

# Yasuhiro Kobori

## List of Publications by Citations

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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	Crystal-Face-Dependent Charge Dynamics on a BiVO <sub>4</sub> Photocatalyst Revealed by Single-Particle Spectroelectrochemistry. <i>ACS Catalysis</i> , <b>2016</b> , 6, 2250-2256	13.1	100
86	Surface Charge Trapping in Organolead Halide Perovskites Explored by Single-Particle Photoluminescence Imaging. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3195-3201	6.4	95
85	Chemically Induced Dynamic Electron Polarization Study on the Mechanism of Exchange Interaction in Radical Ion Pairs Generated by Photoinduced Electron Transfer Reactions. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 5416-5424	2.8	94
84	Melanin photoprotection in the human retinal pigment epithelium and its correlation with light-induced cell apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 8978-83	11.5	82
83	Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 629-33	16.4	79
82	Primary charge-recombination in an artificial photosynthetic reaction center. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 10017-22	11.5	77
81	Topotactic Epitaxy of SrTiO Mesocrystal Superstructures with Anisotropic Construction for Efficient Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 5299-5303	16.4	74
80	Exchange Interaction in Radical Triplet Pairs: Evidences for CIDEP Generation by Level Crossings in Triplet-Doublet Interactions. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 5160-5170	2.8	69
79	Molecular recognition and self-assembly special feature: Encapsulated-guest rotation in a self-assembled heterocapsule directed toward a supramolecular gyroscope. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 10444-8	11.5	62
78	Time-resolved detection of melanin free radicals quenching reactive oxygen species. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 11220-1	16.4	60
77	Multiexciton Dynamics Depending on Intramolecular Orientations in Pentacene Dimers: Recombination and Dissociation of Correlated Triplet Pairs. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3354-3360	6.4	53
76	Identifying triplet pathways in dilute pentacene films. <i>Nature Communications</i> , <b>2018</b> , 9, 4222	17.4	50
75	Marcus Free Energy Dependence of the Sign of Exchange Interactions in Radical Ion Pairs Generated by Photoinduced Electron Transfer Reactions. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 1325-1326	16.4	47
74	1D radical motion in protein pocket: proton-coupled electron transfer in human serum albumin. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 4-5	16.4	45
73	Direct Observation of CIDEP Generated through Enhanced Intersystem Crossing. <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 6425-6429		44
72	Initial Molecular Photocurrent: Nanostructure and Motion of Weakly Bound Charge-Separated State in Organic Photovoltaic Interface. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 1589-1599	3.8	41
71	Time-resolved EPR characterization of a folded conformation of photoinduced charge-separated state in porphyrin-fullerene dyad bridged by diphenyldisilane. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 1624-5	16.4	40

70	Theoretical analysis of singlet-triplet energy splitting generated by charge-transfer interaction in electron donor-acceptor radical pair systems. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 465-468	3.9	40
69	Singlet-Fission-Born Quintet State: Sublevel Selections and Trapping by Multiexciton Thermodynamics. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 5855-5861	6.4	39
68	Geometries, Electronic Couplings, and Hole Dissociation Dynamics of Photoinduced Electron-Hole Pairs in Polyhexylthiophene-Fullerene Dyads Rigidly Linked by Oligophenylenes. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 5879-85	16.4	37
67	UVA- and Visible-Light-Mediated Generation of Carbon Radicals from Organochlorides Using Nonmetal Photocatalyst. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 9381-9390	4.2	35
66	Long-range jump versus stepwise hops: magnetic field effects on the charge-transfer fluorescence from photoconductive polymer films. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 4722-3	16.4	30
65	Absolute magnitude of spin polarization in the radical-triplet pair mechanism: CIDEP generation by level crossings in a triplet-doublet interaction. <i>Chemical Physics Letters</i> , <b>1996</b> , 252, 355-361	2.5	30
64	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. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 14621-30	3.4	29
63	Self-Assembled Molecular Gear: A 4:1 Complex of Rh(III)Cl Tetraarylporphyrin and Tetra(p-pyridyl)cavitand. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 12564-77	16.4	28
62	Electron spin polarization generated by transport of singlet and quintet multiexcitons to spin-correlated triplet pairs during singlet fissions. <i>Chemical Science</i> , <b>2020</b> , 11, 2934-2942	9.4	26
61	Exergonic Intramolecular Singlet Fission of an Adamantane-Linked Tetracene Dyad via Twin Quintet Multiexcitons. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 18813-18823	3.8	26
60	Determination of electron-transfer reorganization energy in nanometer-separated radical ion pair by time-resolved EPR spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 9722-3	16.4	26
59	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. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 14720-14727	16.4	25
58	Structure and dynamics of photogenerated triplet radical ion pairs in DNA hairpin conjugates with anthraquinone end caps. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 11251-60	16.4	24
57	Superexchange Electron Tunneling Mediated by Solvent Molecules: Pulsed Electron Paramagnetic Resonance Study on Electronic Coupling in Solvent-Separated Radical Ion Pairs. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 10226-10240	3.4	24
56	Spin-orbit coupling induced electron spin polarization in photoinduced electron transfer reactions. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2001</b> , 2, 17-33	16.4	23
55	The first observation of CIDEP generated through the interaction between an excited singlet oxygen molecule and a free radical. <i>Chemical Physics Letters</i> , <b>1996</b> , 262, 125-130	2.5	23
54	Direct Observation of Charge Collection at Nanometer-Scale Iodide-Rich Perovskites during Halide Exchange Reaction on CHNHPbBr. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 1724-1728	6.4	21
53	Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 639-643	3.6	21

