

# Daniel Klose

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,438  
citations

331670

21  
h-index

345221

36  
g-index

49  
all docs

49  
docs citations

49  
times ranked

2056  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Dependent Hydrogen Generation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 510-514.	13.8	204
2	Capture and characterization of a reactive haem-carbenoid complex in an artificial metalloenzyme. <i>Nature Catalysis</i> , 2018, 1, 578-584.	34.4	93
3	Single-molecule FRET supports the two-state model of Argonaute action. <i>RNA Biology</i> , 2014, 11, 45-56.	3.1	80
4	Protein NMR Spectroscopy at 150-kHz Magic-Angle Spinning Continues To Improve Resolution and Mass Sensitivity. <i>ChemBioChem</i> , 2020, 21, 2540-2548.	2.6	72
5	Simulation vs. Reality: A Comparison of In Silico Distance Predictions with DEER and FRET Measurements. <i>PLoS ONE</i> , 2012, 7, e39492.	2.5	64
6	Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Dependent Hydrogen Generation. <i>Angewandte Chemie</i> , 2017, 129, 525-529.	2.0	54
7	Orthogonal spin labeling using click chemistry for in vitro and in vivo applications. <i>Journal of Magnetic Resonance</i> , 2017, 275, 38-45.	2.1	54
8	Scalable Biosynthesis of Melanin by the Basidiomycete <i>Armillaria cepistipes</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 132-139.	5.2	50
9	RNA-Binding to Archaeal RNA Polymerase Subunits F/E: A DEER and FRET Study. <i>Journal of the American Chemical Society</i> , 2010, 132, 5954-5955.	13.7	49
10	Highly Efficient UV Protection of the Biomaterial Wood by A Transparent TiO <sub>2</sub> /Ce Xerogel. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 39040-39047.	8.0	48
11	Potential-Induced Spin Changes in Fe/N/C Electrocatalysts Assessed by In Situ X-ray Emission Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11707-11712.	13.8	36
12	Light-Induced H <sub>2</sub> Evolution with a Macrocyclic Cobalt Diketo-Pyrphyrin as a Proton-Reducing Catalyst. <i>Inorganic Chemistry</i> , 2018, 57, 1651-1655.	4.0	35
13	UWB DEER and RIDME distance measurements in Cu(II)-Cu(II) spin pairs. <i>Journal of Magnetic Resonance</i> , 2019, 308, 106560.	2.1	34
14	Spatiotemporal Resolution of Conformational Changes in Biomolecules by Combining Pulsed Electron Double Resonance Spectroscopy with Microsecond Freeze-Hyperquenching. <i>Journal of the American Chemical Society</i> , 2021, 143, 6981-6989.	13.7	33
15	Identification of Kinetic and Spectroscopic Signatures of Copper Sites for Direct Oxidation of Methane to Methanol. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15944-15953.	13.8	33
16	Spectroscopic Study of Structural Phase Transition and Dynamic Effects in a [(CH <sub>3</sub> ) <sub>2</sub> NH] <sub>2</sub> [Cd(N <sub>3</sub> ) <sub>3</sub> ] Hybrid Perovskite Framework. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11840-11849.	3.1	32
17	Activation of Copper Species on Carbon Nitride for Enhanced Activity in the Arylation of Amines. <i>ACS Catalysis</i> , 2020, 10, 11069-11080.	11.2	29
18	ATP Analogues for Structural Investigations: Case Studies of a DnaB Helicase and an ABC Transporter. <i>Molecules</i> , 2020, 25, 5268.	3.8	27

