Yasuhiro Kobori

List of Publications by Year in Descending Order

87 papers	2,099 citations	26 h-index	41 g-index
105 ext. papers	2,359 ext. citations	7.1 avg, IF	5.02 L-index

#	Paper	IF	Citations
87	Identification of a Self-Photosensitizing Hydrogen Atom Transfer Organocatalyst System.. *Journal of the American Chemical Society*, **2022**,	16.4	3
86	Molecular Design Strategy for High-Yield and Long-Lived Individual Doubled Triplet Excitons through Intramolecular Singlet Fission. *ACS Energy Letters*, **2022**, 7, 390-400	20.1	4
85	Manipulation of Charge-Transfer States by Molecular Design: Perspective from Dynamic Exciton *Accounts of Materials Research*, **2021**, 2, 501-514	7.5	10
84	Enthalpy-Entropy Compensation Effect for Triplet Pair Dissociation of Intramolecular Singlet Fission in Phenylene Spacer-Bridged Hexacene Dimers. *Journal of Physical Chemistry Letters*, **2021**, 12, 6457-6463	6.4	4
83	Organic photostimulated luminescence associated with persistent spin-correlated radical pairs. *Communications Materials*, **2021**, 2,	6	4
82	Synergetic Role of Conformational Flexibility and Electronic Coupling for Quantitative Intramolecular Singlet Fission. *Journal of Physical Chemistry C*, **2021**, 125, 18287-18296	3.8	5
81	Fast T-Type Photochromism of Colloidal Cu-Doped ZnS Nanocrystals. *Journal of the American Chemical Society*, **2021**, 143, 2239-2249	16.4	11
80	TiO superstructures with oriented nanospaces: a strategy for efficient and selective photocatalysis. *Nanoscale*, **2020**, 12, 6420-6428	7.7	6
79	Electron spin polarization generated by transport of singlet and quintet multiexcitons to spin-correlated triplet pairs during singlet fissions. *Chemical Science*, **2020**, 11, 2934-2942	9.4	26
78	Unraveling Hidden Correlations between Molecular Diffusivity and Reactivity in Ruthenium Complex-Modified Mesoporous Silica. *Journal of Physical Chemistry C*, **2020**, 124, 21502-21511	3.8	
77	Geometries and Terahertz Motions Driving Quintet Multiexcitons and Ultimate Triplet-Triplet Dissociations via the Intramolecular Singlet Fissions. *Journal of Physical Chemistry B*, **2020**, 124, 9411-9419	3.4	13
76	Mechanistic Insights into Photochemical Reactions on CH3NH3PbBr3 Perovskite Nanoparticles from Single-Particle Photoluminescence Spectroscopy. *ChemNanoMat*, **2019**, 5, 340-345	3.5	4
75	Controlled Orientations of Neighboring Tetracene Units by Mixed Self-Assembled Monolayers on Gold Nanoclusters for High-Yield and Long-Lived Triplet Excited States through Singlet Fission. *Journal of the American Chemical Society*, **2019**, 141, 14720-14727	16.4	25
74	Transient Electron Spin Polarization Imaging of Heterogeneous Charge-Separation Geometries at Bulk-Heterojunction Interfaces in Organic Solar Cells. *Journal of Physical Chemistry C*, **2019**, 123, 13472-13481	3.8	14
73	Charge Carrier Dynamics in Sr-Doped NaTaO3 Photocatalysts Revealed by Deep Ultraviolet Single-Particle Microspectroscopy. *Journal of Physical Chemistry C*, **2019**,	3.8	6
72	Exergonic Intramolecular Singlet Fission of an Adamantane-Linked Tetracene Dyad via Twin Quintet Multiexcitons. *Journal of Physical Chemistry C*, **2019**, 123, 18813-18823	3.8	26
71	Structural Dynamics of Lipid Bilayer Membranes Explored by Magnetic Field Effect Based Fluorescence Microscopy. *Journal of Physical Chemistry B*, **2019**, 123, 10896-10902	3.4	2