52	Overcoming Coulombic Traps: Geometry and Electronic Characterizations of Light-Induced Separated Spins at the Bulk Heterojunction Interface. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 113-123	6.4	21
51	Quantitative Sequential Photoenergy Conversion Process from Singlet Fission to Intermolecular Two-Electron Transfers Utilizing Tetracene Dimer. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 26-31	20.1	21
50	Time-Resolved EPR Study of Electron-Hole Dissociations Influenced by Alkyl Side Chains at the Photovoltaic Polyalkylthiophene:PCBM Interface. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 30-5	6.4	20
49	Theoretical study of electronic and solvent reorganization associated with a charging process of organic compounds. I. Molecular and atomic level description of solvent reorganization. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 2753-2760	3.9	20
48	Time-Resolved EPR Study on Reorganization Energies for Charge Recombination Processes in Nanometer-Separated Radical Ion Pairs. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 10074-10081	3.4	19
47	Magnetic field and spin effects from sequential p-type and d-type triplet mechanisms. <i>Molecular Physics</i> , <b>2002</b> , 100, 1245-1259	1.7	17
46	Intrinsic Enhancement Factors of the Spin-Orbit Coupling Mechanism Polarization in the Duroquinone,N,N-Dimethylaniline Derivative Systems. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 8078-8083	2.8	16
45	Spin dynamics and zero-field splitting constants of the triplet exciplex generated by photoinduced electron transfer reaction between erythrosin B and duroquinone. <i>Chemical Physics Letters</i> , <b>2002</b> , 360, 13-21	2.5	15
44	Time-resolved EPR study on reorganization energies for charge recombination reactions in the systems involving hydrogen bonding. <i>Chemical Physics Letters</i> , <b>2003</b> , 369, 49-54	2.5	15
43	Quenching Mechanism of Excited Coronene by a Nitroxide Radical Studied by Probing Dynamic Electron Polarization. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 524-531	2.8	15
42	Photoinduced Charge-Transfer State of 4-Carbazoyl-3-(trifluoromethyl)benzoic Acid: Photophysical Property and Application to Reduction of Carbon-Halogen Bonds as a Sensitizer. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 2006-10	4.5	15
41	Transient Electron Spin Polarization Imaging of Heterogeneous Charge-Separation Geometries at Bulk-Heterojunction Interfaces in Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 13472-13481	3.8	14
40	Protein-ligand structure and electronic coupling of photoinduced charge-separated state: 9,10-anthraquinone-1-sulfonate bound to human serum albumin. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 16770-3	16.4	14
39	Conversion of cobalt(II) porphyrin into a helical cobalt(III) complex of acyclic pentapyrrole. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 6583-6	16.4	14
38	Unusually Large Dynamic Electron Polarization in an O <sub>2</sub> (1 <sup>Δ</sup> <sub>g</sub> )-2,2,6,6-Tetramethylpiperidine-1-oxyl Radical System. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 1120-1126	2.8	14
37	Geometries and Terahertz Motions Driving Quintet Multiexcitons and Ultimate Triplet-Triplet Dissociations via the Intramolecular Singlet Fissions. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 9411-9419	3.4	13
36	Regulated Electron Tunneling of Photoinduced Primary Charge-Separated State in the Photosystem II Reaction Center. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 1179-1184	6.4	12
35	Time-Resolved Electron Paramagnetic Resonance Study on Cofactor Geometries and Electronic Couplings after Primary Charge Separations in the Photosynthetic Reaction Center. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 8078-8088	3.8	12

