

Jens Niklas

List of Publications by Year in descending order

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89
papers

3,527
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147726

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docs citations

91
times ranked

4994
citing authors

#	ARTICLE	IF	CITATIONS
1	Primary donor triplet states of Photosystem I and II studied by Q-band pulse ENDOR spectroscopy. <i>Photosynthesis Research</i> , 2022, , 1.	1.6	9
2	Structure-Transport Properties Governing the Interplay in Humidity-Dependent Mixed Ionic and Electronic Conduction of Conjugated Polyelectrolytes. <i>ACS Polymers Au</i> , 2022, 2, 275-286.	1.7	4
3	Biohybrid photosynthetic charge accumulation detected by flavin semiquinone formation in ferredoxin-NADP ⁺ reductase. <i>Chemical Science</i> , 2022, 13, 6502-6511.	3.7	2
4	An Active-Site Sulfonate Group Creates a Fast Water Oxidation Electrocatalyst That Exhibits High Activity in Acid. <i>Angewandte Chemie</i> , 2021, 133, 1564-1569.	1.6	4
5	An Active-Site Sulfonate Group Creates a Fast Water Oxidation Electrocatalyst That Exhibits High Activity in Acid. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1540-1545.	7.2	10
6	Insights into the extraction of photogenerated holes from CdSe/CdS nanorods for oxidative organic catalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12690-12699.	5.2	8
7	Correlating conductivity and Seebeck coefficient to doping within crystalline and amorphous domains in poly(3-(methoxyethoxyethoxy)thiophene). <i>Journal of Polymer Science</i> , 2021, 59, 2797-2808.	2.0	11
8	Replacing Pyridine with Pyrazine in Molecular Cobalt Catalysts: Effects on Electrochemical Properties and Aqueous H ₂ Generation. <i>Catalysts</i> , 2021, 11, 75.	1.6	4
9	Complex Relationship between Side-Chain Polarity, Conductivity, and Thermal Stability in Molecularly Doped Conjugated Polymers. <i>Chemistry of Materials</i> , 2021, 33, 741-753.	3.2	36
10	Interprotein electron transfer biohybrid system for photocatalytic H ₂ production. <i>Photosynthesis Research</i> , 2020, 143, 183-192.	1.6	4
11	Polaron and Exciton Delocalization in Oligomers of High-Performance Polymer PTB7. <i>Journal of the American Chemical Society</i> , 2020, 142, 1359-1366.	6.6	5
12	One Electron Multiple Proton Transfer in Model Organic Donor-Acceptor Systems: Implications for High-Frequency EPR. <i>Applied Magnetic Resonance</i> , 2020, 51, 977-991.	0.6	1
13	Light induced electron spin resonance properties of van der Waals CrX ₃ (X = Cl, I) crystals. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	12
14	Surface immobilized copper(II) diimine photosensitizers as molecular probes for elucidating the effects of confinement at interfaces for solar energy conversion. <i>Chemical Communications</i> , 2020, 56, 12130-12133.	2.2	13
15	3-Functionalization of Single-Walled Carbon Nanotubes Creates Localized Spins. <i>ACS Nano</i> , 2020, 14, 17675-17682.	7.3	17
16	Nitrogen-Defective Polymeric Carbon Nitride Nanolayer Enabled Efficient Electrocatalytic Nitrogen Reduction with High Faradaic Efficiency. <i>Nano Letters</i> , 2020, 20, 2879-2885.	4.5	92
17	Spin-Correlated Radical Pairs as Quantum Sensors of Bidirectional ET Mechanisms in Photosystem I. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7536-7544.	1.2	8
18	Semi-artificial Photosynthetic CO ₂ Reduction through Purple Membrane Re-engineering with Semiconductor. <i>Journal of the American Chemical Society</i> , 2019, 141, 11811-11815.	6.6	44