70	Quantitative Sequential Photoenergy Conversion Process from Singlet Fission to Intermolecular Two-Electron Transfers Utilizing Tetracene Dimer. *ACS Energy Letters*, **2019**, 4, 26-31	20.1	21
69	UVA- and Visible-Light-Mediated Generation of Carbon Radicals from Organochlorides Using Nonmetal Photocatalyst. *Journal of Organic Chemistry*, **2018**, 83, 9381-9390	4.2	35
68	Charge-Transfer Character Drives Möbius Antiaromaticity in the Excited Triplet State of Twisted [28]Hexaphyrin. *Journal of Physical Chemistry Letters*, **2018**, 9, 2685-2690	6.4	12
67	Time-Resolved EPR Study on Singlet-Fission Induced Quintet Generation and Subsequent Triplet Dissociation in TIPS-Phenyl-Tetracene Aggregates. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2018**, 31, 163-167	0.7	1
66	Several Orders of Magnitude Difference in Charge-Transfer Kinetics Induced by Localized Trapped Charges on Mixed-Halide Perovskites. *ACS Applied Materials & Interfaces*, **2018**, 10, 37057-37066	9.5	5
65	Identifying triplet pathways in dilute pentacene films. *Nature Communications*, **2018**, 9, 4222	17.4	50
64	Singlet-Fission-Born Quintet State: Sublevel Selections and Trapping by Multiexciton Thermodynamics. *Journal of Physical Chemistry Letters*, **2018**, 9, 5855-5861	6.4	39
63	Multiexciton Dynamics Depending on Intramolecular Orientations in Pentacene Dimers: Recombination and Dissociation of Correlated Triplet Pairs. *Journal of Physical Chemistry Letters*, **2018**, 9, 3354-3360	6.4	53
62	Switching of the π-electronic conjugations in the reduction of a dithienylethene-fused p-benzoquinone. *RSC Advances*, **2017**, 7, 2403-2406	3.7	6
61	Regulated Electron Tunneling of Photoinduced Primary Charge-Separated State in the Photosystem II Reaction Center. *Journal of Physical Chemistry Letters*, **2017**, 8, 1179-1184	6.4	12
60	Direct Observation of Charge Collection at Nanometer-Scale Iodide-Rich Perovskites during Halide Exchange Reaction on CHNHPbBr. *Journal of Physical Chemistry Letters*, **2017**, 8, 1724-1728	6.4	21
59	Topotactic Epitaxy of SrTiO3 Mesocrystal Superstructures with Anisotropic Construction for Efficient Overall Water Splitting. *Angewandte Chemie*, **2017**, 129, 5383-5387	3.6	11
58	Topotactic Epitaxy of SrTiO Mesocrystal Superstructures with Anisotropic Construction for Efficient Overall Water Splitting. *Angewandte Chemie - International Edition*, **2017**, 56, 5299-5303	16.4	74
57	Time-Resolved EPR Study on Photoinduced Charge-Transfer Trap State in Thiophene-Thiazolothiazole Copolymer Film. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2017**, 30, 551-555	0.7	2
56	Self-Assembled Molecular Gear: A 4:1 Complex of Rh(III)Cl Tetraarylporphyrin and Tetra(p-pyridyl)cavitand. *Journal of the American Chemical Society*, **2016**, 138, 12564-77	16.4	28
55	Remarkable Dependence of the Final Charge Separation Efficiency on the Donor–Acceptor Interaction in Photoinduced Electron Transfer. *Angewandte Chemie*, **2016**, 128, 639-643	3.6	21
54	Crystal-Face-Dependent Charge Dynamics on a BiVO4 Photocatalyst Revealed by Single-Particle Spectroelectrochemistry. *ACS Catalysis*, **2016**, 6, 2250-2256	13.1	100
53	Photoinduced Charge-Transfer State of 4-Carbazolyl-3-(trifluoromethyl)benzoic Acid: Photophysical Property and Application to Reduction of Carbon-Halogen Bonds as a Sensitizer. *Chemistry - an Asian Journal*, **2016**, 11, 2006-10	4.5	15