34	Charge-Transfer Character Drives MBius Antiaromaticity in the Excited Triplet State of Twisted [28]Hexaphyrin. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2685-2690	6.4	12
33	CIDEP in radical-singlet molecular oxygen system. <i>Applied Magnetic Resonance</i> , <b>1997</b> , 12, 405-410	0.8	12
32	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. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 11709-11715	3.4	12
31	Solvent effects on the intrinsic enhancement factors of the triplet exciplex generated by photoinduced electron transfer reaction between eosin Y and duroquinone. <i>Molecular Physics</i> , <b>2002</b> , 100, 1413-1420	1.7	12
30	Topotactic Epitaxy of SrTiO3 Mesocrystal Superstructures with Anisotropic Construction for Efficient Overall Water Splitting. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 5383-5387	3.6	11
29	Fast T-Type Photochromism of Colloidal Cu-Doped ZnS Nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2239-2249	16.4	11
28	Time-Resolved ESR Studies on Ketyl Type RadicalAmine Complexes. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 10021-10026		10
27	Manipulation of Charge-Transfer States by Molecular Design: Perspective from Dynamic Exciton□ <i>Accounts of Materials Research</i> , <b>2021</b> , 2, 501-514	7.5	10
26	Diffusion-model analysis of effective CIDEP distance in solvent-separated radical-ion pair. <i>Applied Magnetic Resonance</i> , <b>2003</b> , 23, 269-287	0.8	8
25	Time-resolved ESR spectra of the Hydroxybenzyl-amine complex. <i>Chemical Physics Letters</i> , <b>1993</b> , 215, 203-208	2.5	8
24	Reorganization Energy Induced by Noncovalent Bonding Interaction in Electron Transfer Reactions. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 13255-13257	3.4	7
23	Switching of the Electronic conjugations in the reduction of a dithienylethene-fused p-benzoquinone. <i>RSC Advances</i> , <b>2017</b> , 7, 2403-2406	3.7	6
22	Charge Carrier Dynamics in Sr-Doped NaTaO3 Photocatalysts Revealed by Deep Ultraviolet Single-Particle Microspectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2019</b> ,	3.8	6
21	TiO superstructures with oriented nanospaces: a strategy for efficient and selective photocatalysis. <i>Nanoscale</i> , <b>2020</b> , 12, 6420-6428	7.7	6
20	Conversion of Cobalt(II) Porphyrin into a Helical Cobalt(III) Complex of Acyclic Pentapyrrole. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 6713-6716	3.6	6
19	On Electron Spin Polarization Created in the Excited Triplet State of Accessory Chlorophyll via Photoinduced Charge-Recombination of the Photosystem II Reaction Center. <i>Applied Magnetic Resonance</i> , <b>2010</b> , 37, 177-189	0.8	5
18	Magnetic field effects on the triplet exciplex dynamics in the duroquinone-N,N-dimethylaniline derivative systems. <i>Research on Chemical Intermediates</i> , <b>2001</b> , 27, 155-164	2.8	5
17	Several Orders of Magnitude Difference in Charge-Transfer Kinetics Induced by Localized Trapped Charges on Mixed-Halide Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37057-37066	9.5	5

16	Synergetic Role of Conformational Flexibility and Electronic Coupling for Quantitative Intramolecular Singlet Fission. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 18287-18296	3.8	5
15	Mechanistic Insights into Photochemical Reactions on CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskite Nanoparticles from Single-Particle Photoluminescence Spectroscopy. <i>ChemNanoMat</i> , <b>2019</b> , 5, 340-345	3.5	4
14	Enthalpy-Entropy Compensation Effect for Triplet Pair Dissociation of Intramolecular Singlet Fission in Phenylene Spacer-Bridged Hexacene Dimers. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 6457-6463	6.4	4
13	Organic photostimulated luminescence associated with persistent spin-correlated radical pairs. <i>Communications Materials</i> , <b>2021</b> , 2,	6	4
12	Molecular Design Strategy for High-Yield and Long-Lived Individual Doubled Triplet Excitons through Intramolecular Singlet Fission. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 390-400	20.1	4
11	Control of the sign of exchange interactions in solvent-separated radical ion pairs. <i>Applied Magnetic Resonance</i> , <b>2004</b> , 26, 145-154	0.8	3
10	Time Resolved EPR Study on the Photoinduced Long-Range Charge-Separated State in Protein: Electron Tunneling Mediated by Arginine Residue in Human Serum Albumin. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 4365-72	3.4	3
9	Identification of a Self-Photosensitizing Hydrogen Atom Transfer Organocatalyst System.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	3
8	Time-Resolved EPR Study on Photoinduced Charge-Transfer Trap State in Thiophene-Thiazolothiazole Copolymer Film. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , <b>2017</b> , 30, 551-555	0.7	2
7	Aspects of the Electron Transfer Reaction Rate for Systems Accompanying a Chemical Equilibrium Change. <i>Bulletin of the Chemical Society of Japan</i> , <b>2004</b> , 77, 1997-2001	5.1	2
6	Structural Dynamics of Lipid Bilayer Membranes Explored by Magnetic Field Effect Based Fluorescence Microscopy. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 10896-10902	3.4	2
5	Morphology Effect on Geometry of Photoinduced Charge-Separated State in P3HT:PCBM Blend Films as Studied by Time-Resolved EPR Spectroscopy. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , <b>2016</b> , 29, 561-564	0.7	1
4	Time-Resolved EPR Study on Singlet-Fission Induced Quintet Generation and Subsequent Triplet Dissociation in TIPS-Phenyl-Tetracene Aggregates. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , <b>2018</b> , 31, 163-167	0.7	1
3	Long-Range Interfacial Electronic Coupling in Organic Photovoltaic Interface Studied by Time-Resolved Paramagnetic Resonance Spectroscopy. <i>Hyomen Kagaku</i> , <b>2014</b> , 35, 621-626		
2	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. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 633-8	2.8	
1	Unraveling Hidden Correlations between Molecular Diffusivity and Reactivity in Ruthenium Complex-Modified Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 21502-21511	3.8	