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19	Mechanistic Aspects of a Surface Organovanadium(III) Catalyst for Hydrocarbon Hydrogenation and Dehydrogenation. <i>ACS Catalysis</i> , 2019, 9, 11055-11066.	5.5	17
20	Structure Control of a π -Conjugated Oligothiophene-Based Liquid Crystal for Enhanced Mixed Ion/Electron Transport Characteristics. <i>ACS Nano</i> , 2019, 13, 7665-7675.	7.3	29
21	Reactivity of bio-inspired Cu(II) (N ₂ /Py ₂) complexes with peroxide at room temperature. <i>Journal of Inorganic Biochemistry</i> , 2019, 197, 110674.	1.5	4
22	Photo-accelerated fast charging of lithium-ion batteries. <i>Nature Communications</i> , 2019, 10, 4946.	5.8	68
23	Molecular Cobalt Catalysts for H ₂ Generation with Redox Activity and Proton Relays in the Second Coordination Sphere. <i>Inorganic Chemistry</i> , 2019, 58, 1697-1709.	1.9	44
24	Photoregeneration of Biomimetic Nicotinamide Adenine Dinucleotide Analogues via a Dye-Sensitized Approach. <i>ACS Applied Energy Materials</i> , 2019, 2, 80-91.	2.5	15
25	Electron Paramagnetic Resonance Characterization of the Triheme Cytochrome from <i>Geobacter sulfurreducens</i> . <i>Biochemistry</i> , 2018, 57, 1722-1732.	1.2	6
26	Z-scheme solar water splitting via self-assembly of photosystem I-catalyst hybrids in thylakoid membranes. <i>Chemical Science</i> , 2018, 9, 8504-8512.	3.7	20
27	Nuclearity effects in supported, single-site Fe(μ_2) hydrogenation pre-catalysts. <i>Dalton Transactions</i> , 2018, 47, 10842-10846.	1.6	9
28	Zirconium Modification Promotes Catalytic Activity of a Single-Site Cobalt Heterogeneous Catalyst for Propane Dehydrogenation. <i>ACS Omega</i> , 2018, 3, 11117-11127.	1.6	43
29	Observation of current rectification by the new bimetallic iron(μ_3) hydrophobe [Fe ₃ (L ₄ O ₆)] on Au LB-molecule Au devices. <i>Dalton Transactions</i> , 2018, 47, 14352-14361.	1.6	6
30	Changing the site energy of per-614 in the Peridinin-chlorophyll a-protein does not alter its capability of chlorophyll triplet quenching. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 612-618.	0.5	3
31	Immobilization of an Amphiphilic Molecular Cobalt Catalyst on Carbon Black for Ligand-Assisted Water Oxidation. <i>Inorganic Chemistry</i> , 2018, 57, 9748-9756.	1.9	18
32	Spin Signature of the C ₆₀ Fullerene Anion: A Combined X- and D-Band EPR and DFT Study. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3915-3921.	2.1	8
33	Effects of denticity and ligand rigidity on reactivity of copper complexes with cumyl hydroperoxide. <i>Inorganica Chimica Acta</i> , 2018, 483, 71-78.	1.2	13
34	Charge Transfer Processes in OPV Materials as Revealed by EPR Spectroscopy. <i>Advanced Energy Materials</i> , 2017, 7, 1602226.	10.2	75
35	Intramolecular Hydrogen Bonding Restricts Gd ^{III} -Ligand Dynamics. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5603-5606.	7.2	19
36	Intramolecular Hydrogen Bonding Restricts Gd ^{III} -Ligand Dynamics. <i>Angewandte Chemie</i> , 2017, 129, 5695-5698.	1.6	2