52	Morphology Effect on Geometry of Photoinduced Charge-Separated State in P3HT:PCBM Blend Films as Studied by Time-Resolved EPR Spectroscopy. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2016**, 29, 561-564	0.7	1
51	Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer. *Angewandte Chemie - International Edition*, **2016**, 55, 629-33	16.4	79
50	Geometries, Electronic Couplings, and Hole Dissociation Dynamics of Photoinduced Electron-Hole Pairs in Polyhexylthiophene-Fullerene Dyads Rigidly Linked by Oligophenylenes. *Journal of the American Chemical Society*, **2016**, 138, 5879-85	16.4	37
49	Time Resolved EPR Study on the Photoinduced Long-Range Charge-Separated State in Protein: Electron Tunneling Mediated by Arginine Residue in Human Serum Albumin. *Journal of Physical Chemistry B*, **2016**, 120, 4365-72	3.4	3
48	Surface Charge Trapping in Organolead Halide Perovskites Explored by Single-Particle Photoluminescence Imaging. *Journal of Physical Chemistry Letters*, **2015**, 6, 3195-3201	6.4	95
47	Time-Resolved Electron Paramagnetic Resonance Study on Cofactor Geometries and Electronic Couplings after Primary Charge Separations in the Photosynthetic Reaction Center. *Journal of Physical Chemistry C*, **2015**, 119, 8078-8088	3.8	12
46	Overcoming Coulombic Traps: Geometry and Electronic Characterizations of Light-Induced Separated Spins at the Bulk Heterojunction Interface. *Journal of Physical Chemistry Letters*, **2015**, 6, 113-23	6.4	21
45	Time-Resolved EPR Study of Electron-Hole Dissociations Influenced by Alkyl Side Chains at the Photovoltaic Polyalkylthiophene:PCBM Interface. *Journal of Physical Chemistry Letters*, **2014**, 5, 30-5	6.4	20
44	Long-Range Interfacial Electronic Coupling in Organic Photovoltaic Interface Studied by Time-Resolved Paramagnetic Resonance Spectroscopy. *Hyomen Kagaku*, **2014**, 35, 621-626		
43	Initial Molecular Photocurrent: Nanostructure and Motion of Weakly Bound Charge-Separated State in Organic Photovoltaic Interface. *Journal of Physical Chemistry C*, **2013**, 117, 1589-1599	3.8	41
42	Structure and dynamics of photogenerated triplet radical ion pairs in DNA hairpin conjugates with anthraquinone end caps. *Journal of the American Chemical Society*, **2012**, 134, 11251-60	16.4	24
41	Protein-ligand structure and electronic coupling of photoinduced charge-separated state: 9,10-anthraquinone-1-sulfonate bound to human serum albumin. *Journal of the American Chemical Society*, **2011**, 133, 16770-3	16.4	14
40	Conversion of Cobalt(II) Porphyrin into a Helical Cobalt(III) Complex of Acyclic Pentapyrrole. *Angewandte Chemie*, **2011**, 123, 6713-6716	3.6	6
39	Conversion of cobalt(II) porphyrin into a helical cobalt(III) complex of acyclic pentapyrrole. *Angewandte Chemie - International Edition*, **2011**, 50, 6583-6	16.4	14
38	Electron spin polarization transfer to the charge-separated state from locally excited triplet configuration: theory and its application to characterization of geometry and electronic coupling in the electron donor-acceptor system. *Journal of Physical Chemistry B*, **2010**, 114, 14621-30	3.4	29
37	On Electron Spin Polarization Created in the Excited Triplet State of Accessory Chlorophyll via Photoinduced Charge-Recombination of the Photosystem II Reaction Center. *Applied Magnetic Resonance*, **2010**, 37, 177-189	0.8	5
36	Molecular recognition and self-assembly special feature: Encapsulated-guest rotation in a self-assembled heterocapsule directed toward a supramolecular gyroscope. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 10444-8	11.5	62
35	Magnetophotoselection in the spin-polarized triplet state radical-ion pair formed in the photo-induced solvent-mediated electron transfer reaction from N,N-diethylaniline to xanthone in viscous solution. *Journal of Physical Chemistry A*, **2009**, 113, 633-8	2.8	

34	Time-resolved EPR characterization of a folded conformation of photoinduced charge-separated state in porphyrin-fullerene dyad bridged by diphenyldisilane. *Journal of the American Chemical Society*, **2009**, 131, 1624-5	16.4	40
33	1D radical motion in protein pocket: proton-coupled electron transfer in human serum albumin. *Journal of the American Chemical Society*, **2006**, 128, 4-5	16.4	45
32	Time-resolved detection of melanin free radicals quenching reactive oxygen species. *Journal of the American Chemical Society*, **2005**, 127, 11220-1	16.4	60
31	Primary charge-recombination in an artificial photosynthetic reaction center. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 10017-22	11.5	77
30	Melanin photoprotection in the human retinal pigment epithelium and its correlation with light-induced cell apoptosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 8978-83	11.5	82
29	Control of the sign of exchange interactions in solvent-separated radical ion pairs. *Applied Magnetic Resonance*, **2004**, 26, 145-154	0.8	3
28	Theoretical Study on Electronic and Solvent Reorganization Associated with a Charging Process of Organic Compounds. 2. A New Decomposition Procedure into Electrostatic and Nonelectrostatic Responses. *Journal of Physical Chemistry B*, **2004**, 108, 11709-11715	3.4	12
27	Superexchange Electron Tunneling Mediated by Solvent Molecules: Pulsed Electron Paramagnetic Resonance Study on Electronic Coupling in Solvent-Separated Radical Ion Pairs *Journal of Physical Chemistry B*, **2004**, 108, 10226-10240	3.4	24
26	Quenching Mechanism of Excited Coronene by a Nitroxide Radical Studied by Probing Dynamic Electron Polarization. *Journal of Physical Chemistry A*, **2004**, 108, 524-531	2.8	15
25	Unusually Large Dynamic Electron Polarization in an O2(1)/2,2,6,6-Tetramethylpiperidine-1-oxyl Radical System. *Journal of Physical Chemistry A*, **2004**, 108, 1120-1126	2.8	14
24	Aspects of the Electron Transfer Reaction Rate for Systems Accompanying a Chemical Equilibrium Change. *Bulletin of the Chemical Society of Japan*, **2004**, 77, 1997-2001	5.1	2
23	Diffusion-model analysis of effective CIDEP distance in solvent-separated radical-ion pair. *Applied Magnetic Resonance*, **2003**, 23, 269-287	0.8	8
22	Time-resolved EPR study on reorganization energies for charge recombination reactions in the systems involving hydrogen bonding. *Chemical Physics Letters*, **2003**, 369, 49-54	2.5	15
21	Long-range jump versus stepwise hops: magnetic field effects on the charge-transfer fluorescence from photoconductive polymer films. *Journal of the American Chemical Society*, **2003**, 125, 4722-3	16.4	30
20	Reorganization Energy Induced by Noncovalent Bonding Interaction in Electron Transfer Reactions. *Journal of Physical Chemistry B*, **2003**, 107, 13255-13257	3.4	7
19	Theoretical study of electronic and solvent reorganization associated with a charging process of organic compounds. I. Molecular and atomic level description of solvent reorganization. *Journal of Chemical Physics*, **2003**, 119, 2753-2760	3.9	20
18	Spin dynamics and zero-field splitting constants of the triplet exciplex generated by photoinduced electron transfer reaction between erythrosin B and duroquinone. *Chemical Physics Letters*, **2002**, 360, 13-21	2.5	15
17	Time-Resolved EPR Study on Reorganization Energies for Charge Recombination Processes in Nanometer-Separated Radical Ion Pairs. *Journal of Physical Chemistry B*, **2002**, 106, 10074-10081	3.4	19

