

# Kiminori Maeda

## List of Publications by Citations

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61  
papers

1,804  
citations

20  
h-index

41  
g-index

61  
ext. papers

1,953  
ext. citations

4.9  
avg, IF

4.07  
L-index

#	Paper	IF	Citations
61	Chemical compass model of avian magnetoreception. <i>Nature</i> , <b>2008</b> , 453, 387-90	50.4	363
60	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> , <b>2012</b> , 109, 4774-9	11.5	232
59	Chemical magnetoreception: bird cryptochrome 1a is excited by blue light and forms long-lived radical-pairs. <i>PLoS ONE</i> , <b>2007</b> , 2, e1106	3.7	133
58	Magnetic-field effect on the photoactivation reaction of Escherichia coli DNA photolyase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 14395-9	11.5	109
57	Radical cation stabilization in a cucurbituril oligoaniline rotaxane. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12384-5	16.4	75
56	Millitesla magnetic field effects on the photocycle of an animal cryptochrome. <i>Scientific Reports</i> , <b>2017</b> , 7, 42228	4.9	62
55	Effect of magnetic fields on cryptochrome-dependent responses in Arabidopsis thaliana. <i>Journal of the Royal Society Interface</i> , <b>2009</b> , 6, 1193-205	4.1	61
54	Consistent treatment of spin-selective recombination of a radical pair confirms the Haberkorn approach. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 9447-55	2.8	52
53	Magnetic field effects in flavoproteins and related systems. <i>Interface Focus</i> , <b>2013</b> , 3, 20130037	3.9	37
52	Improved photo-CIDNP methods for studying protein structure and folding. <i>Journal of Biomolecular NMR</i> , <b>2000</b> , 16, 235-44	3	35
51	Spin-selective recombination kinetics of a model chemical magnetoreceptor. <i>Chemical Communications</i> , <b>2011</b> , 47, 6563-5	5.8	34
50	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> , <b>2006</b> , 110, 4151-6	2.8	34
49	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> , <b>1997</b> , 101, 7783-7786	2.8	32
48	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> , <b>2003</b> , 107, 6474-6478	3.4	32
47	The time-resolved absorption-detected magnetic resonance spectrum of the polymethylene linked biradical: effect of the exchange integral. <i>Chemical Physics Letters</i> , <b>1996</b> , 262, 110-114	2.5	29
46	Dynamics of intramolecular electron transfer reaction of FAD studied by magnetic field effects on transient absorption spectra. <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 5793-800	2.8	27
45	Microwave-Induced Quantum Beats in Micellized Radical Pairs under Spin-Locking Conditions. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 8011-8017	2.8	27

44	Following radical pair reactions in solution: a step change in sensitivity using cavity ring-down detection. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 17807-15	16.4	24
43	Reaction operators for spin-selective chemical reactions of radical pairs. <i>Chemical Physics Letters</i> , <b>2011</b> , 507, 269-273	2.5	22
42	Real-time observation of the singlet-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> , <b>1999</b> , 304, 173-179	2.5	22
41	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> , <b>2002</b> , 362, 123-129	2.5	18
40	Controlling of radical-ion pair reactions by microwave radiation: photoconductivity-detected magnetic resonance. <i>Chemical Physics Letters</i> , <b>1997</b> , 264, 619-622	2.5	17
39	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> , <b>2005</b> , 109, 9911-8	2.8	17
38	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> , <b>2001</b> , 105, 2961-2966	2.8	17
37	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> , <b>1999</b> , 103, 4137-4140	2.8	17
36	Broadband cavity-enhanced detection of magnetic field effects in chemical models of a cryptochrome magnetoreceptor. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 4177-84	3.4	16
35	Reply to Comment on "Spin-selective reactions of radical pairs act as quantum measurements" <i>Chemical Physics Letters</i> , <b>2011</b> , 508, 184-185	2.5	16
34	Effect of Polymethylene-Chain Dynamics on the Lifetime of a Charge-Separated Biradical Studied by RYDMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 10661-10665	3.4	16
33	Protein surface interactions probed by magnetic field effects on chemical reactions. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 1466-7	16.4	15
32	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> , <b>1998</b> , 230, 201-208	2.3	13
31	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> , <b>2000</b> , 332, 515-520	2.5	13
30	Spin-selective recombination reactions of radical pairs: experimental test of validity of reaction operators. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 234309	3.9	12
29	Cavity enhanced detection methods for probing the dynamics of spin correlated radical pairs in solution. <i>Molecular Physics</i> , <b>2010</b> , 108, 993-1003	1.7	12
28	Radiofrequency polarization effects in zero-field electron paramagnetic resonance. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 6569-72	3.6	11
27	Dynamic process of the photo-chemically produced flavin radicals in a neutral micelle studied by a magnetic field effect. <i>Chemical Physics Letters</i> , <b>2004</b> , 394, 344-348	2.5	11