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37	Isolated, well-defined organovanadium(V^{III}) on silica: single-site catalyst for hydrogenation of alkenes and alkynes. <i>Chemical Communications</i> , 2017, 53, 7325-7328.	2.2	26
38	Organic Photovoltaics: Charge Transfer Processes in OPV Materials as Revealed by EPR Spectroscopy (<i>Adv. Energy Mater.</i> 10/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	10.2	0
39	Through-Space Ultrafast Photoinduced Electron Transfer Dynamics of a C_{70} -Encapsulated Bisporphyrin Covalent Organic Polyhedron in a Low-Dielectric Medium. <i>Journal of the American Chemical Society</i> , 2017, 139, 4286-4289.	6.6	58
40	Charge Separation Related to Photocatalytic H_2 Production from a Ru -- Apoflavodoxin -- Ni Biohybrid. <i>ACS Energy Letters</i> , 2017, 2, 230-237.	8.8	20
41	Structural and Functional Characterization of a Short-Chain Flavodoxin Associated with a Noncanonical 1,2-Propanediol Utilization Bacterial Microcompartment. <i>Biochemistry</i> , 2017, 56, 5679-5690.	1.2	4
42	Supported Single-Site Ti(IV) on a Metal -- Organic Framework for the Hydroboration of Carbonyl Compounds. <i>Organometallics</i> , 2017, 36, 3921-3930.	1.1	50
43	Charge Separation and Triplet Exciton Formation Pathways in Small-Molecule Solar Cells as Studied by Time-Resolved EPR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22707-22719.	1.5	19
44	Triplet -- triplet energy transfer in artificial and natural photosynthetic antennas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5513-E5521.	3.3	24
45	Mononuclear nickel (II) and copper (II) coordination complexes supported by bispicen ligand derivatives: Experimental and computational studies. <i>Inorganica Chimica Acta</i> , 2017, 455, 221-230.	1.2	25
46	Optical charge state control of spin defects in 4H-SiC. <i>Nature Communications</i> , 2017, 8, 1876.	5.8	83
47	Artificial Hydrogenases Based on Cobaloximes and Heme Oxygenase. <i>ChemPlusChem</i> , 2016, 81, 1083-1089.	1.3	25
48	Ru -- protein -- Co biohybrids designed for solar hydrogen production: understanding electron transfer pathways related to photocatalytic function. <i>Chemical Science</i> , 2016, 7, 7068-7078.	3.7	32
49	Long Coherence Times in Nuclear Spin-Free Vanadyl Qubits. <i>Journal of the American Chemical Society</i> , 2016, 138, 14678-14685.	6.6	118
50	Evaluation of the coordination preferences and catalytic pathways of heteroaxial cobalt oximes towards hydrogen generation. <i>Chemical Science</i> , 2016, 7, 3264-3278.	3.7	35
51	Aqueous light driven hydrogen production by a Ru -- ferredoxin -- Co biohybrid. <i>Chemical Communications</i> , 2015, 51, 10628-10631.	2.2	45
52	Millisecond Coherence Time in a Tunable Molecular Electronic Spin Qubit. <i>ACS Central Science</i> , 2015, 1, 488-492.	5.3	296
53	Synthesis and Catalytic Hydrogenation Reactivity of a Chromium Catecholate Porous Organic Polymer. <i>Organometallics</i> , 2015, 34, 947-952.	1.1	27
54	Photoinduced Dynamics of Charge Separation: From Photosynthesis to Polymer -- Fullerene Bulk Heterojunctions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7407-7416.	1.2	48

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55	X-ray Crystallographic, Multifrequency Electron Paramagnetic Resonance, and Density Functional Theory Characterization of the Ni(^P Cy) ₂ N ^t Bu ₂ ₂ ⁿ Hydrogen Oxidation Catalyst in the Ni(I) Oxidation State. <i>Inorganic Chemistry</i> , 2015, 54, 6226-6234.	1.9	13
56	In the Bottlebrush Garden: The Structural Aspects of Coordination Polymer Phases formed in Lanthanide Extraction with Alkyl Phosphoric Acids. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11910-11927.	1.2	24
57	Electronic Structure of Fullerene Acceptors in Organic Bulk-Heterojunctions: A Combined EPR and DFT Study. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4730-4735.	2.1	14
58	Ligand Transformations and Efficient Proton/Water Reduction with Cobalt Catalysts Based on Pentadentate Pyridine-Rich Environments. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2105-2110.	7.2	61
59	Selective propane dehydrogenation with single-site Co on SiO ₂ by a non-redox mechanism. <i>Journal of Catalysis</i> , 2015, 322, 24-37.	3.1	168
60	Charge Transfer: Electronic Structure of Fullerene Heterodimer in Bulk-Heterojunction Blends (Adv.) <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 601-606.	16.2	2
61	Electronic Structure of Fullerene Heterodimer in Bulk-Heterojunction Blends. <i>Advanced Energy Materials</i> , 2014, 4, 1301517.	10.2	30
62	Charge Separation in P3HT:SWCNT Blends Studied by EPR: Spin Signature of the Photoinduced Charged State in SWCNT. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 601-606.	2.1	13
63	Multiple Quantum Coherences from Hyperfine Transitions in a Vanadium(IV) Complex. <i>Journal of the American Chemical Society</i> , 2014, 136, 15841-15844.	6.6	81
64	Manganese in Graphite Anode and Capacity Fade in Li Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24335-24348.	1.5	115
65	Discovery of Highly Selective Alkyne Semihydrogenation Catalysts Based on First-Row Transition-Metallated Porous Organic Polymers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12055-12058.	7.2	51
66	Cobaloxime-Based Artificial Hydrogenases. <i>Inorganic Chemistry</i> , 2014, 53, 8071-8082.	1.9	78
67	Protein Delivery of a Ni Catalyst to Photosystem I for Light-Driven Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2013, 135, 13246-13249.	6.6	83
68	Detection of a charge-separated catalyst precursor state in a linked photosensitizer-catalyst assembly. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 21070.	1.3	28
69	Highly-efficient charge separation and polaron delocalization in polymer-fullerene bulk-heterojunctions: a comparative multi-frequency EPR and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9562.	1.3	135
70	Orientation Resolving Dipolar High-Field EPR Spectroscopy on Disordered Solids: II. Structure of Spin-Correlated Radical Pairs in Photosystem I. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11184-11199.	1.2	27
71	Pulse Q-Band EPR and ENDOR Spectroscopies of the Photochemically Generated Monoprotonated Benzosemiquinone Radical in Frozen Alcoholic Solution. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8890-8900.	1.2	9
72	Sodium insertion in carboxylate based materials and their application in 3.6 V full sodium cells. <i>Energy and Environmental Science</i> , 2012, 5, 9632.	15.6	235