16	Magnetic field and spin effects from sequential p-type and d-type triplet mechanisms. *Molecular Physics*, **2002**, 100, 1245-1259	1.7	17
15	Solvent effects on the intrinsic enhancement factors of the triplet exciplex generated by photoinduced electron transfer reaction between eosin Y and duroquinone. *Molecular Physics*, **2002**, 100, 1413-1420	1.7	12
14	Spin-orbit coupling induced electron spin polarization in photoinduced electron transfer reactions. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2001**, 2, 17-33	16.4	23
13	Magnetic field effects on the triplet exciplex dynamics in the duroquinone-N,N-dimethylaniline derivative systems. *Research on Chemical Intermediates*, **2001**, 27, 155-164	2.8	5
12	Determination of electron-transfer reorganization energy in nanometer-separated radical ion pair by time-resolved EPR spectroscopy. *Journal of the American Chemical Society*, **2001**, 123, 9722-3	16.4	26
11	Theoretical analysis of singlet–triplet energy splitting generated by charge-transfer interaction in electron donor–acceptor radical pair systems. *Journal of Chemical Physics*, **2000**, 113, 465-468	3.9	40
10	Chemically Induced Dynamic Electron Polarization Study on the Mechanism of Exchange Interaction in Radical Ion Pairs Generated by Photoinduced Electron Transfer Reactions. *Journal of Physical Chemistry A*, **1999**, 103, 5416-5424	2.8	94
9	Marcus Free Energy Dependence of the Sign of Exchange Interactions in Radical Ion Pairs Generated by Photoinduced Electron Transfer Reactions. *Journal of the American Chemical Society*, **1998**, 120, 1325-1326	16.4	47
8	Exchange Interaction in Radical–Triplet Pairs: Evidences for CIDEP Generation by Level Crossings in Triplet–Doublet Interactions. *Journal of Physical Chemistry A*, **1998**, 102, 5160-5170	2.8	69
7	Intrinsic Enhancement Factors of the Spin–Orbit Coupling Mechanism Polarization in the Duroquinone–N,N-Dimethylaniline Derivative Systems. *Journal of Physical Chemistry A*, **1998**, 102, 8078-8083	2.8	16
6	CIDEP in radical-singlet molecular oxygen system. *Applied Magnetic Resonance*, **1997**, 12, 405-410	0.8	12
5	Time-Resolved ESR Studies on Ketyl Type Radical–Amine Complexes. *The Journal of Physical Chemistry*, **1996**, 100, 10021-10026		10
4	Absolute magnitude of spin polarization in the radical-triplet pair mechanism: CIDEP generation by level crossings in a triplet-doublet interaction. *Chemical Physics Letters*, **1996**, 252, 355-361	2.5	30
3	The first observation of CIDEP generated through the interaction between an excited singlet oxygen molecule and a free radical. *Chemical Physics Letters*, **1996**, 262, 125-130	2.5	23
2	Direct Observation of CIDEP Generated through Enhanced Intersystem Crossing. *The Journal of Physical Chemistry*, **1994**, 98, 6425-6429		44
1	Time-resolved ESR spectra of the α-hydroxybenzyl-amine complex. *Chemical Physics Letters*, **1993**, 215, 203-208	2.5	8