

Christiane R Timmel

List of Publications by Year in descending order

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75
papers

3,966
citations

126907

33
h-index

123424

61
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76
all docs

76
docs citations

76
times ranked

3265
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-Induced Tripletâ€“Triplet Electron Resonance Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 80-85.	4.6	16
2	Orientation-Selective and Frequency-Correlated Light-Induced Pulsed Dipolar Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3819-3826.	4.6	11
3	EPR of Photoexcited Triplet-State Acceptor Porphyrins. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11782-11790.	3.1	13
4	Magnetic sensitivity of cryptochrome 4 from a migratory songbird. <i>Nature</i> , 2021, 594, 535-540.	27.8	171
5	Benchmark Test and Guidelines for DEER/PELDOR Experiments on Nitroxide-Labeled Biomolecules. <i>Journal of the American Chemical Society</i> , 2021, 143, 17875-17890.	13.7	124
6	Detection of magnetic field effects by confocal microscopy. <i>Chemical Science</i> , 2020, 11, 7772-7781.	7.4	4
7	Enhanced Intersystem Crossing and Transient Electron Spin Polarization in a Photoexcited Pentaceneâ€“Trityl Radical. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6068-6075.	2.5	19
8	Probing the orientation of porphyrin oligomers in a liquid crystal solvent â€“ a triplet state electron paramagnetic resonance study. <i>Molecular Physics</i> , 2019, 117, 2700-2708.	1.7	0
9	Chemical compass behaviour at microtesla magnetic fields strengthens the radical pair hypothesis of avian magnetoreception. <i>Nature Communications</i> , 2019, 10, 3707.	12.8	38
10	Spin Delocalization in the Radical Cations of Porphyrin Molecular Wires: A New Perspective on EPR Approaches. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5708-5712.	4.6	7
11	Molecular Physics. <i>Molecular Physics</i> , 2019, 117, 2593-2593.	1.7	2
12	ELDOR-detected NMR beyond hyperfine couplings: a case study with Cu(<i>scp</i>)-porphyrin dimers. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 11676-11688.	2.8	20
13	Light-Induced Pulsed EPR Dipolar Spectroscopy on a Paradigmatic Hemeprotein. <i>ChemPhysChem</i> , 2019, 20, 931-935.	2.1	20
14	A Structural Model of a P450-Ferredoxin Complex from Orientation-Selective Double Electronâ€“Electron Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018, 140, 2514-2527.	13.7	22
15	Feedback control optimisation of ESR experiments. <i>Journal of Magnetic Resonance</i> , 2018, 297, 9-16.	2.1	14
16	Conformationally Unambiguous Spin Label for Exploring the Binding Site Topology of Multivalent Systems. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6131-6135.	4.6	2
17	Magnetically Sensitive Radical Photochemistry of Non-natural Flavoproteins. <i>Journal of the American Chemical Society</i> , 2018, 140, 8705-8713.	13.7	16
18	On the low magnetic field effect in radical pair reactions. <i>Journal of Chemical Physics</i> , 2018, 149, 034103.	3.0	27