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19	Orthogonal Tyrosine and Cysteine Site-Directed Spin Labeling for Dipolar Pulse EPR Spectroscopy on Proteins. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4852-4857.	4.6	26
20	Light-induced switching of HAMP domain conformation and dynamics revealed by time-resolved EPR spectroscopy. <i>FEBS Letters</i> , 2014, 588, 3970-3976.	2.8	24
21	Single Crystal Electron Paramagnetic Resonance of Dimethylammonium and Ammonium Hybrid Formate Frameworks: Influence of External Electric Field. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16533-16540.	3.1	24
22	A Robust and Efficient Propane Dehydrogenation Catalyst from Unexpectedly Segregated Pt <sub>2</sub> Mn Nanoparticles. <i>Journal of the American Chemical Society</i> , 2022, 144, 13384-13393.	13.7	24
23	<i>In cell</i> Gd <sup>3+</sup> -based site-directed spin labeling and EPR spectroscopy of eGFP. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13358-13362.	2.8	23
24	Resolving distance variations by single-molecule FRET and EPR spectroscopy using rotamer libraries. <i>Biophysical Journal</i> , 2021, 120, 4842-4858.	0.5	21
25	Pulse EPR and ENDOR Study of Manganese Doped [(CH <sub>3</sub> ) <sub>2</sub> NH] <sub>2</sub> [Zn(HCOO) <sub>3</sub> ] Hybrid Perovskite Framework. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27225-27232.	3.1	20
26	Structural basis and mechanism for metallochaperone-assisted assembly of the Cu <sub>A</sub> center in cytochrome oxidase. <i>Science Advances</i> , 2019, 5, eaaw8478.	10.3	20
27	Triyl Radicals with a Combination of the Orthogonal Functional Groups Ethyne and Carboxyl: Synthesis without a Statistical Step and EPR Characterization. <i>Journal of Organic Chemistry</i> , 2019, 84, 3304-3320.	3.2	20
28	Conformational Dynamics of Sensory Rhodopsin $\rho$ II in Nanolipoprotein and Styrene-Maleic Acid Lipid Particles. <i>Photochemistry and Photobiology</i> , 2019, 95, 1195-1204.	2.5	19
29	Spectroscopic Signature and Structure of the Active Sites in Ziegler-Natta Polymerization Catalysts Revealed by Electron Paramagnetic Resonance. <i>Journal of the American Chemical Society</i> , 2021, 143, 9791-9797.	13.7	19
30	Magnetic excitation and readout of methyl group tunnel coherence. <i>Science Advances</i> , 2020, 6, eaab1517.	10.3	16
31	Signaling and Adaptation Modulate the Dynamics of the Photosensory Complex of <i>Natronomonas pharaonis</i> . <i>PLoS Computational Biology</i> , 2015, 11, e1004561.	3.2	15
32	Low-Coordinated Titanium(III) Alkyl-Molecular and Surface Complexes: Detailed Structure from Advanced EPR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14533-14537.	13.8	15
33	Molecular and supported Ti(III)-alkyls: efficient ethylene polymerization driven by the $\pi$ -character of metal-carbon bonds and back donation from a singly occupied molecular orbital. <i>Chemical Science</i> , 2021, 12, 780-792.	7.4	15
34	Methane-to-Methanol on Mononuclear Copper(II) Sites Supported on Al <sub>2</sub> O <sub>3</sub> : Structure of Active Sites from Electron Paramagnetic Resonance**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16200-16207.	13.8	15
35	Including Protons in Solid-State NMR Resonance Assignment and Secondary Structure Analysis: The Example of RNA Polymerase II Subunits Rpo4/7. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 100.	3.5	14
36	Spectroscopic glimpses of the transition state of ATP hydrolysis trapped in a bacterial DnaB helicase. <i>Nature Communications</i> , 2021, 12, 5293.	12.8	13

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37	Conformational changes of the histidine ATP-binding cassette transporter studied by double electron-electron resonance spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1760-1768.	2.6	12
38	Bis(imidazolium)1,3-diphosphate diide: A Building Block for FeC <sub>2</sub> P <sub>2</sub> Complexes and Clusters. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	11
39	Accessing distributions of exchange and dipolar couplings in stiff molecular rulers with Cu( <sup>ii</sup> ) centres. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21707-21730.	2.8	9
40	Non-uniform HYSORE: Measurement, processing and analysis with Hyscorean. <i>Journal of Magnetic Resonance</i> , 2019, 307, 106576.	2.1	7
41	Bis(imidazolium)1,3-diphosphate diide: A Building Block for FeC <sub>2</sub> P <sub>2</sub> Complexes and Clusters. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	6
42	Two-Dimensional Distance Correlation Maps from Pulsed Triple Electron Resonance (TRIER) on Proteins with Three Paramagnetic Centers. <i>Applied Magnetic Resonance</i> , 2018, 49, 1253-1279.	1.2	5
43	Pulsed EPR Methods to Study Biomolecular Interactions. <i>Chimia</i> , 2019, 73, 268.	0.6	5
44	Potential-Induced Spin Changes in Fe/N/C Electrocatalysts Assessed by In Situ X-ray Emission Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 11813-11818.	2.0	5
45	Formation and decay of radicals during Vacuum-UV irradiation of poly(dimethylsiloxane). <i>Polymer Degradation and Stability</i> , 2017, 144, 497-507.	5.8	3
46	Cu <sup>2+</sup> -Induced self-assembly and amyloid formation of a cyclic <sup>d</sup> , <sup>l</sup> -peptide: structure and function. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6699-6715.	2.8	3
47	Low-Coordinated Titanium(III) Alkyl-Molecular and Surface-Complexes: Detailed Structure from Advanced EPR Spectroscopy. <i>Angewandte Chemie</i> , 2018, 130, 14741-14745.	2.0	2
48	Identification of Kinetic and Spectroscopic Signatures of Copper Sites for Direct Oxidation of Methane to Methanol. <i>Angewandte Chemie</i> , 2021, 133, 16080-16089.	2.0	0