

Kiminori Maeda

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1158117/publications.pdf>

Version: 2024-02-01

61
papers

2,087
citations

361388

20
h-index

233409

45
g-index

61
all docs

61
docs citations

61
times ranked

1475
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical compass model of avian magnetoreception. <i>Nature</i> , 2008, 453, 387-390.	27.8	422
2	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
3	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
4	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
5	Radical Cation Stabilization in a Cucurbituril Oligoaniline Rotaxane. <i>Journal of the American Chemical Society</i> , 2007, 129, 12384-12385.	13.7	86
6	Millitesla magnetic field effects on the photocycle of an animal cryptochrome. <i>Scientific Reports</i> , 2017, 7, 42228.	3.3	76
7	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
8	Consistent Treatment of Spin-Selective Recombination of a Radical Pair Confirms the Haberkorn Approach. <i>Journal of Physical Chemistry A</i> , 2010, 114, 9447-9455.	2.5	60
9	Magnetic field effects in flavoproteins and related systems. <i>Interface Focus</i> , 2013, 3, 20130037.	3.0	49
10	Improved photo-CIDNP methods for studying protein structure and folding. <i>Journal of Biomolecular NMR</i> , 2000, 16, 235-244.	2.8	42
11	The Spin Mixing Process of a Radical Pair in Low Magnetic Field Observed by Transient Absorption Detected Nanosecond Pulsed Magnetic Field Effect. <i>Journal of Physical Chemistry A</i> , 2006, 110, 4151-4156.	2.5	38
12	Singlet-Born SCRIP Observed in the Photolysis of Tetraphenylhydrazine in an SDS Micelle: Time Dependence of the Population of the Spin States. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7783-7786.	2.5	37
13	Spin-selective recombination kinetics of a model chemical magnetoreceptor. <i>Chemical Communications</i> , 2011, 47, 6563.	4.1	35
14	Effect of Coulomb Interaction on the Dynamics of the Radical Pair in the System of Flavin Mononucleotide and Hen Egg-White Lysozyme (HEWL) Studied by a Magnetic Field Effect. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6474-6478.	2.6	33
15	The time-resolved absorption-detected magnetic resonance spectrum of the polymethylene linked biradical: effect of the exchange integral. <i>Chemical Physics Letters</i> , 1996, 262, 110-114.	2.6	29
16	Dynamics of Intramolecular Electron Transfer Reaction of FAD Studied by Magnetic Field Effects on Transient Absorption Spectra. <i>Journal of Physical Chemistry A</i> , 2005, 109, 5793-5800.	2.5	29
17	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
18	Microwave-Induced Quantum Beats in Micellized Radical Pairs under Spin-Locking Conditions. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8011-8017.	2.5	28

#	ARTICLE	IF	CITATIONS
19	Reaction operators for spin-selective chemical reactions of radical pairs. <i>Chemical Physics Letters</i> , 2011, 507, 269-273.	2.6	28
20	Real-time observation of the singlet \leftrightarrow triplet dephasing effect on the spin dynamics of the spin-correlated radical pair formed in the photolysis of tetraphenylhydrazine in a micelle. <i>Chemical Physics Letters</i> , 1999, 304, 173-179.	2.6	23
21	Structure and kinetics of the intermediate biradicals generated from intramolecular electron transfer reaction of FAD studied by an action spectrum of the magnetic field effect. <i>Chemical Physics Letters</i> , 2002, 362, 123-129.	2.6	21
22	Time-Domain Observation of External Magnetic Field Effects on the Delayed Fluorescence of N,N,N',N'-Tetramethyl-1,4-phenylenediamine in Alcoholic Solution. <i>Journal of Physical Chemistry A</i> , 2001, 105, 2961-2966.	2.5	20
23	Spin Dynamics of the Radical Pair in a Low Magnetic Field Studied by the Transient Absorption Detected Magnetic Field Effect on the Reaction Yield and Switched External Magnetic Field. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9911-9918.	2.5	19
24	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
25	Controlling of radical-ion pair reactions by microwave radiation: photoconductivity-detected magnetic resonance. <i>Chemical Physics Letters</i> , 1997, 264, 619-622.	2.6	18
26	Photoconductivity Detected Magnetic Resonance Study on Photoinduced Electron-Transfer Reaction of Xanthone and N,N-Diethylaniline in 2-Propanol. <i>Journal of Physical Chemistry A</i> , 1999, 103, 4137-4140.	2.5	18
27	Spin-selective recombination reactions of radical pairs: Experimental test of validity of reaction operators. <i>Journal of Chemical Physics</i> , 2013, 139, 234309.	3.0	18
28	Effect of Polymethylene-Chain Dynamics on the Lifetime of a Charge-Separated Biradical Studied by RYDMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1997, 101, 10661-10665.	2.6	17
29	Reply to Comment on \sim Spin-selective reactions of radical pairs act as quantum measurements \sim . <i>Chemical Physics Letters</i> , 2011, 508, 184-185.	2.6	17
30	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
31	Study on the coherent spin motion of the radical-ion pair formed in the laser photolysis of N,N,N',N'-tetramethyl-1,4-phenylenediamine in 2-propanol. <i>Chemical Physics</i> , 1998, 230, 201-208.	1.9	14
32	Radiofrequency polarization effects in zero-field electron paramagnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6569.	2.8	14
33	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
34	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
35	Observation of two-spin controlling of a radical pair by pulsed irradiation of microwave monitored by absorption detected magnetic resonance. <i>Chemical Physics Letters</i> , 2000, 332, 515-520.	2.6	13
36	Electron Tunneling in Lithium \rightarrow Ammonia Solutions Probed by Frequency-Dependent Electron Spin Relaxation Studies. <i>Journal of the American Chemical Society</i> , 2012, 134, 9209-9218.	13.7	13

