

Akio Kawai

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Exchange Interaction in Radical-Triplet Pairs: Evidences for CIDEP Generation by Level Crossings in Triplet-Doublet Interactions. <i>Journal of Physical Chemistry A</i> , 1998, 102, 5160-5170.	2.5	81
2	Polarity of Room-Temperature Ionic Liquid as Examined by EPR Spectroscopy. <i>Chemistry Letters</i> , 2004, 33, 1464-1465.	1.3	78
3	EPR Study of Rotational Diffusion in Viscous Ionic Liquids: Analysis by a Fractional Stokes-Einstein-Debye Law. <i>Chemistry Letters</i> , 2009, 38, 124-125.	1.3	32
4	Structure and Reactivity of Radicals Produced by Photocleavage of Oxime Ester Compounds Studied by Time-resolved Electron Paramagnetic Resonance Spectroscopy. <i>Chemistry Letters</i> , 2014, 43, 1275-1277.	1.3	27
5	Monitoring Isomerization of Molecules in Solution Using Ion Mobility Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 11978-11981.	6.5	24
6	Hydrodynamic Interpretation on the Rotational Diffusion of Peroxylamine Disulfonate Solute Dissolved in Room Temperature Ionic Liquids As Studied by Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 6347-6356.	2.5	22
7	Electron spin dynamics of triplet and doublet molecules in room temperature ionic liquids studied by a time-resolved EPR method. <i>Molecular Physics</i> , 2006, 104, 1573-1579.	1.7	18
8	Quenching Mechanism of Excited Coronene by a Nitroxide Radical Studied by Probing Dynamic Electron Polarization. <i>Journal of Physical Chemistry A</i> , 2004, 108, 524-531.	2.5	16
9	Pulsed EPR study on large dynamic electron polarisation created in the quenching of photo-excited xanthene dyes by nitroxide radicals in aqueous solutions. <i>Molecular Physics</i> , 2014, 112, 1012-1020.	1.7	16
10	Charge-Transfer Controlled Exchange Interaction in Radical-Triplet Encounter Pairs as Studied by FT-EPR Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2007, 111, 4890-4901.	2.5	15
11	Time resolved ESR study on energy difference of quartet and doublet states in radical-triplet encounter pairs. <i>Molecular Physics</i> , 2002, 100, 1225-1234.	1.7	14
12	Photooxidation Reactions of Cyclometalated Palladium(II) and Platinum(II) Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 15720-15725.	4.0	13
13	Temporal Behavior of the Singlet Molecular Oxygen Emission in Imidazolium and Morpholinium Ionic Liquids and Its Implications. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6696-6702.	2.6	12
14	Addition Rate Constants of Phosphorus- and Carbon-Centered Radicals to Double Bond of Monomers as Studied by a Pulsed Electron Paramagnetic Resonance Method. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8261-8268.	2.5	11
15	Time-Resolved ESR Studies on Ketyl Type Radical-Amine Complexes. <i>The Journal of Physical Chemistry</i> , 1996, 100, 10021-10026.	2.9	10
16	Solvent-dependent Photoisomerization Quantum Yield of 2-Phenylazo-1-alkyl-3-methylimidazolium Cations in Ionic Liquids under S ₁ (n, π^*) Excitation. <i>Chemistry Letters</i> , 2013, 42, 1490-1492.	1.3	9
17	Dispersed fluorescence spectra of jet-cooled benzophenone ketyl radical: Assignment of the low-frequency vibrational modes. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1370-1375.	2.8	8
18	Red-light-induced Photoreaction of DMS-O ₃ Complex in a Cryogenic Neon Matrix. <i>Chemistry Letters</i> , 2012, 41, 252-253.	1.3	7

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19	Solute Size-dependent Rotational Diffusion of Nitroxide Radicals in Ionic Liquids as Studied by EPR Spectroscopy. <i>Chemistry Letters</i> , 2013, 42, 1429-1431.	1.3	7
20	CIDEP Created by the Quenching of Photo-Excited Tryptophan at Protein Surface: A Challenge to CIDEP Probing of Protein Structural Changes. <i>Applied Magnetic Resonance</i> , 2010, 38, 205-216.	1.2	6
21	Pulsed EPR measurements on reaction rate constants for addition of photo-generated radicals to double bonds of diethyl fumarate and diethyl maleate. <i>Molecular Physics</i> , 2016, 114, 3093-3103.	1.7	5
22	Rate constant measurements for initial addition reactions of radicals at the propagation step of photo-polymerization as studied by pulsed EPR spectroscopy. <i>Journal of Physical Organic Chemistry</i> , 2016, 29, 468-475.	1.9	3
23	Solvation and Rotational Diffusion of Solutes in Room Temperature Ionic Liquids as Studied by EPR Spectroscopy with Nitroxide Spin Probing Method. <i>Applied Magnetic Resonance</i> , 2018, 49, 825-835.	1.2	3
24	Measurements for Addition Reaction Rate Constants of Organic Free Radicals to Maleic Anhydride by Means of Pulsed EPR Spectroscopy with Laser Excitation. <i>Applied Magnetic Resonance</i> , 2018, 49, 813-824.	1.2	1
25	Foreign gas effect on the O_2 solvation cavity in voids of ionic liquids studied by the solvatochromic red-shift of $\text{O}_2(1^1\text{g})$ phosphorescence. <i>Journal of Chemical Physics</i> , 2021, 155, 234503.	3.0	0