Acceptor Assembly. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6315-6321.	2.6	75
16	Synthesis and Solution Phase Characterization of Strongly Photooxidizing Heteroleptic Cr(III) Tris-Dipyridyl Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 7981-7991.	4.0	69
17	Tunable Electronic Coupling and Driving Force in Structurally Well-Defined Tetracene Dimers for Molecular Singlet Fission: A Computational Exploration Using Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10824-10838.	2.5	66
18	Solution-Phase Singlet Fission in a Structurally Well-Defined Norbornyl-Bridged Tetracene Dimer. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4473-4481.	2.5	62

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19	Exploring Non-Condon Effects in a Covalent Tetracene Dimer: How Important Are Vibrations in Determining the Electronic Coupling for Singlet Fission?. <i>Journal of Physical Chemistry A</i> , 2015, 119, 299-311.	2.5	61
20	Electron Transfer Driven by Proton Fluctuations in a Hydrogen-Bonded Donor-Acceptor Assembly. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18853-18858.	2.6	59
21	Dynamics of the 3MLCT in Ru(II) Terpyridyl Complexes Probed by Ultrafast Spectroscopy: Evidence of Excited-State Equilibration and Interligand Electron Transfer. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11536-11547.	2.5	58
22	Using Structurally Well-Defined Norbornyl-Bridged Acene Dimers to Map a Mechanistic Landscape for Correlated Triplet Formation in Singlet Fission. <i>Journal of the American Chemical Society</i> , 2019, 141, 5961-5971.	13.7	58
23	Effects of Naphthyl Connectivity on the Photophysics of Compact Organic Charge-Transfer Photoredox Catalysts. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4727-4736.	2.5	41
24	Ligand Structure, Conformational Dynamics, and Excited-State Electron Delocalization for Control of Photoinduced Electron Transfer Rates in Synthetic Donor-Bridge-Acceptor Systems. <i>Inorganic Chemistry</i> , 2008, 47, 4060-4076.	4.0	39
25	Triplet-Fusion Upconversion Using a Rigid Tetracene Homodimer. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7463-7469.	4.6	37
26	Reaction chemistry of a tungsten disilene complex: net one atom insertion of chalcogens into Cp ₂ W(η ² -Me ₂ Si:SiMe ₂). <i>Organometallics</i> , 1993, 12, 3698-3704.	2.3	36
27	Variable-Temperature Emission Studies of Solvation Dynamics: Evidence for Coupling of Solvation to Chromophore Structural Dynamics in the Evolution of Charge-Transfer Excited States. <i>Inorganic Chemistry</i> , 1999, 38, 4268-4277.	4.0	36
28	Solvent-Controlled Branching of Localized versus Delocalized Singlet Exciton States and Equilibration with Charge Transfer in a Structurally Well-Defined Tetracene Dimer. <i>Journal of Physical Chemistry A</i> , 2017, 121, 9229-9242.	2.5	36
29	Controlling Electron Transfer through the Manipulation of Structure and Ligand-Based Torsional Motions: A Computational Exploration of Ruthenium Donor-Acceptor Systems using Density Functional Theory. <i>Inorganic Chemistry</i> , 2009, 48, 11161-11175.	4.0	35
30	Exploiting Conformational Dynamics To Facilitate Formation and Trapping of Electron-Transfer Photoproducts in Metal Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 11464-11466.	13.7	32
31	Designing High-Triplet-Yield Phenothiazine Donor-Acceptor Complexes for Photoredox Catalysis. <i>Journal of Physical Chemistry A</i> , 2020, 124, 817-823.	2.5	29
32	Inverse Kinetic Isotope Effect in the Excited-State Relaxation of a Ru(II)-Aquo Complex: Revealing the Impact of Hydrogen-Bond Dynamics on Nonradiative Decay. <i>Journal of the American Chemical Society</i> , 2013, 135, 12500-12503.	13.7	28
33	Modular Synthesis of Rigid Polyacene Dimers for Singlet Fission. <i>Organic Letters</i> , 2018, 20, 457-460.	4.6	28
34	General Method for the Dimension Reduction of Adaptive Control Experiments. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6391-6394.	2.5	27
35	Syntheses and Photophysical Investigations of Cr(III) Hexadentate Iminopyridine Complexes and Their Tris(Bidentate) Analogues. <i>Inorganic Chemistry</i> , 2013, 52, 1368-1378.	4.0	27
36	Experimental and Computational Exploration of Ground and Excited State Properties of Highly Strained Ruthenium Terpyridine Complexes. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6489-6507.	2.5	25