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19	Millitesla magnetic field effects on the photocycle of an animal cryptochrome. <i>Scientific Reports</i> , 2017, 7, 42228.	3.3	76
20	Quantifying the exchange coupling in linear copper porphyrin oligomers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16057-16061.	2.8	17
21	Constructive quantum interference in a bis-copper six-porphyrin nanoring. <i>Nature Communications</i> , 2017, 8, 14842.	12.8	36
22	On the Importance of Electronic Symmetry for Triplet State Delocalization. <i>Journal of the American Chemical Society</i> , 2017, 139, 5301-5304.	13.7	37
23	On the Influence of the Bridge on Triplet State Delocalization in Linear Porphyrin Oligomers. <i>Journal of the American Chemical Society</i> , 2017, 139, 12003-12008.	13.7	22
24	Delocalisation of photoexcited triplet states probed by transient EPR and hyperfine spectroscopy. <i>Journal of Magnetic Resonance</i> , 2017, 280, 103-116.	2.1	101
25	Electronic Delocalization in the Radical Cations of Porphyrin Oligomer Molecular Wires. <i>Journal of the American Chemical Society</i> , 2017, 139, 10461-10471.	13.7	67
26	Sub-millitesla magnetic field effects on the recombination reaction of flavin and ascorbic acid radicals. <i>Journal of Chemical Physics</i> , 2016, 145, 085101.	3.0	15
27	Engineering an Artificial Flavoprotein Magnetosensor. <i>Journal of the American Chemical Society</i> , 2016, 138, 16584-16587.	13.7	23
28	Exploring template-bound dinuclear copper porphyrin nanorings by EPR spectroscopy. <i>Chemical Science</i> , 2016, 7, 6952-6960.	7.4	9
29	Nanorings with copper(Cu^{II}) and zinc(Zn^{II}) centers: forcing copper porphyrins to bind axial ligands in heterometallated oligomers. <i>Chemical Science</i> , 2016, 7, 6961-6968.	7.4	33
30	Photogenerated triplet states in supramolecular porphyrin ladder assemblies: an EPR study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24171-24175.	2.8	4
31	Exploiting orientation-selective DEER: determining molecular structure in systems containing Cu^{II} centres. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5981-5994.	2.8	48
32	Chemical amplification of magnetic field effects relevant to avian magnetoreception. <i>Nature Chemistry</i> , 2016, 8, 384-391.	13.6	79
33	Excitation wavelength-dependent EPR study on the influence of the conformation of multiporphyrin arrays on triplet state delocalization. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5275-5280.	2.8	17
34	Spectroscopic and Crystal Field Consequences of Fluoride Binding by $[\text{Yb}^{\text{III}}\text{DTMA}]^{3+}$ in Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10783-10786.	13.8	52
35	Spectroscopic and Crystal Field Consequences of Fluoride Binding by $[\text{Yb}^{\text{III}}\text{DTMA}]^{3+}$ in Aqueous Solution. <i>Angewandte Chemie</i> , 2015, 127, 10933-10936.	2.0	16
36	Engineering coherent interactions in molecular nanomagnet dimers. <i>Npj Quantum Information</i> , 2015, 1, .	6.7	101

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37	Transient EPR Reveals Triplet State Delocalization in a Series of Cyclic and Linear π -Conjugated Porphyrin Oligomers. <i>Journal of the American Chemical Society</i> , 2015, 137, 8284-8293.	13.7	62
38	HYSCORE on Photoexcited Triplet States. <i>Applied Magnetic Resonance</i> , 2015, 46, 389-409.	1.2	8
39	Probing a chemical compass: novel variants of low-frequency reaction yield detected magnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3550-3559.	2.8	11
40	Triplet State Delocalization in a Conjugated Porphyrin Dimer Probed by Transient Electron Paramagnetic Resonance Techniques. <i>Journal of the American Chemical Society</i> , 2015, 137, 6670-6679.	13.7	74
41	Sensitive fluorescence-based detection of magnetic field effects in photoreactions of flavins. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18456-18463.	2.8	14
42	Crystal Structure of the <i>Bacillus subtilis</i> Phosphodiesterase PhoD Reveals an Iron and Calcium-containing Active Site. <i>Journal of Biological Chemistry</i> , 2014, 289, 30889-30899.	3.4	96
43	Broadband Cavity-Enhanced Detection of Magnetic Field Effects in Chemical Models of a Cryptochrome Magnetoreceptor. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4177-4184.	2.6	19
44	Magnetic field effects in flavoproteins and related systems. <i>Interface Focus</i> , 2013, 3, 20130037.	3.0	49
45	Spin-locking in low-frequency reaction yield detected magnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16043.	2.8	13
46	Structural model for the protein-translocating element of the twin-arginine transport system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1092-101.	7.1	99
47	Investigating the structure of the factor B vWF-A domain/CD55 protein-protein complex using DEER spectroscopy: successes and pitfalls. <i>Molecular Physics</i> , 2013, 111, 2865-2872.	1.7	2
48	Orientation-Selective DEER Using Rigid Spin Labels, Cofactors, Metals, and Clusters. <i>Structure and Bonding</i> , 2013, , 283-327.	1.0	24
49	Magnetically sensitive light-induced reactions in cryptochrome are consistent with its proposed role as a magnetoreceptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4774-4779.	7.1	290
50	Characterisation of the paramagnetic $[2Fe^{2+}2S]^{+}$ centre in palustrisredoxin-B (PuxB) from <i>Rhodospseudomonas palustris</i> CGA009: g-matrix determination and spin coupling analysis. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6526.	2.8	15
51	The Short-Lived Signaling State of the Photoactive Yellow Protein Photoreceptor Revealed by Combined Structural Probes. <i>Journal of the American Chemical Society</i> , 2011, 133, 9395-9404.	13.7	83
52	Following Radical Pair Reactions in Solution: A Step Change in Sensitivity Using Cavity Ring-Down Detection. <i>Journal of the American Chemical Society</i> , 2011, 133, 17807-17815.	13.7	29
53	Spin-selective recombination kinetics of a model chemical magnetoreceptor. <i>Chemical Communications</i> , 2011, 47, 6563.	4.1	35
54	<i>Shigella flexneri</i> Spa15 Crystal Structure Verified in Solution by Double Electron Electron Resonance. <i>Journal of Molecular Biology</i> , 2011, 405, 427-435.	4.2	21