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73	Efficient Intrinsic Photoprotection in Strongly Coupled (Bacterio) Chlorophyll Complexes. <i>Biophysical Journal</i> , 2012, 102, 167a.	0.2	0
74	The Hydrogen Catalyst Cobaloxime: A Multifrequency EPR and DFT Study of Cobaloxime's Electronic Structure. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2943-2957.	1.2	48
75	Incorporation of 2,3-Disubstituted-1,4-Naphthoquinones into the A1 Binding Site of Photosystem I Studied by EPR and ENDOR Spectroscopy. <i>Applied Magnetic Resonance</i> , 2010, 37, 65-83.	0.6	17
76	Investigation of the Stationary and Transient A ¹ Radical in Trp ⁺ Phe Mutants of Photosystem I. <i>Applied Magnetic Resonance</i> , 2010, 38, 187-203.	0.6	7
77	EPR, ENDOR, and Special TRIPLE measurements of P ⁺ in wild type and modified reaction centers from <i>Rb. Sphaeroides</i> . <i>Photosynthesis Research</i> , 2009, 99, 1-10.	1.6	13
78	Electronic Structure of the Quinone Radical Anion A ₁ ⁻ of Photosystem I Investigated by Advanced Pulse EPR and ENDOR Techniques. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10367-10379.	1.2	42
79	Spin-Density Distribution of the Carotenoid Triplet State in the Peridinin-Chlorophyll-Protein Antenna. A Q-Band Pulse Electron-Nuclear Double Resonance and Density Functional Theory Study. <i>Journal of the American Chemical Society</i> , 2007, 129, 15442-15443.	6.6	31
80	Ultrafast Transient Absorption Studies on Photosystem I Reaction Centers from <i>Chlamydomonas reinhardtii</i> . 2: Mutations near the P700 Reaction Center Chlorophylls Provide New Insight into the Nature of the Primary Electron Donor. <i>Biophysical Journal</i> , 2006, 90, 552-565.	0.2	146
81	Phylloquinone and Related Radical Anions Studied by Pulse Electron Nuclear Double Resonance Spectroscopy at 34 GHz and Density Functional Theory. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11549-11560.	1.2	34
82	Absolute signs of hyperfine coupling constants as determined by pulse ENDOR of polarized radical pairs. <i>Applied Magnetic Resonance</i> , 2006, 30, 311-327.	0.6	13
83	Charge Recombination Fluorescence in Photosystem I Reaction Centers from <i>Chlamydomonas reinhardtii</i> . <i>Journal of Physical Chemistry B</i> , 2005, 109, 5903-5911.	1.2	66
84	FTIR spectroscopy shows structural similarities between photosystems II from cyanobacteria and spinach. <i>FEBS Journal</i> , 2004, 271, 563-567.	0.2	9
85	Ultrafast Transient Absorption Studies on Photosystem I Reaction Centers from <i>Chlamydomonas reinhardtii</i> . 1. A New Interpretation of the Energy Trapping and Early Electron Transfer Steps in Photosystem I. <i>Biophysical Journal</i> , 2003, 85, 3899-3922.	0.2	180
86	Hydrogen Bonding to P700: Site-Directed Mutagenesis of Threonine A739 of Photosystem I in <i>Chlamydomonas reinhardtii</i> . <i>Biochemistry</i> , 2002, 41, 8557-8569.	1.2	88
87	D ⁺ Band EPR and ENDOR Spectroscopy of ¹⁵ N-Labeled Photosystem I. <i>Applied Magnetic Resonance</i> , 0, , 1.	0.6	1
88	Lithium-Ion Battery Materials as Tunable, Redox Non-Innocent Catalyst Supports. <i>ACS Catalysis</i> , 0, , 7233-7242.	5.5	6
89	Donor-Acceptor Conjugated Copolymers Containing Transition-Metal Complex: Intrachain Magnetic Exchange Interactions and Magneto-Optical Activity. <i>Chemistry of Materials</i> , 0, , .	3.2	2