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37	Solvent Effects and Side Reactions in Organocatalyzed Atom Transfer Radical Polymerization for Enabling the Controlled Polymerization of Acrylates Catalyzed by Diaryl Dihydrophenazines. <i>Macromolecules</i> , 2020, 53, 9208-9219.	4.8	24
38	Ultrafast Time-Resolved Hard X-Ray Emission Spectroscopy on a Tabletop. <i>Physical Review X</i> , 2016, 6, .	8.9	23
39	Synthesis, Electrochemical Characterization, and Photophysical Studies of Structurally Tuned Aryl-Substituted Terpyridyl Ruthenium(II) Complexes. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10649-10662.	2.5	22
40	Symmetry-Directed Control of Electronic Coupling for Singlet Fission in Covalent Bisacene Dimers. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4456-4462.	4.6	22
41	Detection of an Energy-Transfer Pathway in Cr-Photoredox Catalysis. <i>ACS Catalysis</i> , 2018, 8, 9216-9225.	11.2	22
42	Synthesis of Geometrically Well-Defined Covalent Acene Dimers for Mechanistic Exploration of Singlet Fission. <i>Journal of Organic Chemistry</i> , 2017, 82, 4866-4874.	3.2	21
43	Ultrafast Hole Transfer from CdS Quantum Dots to a Water Oxidation Catalyst. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17559-17565.	3.1	21
44	Exploiting Conformational Dynamics of Structurally Tuned Aryl-Substituted Terpyridyl Ruthenium(II) Complexes to Inhibit Charge Recombination in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10815-10829.	3.1	20
45	Long-Lived Mixed 2MLCT/MC States in Antiferromagnetically Coupled d3 Vanadium(II) Bipyridine and Phenanthroline Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 14706-14715.	4.0	20
46	Open for Bismuth: Main Group Metal-to-Ligand Charge Transfer. <i>Inorganic Chemistry</i> , 2021, 60, 10137-10146.	4.0	20
47	Elucidation of Control Mechanisms Discovered during Adaptive Manipulation of [Ru(dpb)3](PF6)2 Emission in the Solution Phase. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1426-1433.	2.5	16
48	Experimental and computational studies of four-coordinate aluminum: the reaction of aluminates and acids. <i>Journal of the American Chemical Society</i> , 1993, 115, 5218-5226.	13.7	15
49	Interrogation of O-ATRP Activation Conducted by Singlet and Triplet Excited States of Phenoxazine Photocatalysts. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3109-3121.	2.5	14
50	General Method for Reducing Adaptive Laser Pulse-Shaping Experiments to a Single Control Variable. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5126-5129.	2.5	12
51	A Computational Study of the Proton-Transfer Chemistry of the Silaformyl Anion. <i>Journal of the American Chemical Society</i> , 1998, 120, 2124-2130.	13.7	7
52	Binding Orientation of a Ruthenium-Based Water Oxidation Catalyst on a CdS QD Surface Revealed by NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9552-9556.	4.6	7
53	Computational Studies of Carbodiimide Rings. <i>Journal of Organic Chemistry</i> , 2014, 79, 3781-3788.	3.2	5
54	Computational Exploration of Heterolytic Halogen-Carbon Bond Scission Photoreactions in Ruthenium Polypyridyl Complexes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3122-3132.	2.5	4

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55	Computational Study of the Proton-Transfer Chemistry of the Silacetylide Anion. <i>Organometallics</i> , 1998, 17, 3401-3404.	2.3	2
56	Frontispiece: Strongly Reducing, Visible-Light Organic Photoredox Catalysts as Sustainable Alternatives to Precious Metals. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	1
57	Modeling and correction of distorted two-dimensional Fourier transform spectra from pixelated pulse shaping devices. <i>Optics Express</i> , 2012, 20, 20908.	3.4	0