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55	Cavity enhanced detection methods for probing the dynamics of spin correlated radical pairs in solution. <i>Molecular Physics</i> , 2010, 108, 993-1003.	1.7	14
56	Protein Surface Interactions Probed by Magnetic Field Effects on Chemical Reactions. <i>Journal of the American Chemical Society</i> , 2010, 132, 1466-1467.	13.7	15
57	Quenching Mechanisms and Diffusional Pathways in Micellar Systems Unravalled by Time-Resolved Magnetic Field Effects. <i>Chemistry - A European Journal</i> , 2009, 15, 6058-6064.	3.3	8
58	Possible involvement of superoxide and dioxygen with cryptochrome in avian magnetoreception: Origin of Zeeman resonances observed by in vivo EPR spectroscopy. <i>Chemical Physics Letters</i> , 2009, 480, 118-122.	2.6	94
59	Probing Flexibility in Porphyrin-Based Molecular Wires Using Double Electron Electron Resonance. <i>Journal of the American Chemical Society</i> , 2009, 131, 13852-13859.	13.7	70
60	Effect of magnetic fields on cryptochrome-dependent responses in <i>Arabidopsis thaliana</i> . <i>Journal of the Royal Society Interface</i> , 2009, 6, 1193-1205.	3.4	73
61	SQUID magnetometry as a tool for following a clock reaction in solution. <i>Dalton Transactions</i> , 2009, , 2467.	3.3	5
62	Magnetic Compass of Birds Is Based on a Molecule with Optimal Directional Sensitivity. <i>Biophysical Journal</i> , 2009, 96, 3451-3457.	0.5	271
63	Chemical compass model of avian magnetoreception. <i>Nature</i> , 2008, 453, 387-390.	27.8	422
64	Magnetic-field effect on the photoactivation reaction of <i>Escherichia coli</i> DNA photolyase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14395-14399.	7.1	113
65	Determination of Radical Re-encounter Probability Distributions from Magnetic Field Effects on Reaction Yields. <i>Journal of the American Chemical Society</i> , 2007, 129, 6746-6755.	13.7	85
66	Chemical Magnetoreception: Bird Cryptochrome 1a Is Excited by Blue Light and Forms Long-Lived Radical-Pairs. <i>PLoS ONE</i> , 2007, 2, e1106.	2.5	152
67	Magnetic Resonance Imaging of the Manipulation of a Chemical Wave Using an Inhomogeneous Magnetic Field. <i>Journal of the American Chemical Society</i> , 2006, 128, 7309-7314.	13.7	18
68	The Characterization of Weak Protein-Protein Interactions: Evidence from DEER for the Trimerization of a von Willebrand Factor A Domain in Solution. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1058-1061.	13.8	63
69	Magnetic field effect on singlet oxygen production in a biochemical system. <i>Chemical Communications</i> , 2005, , 174.	4.1	43
70	Low-Field Optically Detected EPR Spectroscopy of Transient Photoinduced Radical Pairs. <i>Journal of Physical Chemistry A</i> , 2005, 109, 5035-5041.	2.5	36
71	Magnetic resonance imaging of a magnetic field-dependent chemical wave. <i>Chemical Physics Letters</i> , 2004, 397, 67-72.	2.6	18
72	Radio Frequency Magnetic Field Effects on a Radical Recombination Reaction: A Diagnostic Test for the Radical Pair Mechanism. <i>Journal of the American Chemical Society</i> , 2004, 126, 8102-8103.	13.7	109

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73	A study of spin chemistry in weak magnetic fields. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 2573-2589.	3.4	114
74	Low field RYDMR: effects of orthogonal static and oscillating magnetic fields on radical recombination reactions. Molecular Physics, 2002, 100, 1181-1186.	1.7	14
75	Magnetic Field Control of Chemical Waves. , 0, , 381-398.		0