#	ARTICLE	IF	CITATIONS
37	Multielement NMR Studies of the Liquid-Liquid Phase Separation and the Metal-to-Nonmetal Transition in Fluid Lithium and Sodium Ammonia Solutions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13322-13334.	2.6	13
38	Validity and possibility of photoconductivity-detected magnetic resonance (PCDMR) method as one of reaction-yield-detected magnetic resonance (RYDMR) methods. <i>Chemical Physics Letters</i> , 2001, 333, 242-247.	2.6	11
39	Dynamic process of the photo-chemically produced flavin radicals in a neutral micelle studied by a magnetic field effect. <i>Chemical Physics Letters</i> , 2004, 394, 344-348.	2.6	11
40	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
41	DNP and CIDEP Study of Cross-Relaxation Processes in Short-Lived Radicals in Solution. <i>Journal of Physical Chemistry A</i> , 1999, 103, 11271-11278.	2.5	10
42	Photocleavage reaction of bromine substituted aromatic acyl compounds studied by CIDEP and transient absorption spectroscopy. <i>Molecular Physics</i> , 2002, 100, 1469-1476.	1.7	10
43	Radiofrequency polarization effects in low-field electron paramagnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6573.	2.8	10
44	Refolding of ribonuclease A monitored by real-time photo-CIDNP NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2009, 44, 77-86.	2.8	9
45	Gigantic Magnetic Field Effect on the Long-Lived Intermolecular Charge-Separated State Created at the Nonionic Bilayer Membrane. <i>Journal of Physical Chemistry B</i> , 2018, 122, 12173-12183.	2.6	9
46	Dimerization by Hydrogen Bonding and Photochemical Properties of Dipyrindone. <i>Journal of Physical Chemistry A</i> , 2003, 107, 10039-10045.	2.5	8
47	Quenching Mechanisms and Diffusional Pathways in Micellar Systems Unravelling by Time-Resolved Magnetic-Field Effects. <i>Chemistry - A European Journal</i> , 2009, 15, 6058-6064.	3.3	8
48	Dynamic nuclear polarization studies of anomalous CIDNP behavior of benzaldehyde. <i>Chemical Physics Letters</i> , 1993, 204, 411-414.	2.6	7
49	Cidep study of radical-ion pair systems: Photooxidation reactions of carbazoles by maleic anhydride in alcohol solution. <i>Research on Chemical Intermediates</i> , 1998, 24, 859-877.	2.7	7
50	Long-Distance Sequential Charge Separation at Micellar Interface Mediated by Dynamic Charge Transporter: A Magnetic Field Effect Study. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 267-271.	4.6	6
51	CIDEP and CIDNP studies of the hydrogen abstraction of 9,10-anthraquinone from xanthene. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 253.	1.7	5
52	Delayed fluorescence detected magnetic resonance study on the spin dynamics of the transient radical-ion pair formed in the photolysis of carbazole in 2-propanol. <i>Chemical Physics Letters</i> , 1999, 302, 577-582.	2.6	5
53	Quantum control of radical pair reactions by local optimization theory. <i>Journal of Chemical Physics</i> , 2020, 152, 014301.	3.0	4
54	Electron-nuclear cross-relaxation effect on the photochemical reaction of benzaldehyde as studied by CIDNP and DNP. <i>Journal of Chemical Sciences</i> , 1993, 105, 629-636.	1.5	3

#	ARTICLE	IF	CITATIONS
55	Single-molecule spectroscopy of radical pairs, a theoretical treatment and experimental considerations. <i>Molecular Physics</i> , 2019, 117, 2604-2617.	1.7	2
56	CIDNP Studies on the Photochemical Reaction of 4-Methyl-2-quinolinecarbonitrile with Optically Active (S)- or (R)-2-Phenylpropionic Acid. No Evidence for the Chiral Symmetry Breaking. <i>Chemistry Letters</i> , 1995, 24, 227-228.	1.3	1
57	Effect of halogen atom on electron spin polarization studied by CIDEP, using halogen substituted aromatic acyl compounds. <i>Molecular Physics</i> , 2003, 101, 3341-3348.	1.7	1
58	SNP Studies on the Structure of the Short-Lived Radical Pair Generated in the Hydrogen Abstraction Reaction of Anthraquinone from Xanthene. <i>Bulletin of the Chemical Society of Japan</i> , 1996, 69, 2731-2734.	3.2	0
59	3TA2-07 Magnetic Field Effects on the photochemical reactions in protein systems(The 47th Annual) Tj ETQq1 1 0.784314 rgBT /Overlo 0.1	0.1	0
60	Dynamics of flavin containing radical pairs in SDS micellar media probed by static and pulse magnetic field effect and pulse ADMR. <i>Molecular Physics</i> , 2019, 117, 2709-2718.	1.7	0
61	Low magnetic field effects on a photoinduced electron transfer reaction in an ionic liquid. <i>Chemical Physics Letters</i> , 2021, 773, 138569.	2.6	0