26	Sensitive fluorescence-based detection of magnetic field effects in photoreactions of flavins. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 18456-63	3.6	10
25	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> , <b>2013</b> , 117, 13322-34	3.4	10
24	Electron tunneling in lithium-ammonia solutions probed by frequency-dependent electron spin relaxation studies. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 9209-18	16.4	10
23	Photocleavage reaction of bromine substituted aromatic acyl compounds studied by CIDEP and transient absorption spectroscopy. <i>Molecular Physics</i> , <b>2002</b> , 100, 1469-1476	1.7	10
22	Probing a chemical compass: novel variants of low-frequency reaction yield detected magnetic resonance. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 3550-9	3.6	9
21	Radiofrequency polarization effects in low-field electron paramagnetic resonance. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 6573-9	3.6	9
20	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> , <b>2001</b> , 333, 242-247	2.5	9
19	DNP and CIDEP Study of Cross-Relaxation Processes in Short-Lived Radicals in Solution. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 11271-11278	2.8	9
18	Quenching mechanisms and diffusional pathways in micellar systems unravelled by time-resolved magnetic-field effects. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 6058-64	4.8	8
17	Refolding of ribonuclease A monitored by real-time photo-CIDNP NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , <b>2009</b> , 44, 77-86	3	8
16	Dimerization by Hydrogen Bonding and Photochemical Properties of Dipyrindone. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 10039-10045	2.8	8
15	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> , <b>2018</b> , 122, 12173-12183	3.4	8
14	Cidep study of radical-ion pair systems: Photooxidation reactions of carbazoles by maleic anhydride in alcohol solution. <i>Research on Chemical Intermediates</i> , <b>1998</b> , 24, 859-877	2.8	7
13	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> , <b>2015</b> , 6, 267-71	6.4	6
12	Dynamic nuclear polarization studies of anomalous CIDNP behavior of benzaldehyde. <i>Chemical Physics Letters</i> , <b>1993</b> , 204, 411-414	2.5	6
11	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> , <b>1999</b> , 302, 577-582	2.5	4
10	CIDEP and CIDNP studies of the hydrogen abstraction of 9,10-anthraquinone from xanthene. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1990</b> , 86, 253		4
9	Electron-nuclear cross-relaxation effect on the photochemical reaction of benzaldehyde as studied by CIDNP and DNP. <i>Journal of Chemical Sciences</i> , <b>1993</b> , 105, 629-636	1.8	3

8	Effect of halogen atom on electron spin polarization studied by CIDEP, using halogen substituted aromatic acyl compounds. <i>Molecular Physics</i> , <b>2003</b> , 101, 3341-3348	1.7	1
7	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> , <b>1995</b> , 24, 227-228	1.7	1
6	Quantum control of radical pair reactions by local optimization theory. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 014301	3.9	1
5	Single-molecule spectroscopy of radical pairs, a theoretical treatment and experimental considerations. <i>Molecular Physics</i> , <b>2019</b> , 117, 2604-2617	1.7	0
4	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> , <b>2019</b> , 117, 2709-2718	1.7	
3	3TA2-07 Magnetic Field Effects on the photochemical reactions in protein systems(The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , <b>2009</b> , 49, S54	0	
2	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> , <b>1996</b> , 69, 2731-2734	5.1	
1	Low magnetic field effects on a photoinduced electron transfer reaction in an ionic liquid. <i>Chemical Physics Letters</i> , <b>2021</b> , 773, 138569	2.5	