

# Yasuhiro Kobori

## List of Publications by Year in descending order

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98  
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citations

172457

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105  
docs citations

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times ranked

2917  
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#	ARTICLE	IF	CITATIONS
1	Crystal-Face-Dependent Charge Dynamics on a BiVO <sub>4</sub> Photocatalyst Revealed by Single-Particle Spectroelectrochemistry. <i>ACS Catalysis</i> , 2016, 6, 2250-2256.	11.2	124
2	Surface Charge Trapping in Organolead Halide Perovskites Explored by Single-Particle Photoluminescence Imaging. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3195-3201.	4.6	105
3	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> , 1999, 103, 5416-5424.	2.5	104
4	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> , 2005, 102, 8978-8983.	7.1	99
5	Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 629-633.	13.8	94
6	Topotactic Epitaxy of SrTiO <sub>3</sub> Mesocrystal Superstructures with Anisotropic Construction for Efficient Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5299-5303.	13.8	92
7	Primary charge-recombination in an artificial photosynthetic reaction center. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10017-10022.	7.1	85
8	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
9	Multiexciton Dynamics Depending on Intramolecular Orientations in Pentacene Dimers: Recombination and Dissociation of Correlated Triplet Pairs. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3354-3360.	4.6	73
10	Identifying triplet pathways in dilute pentacene films. <i>Nature Communications</i> , 2018, 9, 4222.	12.8	71
11	Time-Resolved Detection of Melanin Free Radicals Quenching Reactive Oxygen Species. <i>Journal of the American Chemical Society</i> , 2005, 127, 11220-11221.	13.7	69
12	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> , 2009, 106, 10444-10448.	7.1	66
13	UVA- and Visible-Light-Mediated Generation of Carbon Radicals from Organochlorides Using Nonmetal Photocatalyst. <i>Journal of Organic Chemistry</i> , 2018, 83, 9381-9390.	3.2	57
14	Singlet-Fission-Born Quintet State: Sublevel Selections and Trapping by Multiexciton Thermodynamics. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5855-5861.	4.6	55
15	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> , 1998, 120, 1325-1326.	13.7	49
16	1D Radical Motion in Protein Pocket: Proton-Coupled Electron Transfer in Human Serum Albumin. <i>Journal of the American Chemical Society</i> , 2006, 128, 4-5.	13.7	48
17	Initial Molecular Photocurrent: Nanostructure and Motion of Weakly Bound Charge-Separated State in Organic Photovoltaic Interface. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1589-1599.	3.1	48
18	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> , 2016, 138, 5879-5885.	13.7	46

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19	Direct Observation of CIDEP Generated through Enhanced Intersystem Crossing. <i>The Journal of Physical Chemistry</i> , 1994, 98, 6425-6429.	2.9	45
20	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> , 2009, 131, 1624-1625.	13.7	45
21	Electron spin polarization generated by transport of singlet and quintet multiexcitons to spin-correlated triplet pairs during singlet fissions. <i>Chemical Science</i> , 2020, 11, 2934-2942.	7.4	44
22	Manipulation of Charge-Transfer States by Molecular Design: Perspective from "Dynamic Exciton". <i>Accounts of Materials Research</i> , 2021, 2, 501-514.	11.7	42
23	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> , 2000, 113, 465-468.	3.0	40
24	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> , 2010, 114, 14621-14630.	2.6	40
25	Exergonic Intramolecular Singlet Fission of an Adamantane-Linked Tetracene Dyad via Twin Quintet Multiexcitons. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18813-18823.	3.1	39
26	Self-Assembled Molecular Gear: A 4:1 Complex of Rh(III)Cl Tetraarylporphyrin and Tetra(2-pyridyl)cavitand. <i>Journal of the American Chemical Society</i> , 2016, 138, 12564-12577.	13.7	36
27	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> , 1996, 252, 355-361.	2.6	35
28	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> , 2003, 125, 4722-4723.	13.7	35
29	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> , 2012, 134, 11251-11260.	13.7	34
30	Quantitative Sequential Photoenergy Conversion Process from Singlet Fission to Intermolecular Two-Electron Transfers Utilizing Tetracene Dimer. <i>ACS Energy Letters</i> , 2019, 4, 26-31.	17.4	32
31	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> , 2019, 141, 14720-14727.	13.7	30
32	Fast T-Type Photochromism of Colloidal Cu-Doped ZnS Nanocrystals. <i>Journal of the American Chemical Society</i> , 2021, 143, 2239-2249.	13.7	29
33	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> , 2001, 123, 9722-9723.	13.7	28
34	The first observation of CIDEP generated through the interaction between an excited singlet oxygen molecule and a free radical. <i>Chemical Physics Letters</i> , 1996, 262, 125-130.	2.6	27
35	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> , 2004, 108, 10226-10240.	2.6	27
36	Direct Observation of Charge Collection at Nanometer-Scale Iodide-Rich Perovskites during Halide Exchange Reaction on CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> . <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1724-1728.	4.6	26

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37	Geometries and Terahertz Motions Driving Quintet Multiexcitons and Ultimate Triplet $\rightarrow$ Triplet Dissociations via the Intramolecular Singlet Fissions. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9411-9419.	2.6	26
38	Time-Resolved EPR Study of Electron $\rightarrow$ Hole Dissociations Influenced by Alkyl Side Chains at the Photovoltaic Polyalkylthiophene:PCBM Interface. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 30-35.	4.6	25
39	Overcoming Coulombic Traps: Geometry and Electronic Characterizations of Light-Induced Separated Spins at the Bulk Heterojunction Interface. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 113-123.	4.6	25
40	Spin-orbit coupling induced electron spin polarization in photoinduced electron transfer reactions. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2001, 2, 17-33.	11.6	24
41	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> , 2003, 119, 2753-2760.	3.0	21
42	Synergetic Role of Conformational Flexibility and Electronic Coupling for Quantitative Intramolecular Singlet Fission. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18287-18296.	3.1	21
43	Time-Resolved EPR Study on Reorganization Energies for Charge Recombination Processes in Nanometer-Separated Radical Ion Pairs. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10074-10081.	2.6	20
44	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> , 2019, 123, 13472-13481.	3.1	20
45	Identification of a Self-Photosensitizing Hydrogen Atom Transfer Organocatalyst System. <i>Journal of the American Chemical Society</i> , 2022, 144, 6566-6574.	13.7	19
46	Photoinduced Charge $\rightarrow$ Transfer State of 4 $\rightarrow$ Carbazoly $\rightarrow$ (trifluoromethyl)benzoic Acid: Photophysical Property and Application to Reduction of Carbon $\rightarrow$ Halogen Bonds as a Sensitizer. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2006-2010.	3.3	18
47	Magnetic field and spin effects from sequential p-type and d-type triplet mechanisms. <i>Molecular Physics</i> , 2002, 100, 1245-1259.	1.7	17
48	Unusually Large Dynamic Electron Polarization in an O <sub>2</sub> (1 $\rightarrow$ g) $\rightarrow$ 2,2,6,6-Tetramethylpiperidine-1-oxyl Radical System. <i>Journal of Physical Chemistry A</i> , 2004, 108, 1120-1126.	2.5	17
49	Protein $\rightarrow$ 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> , 2011, 133, 16770-16773.	13.7	17
50	Conversion of Cobalt(II) Porphyrin into a Helical Cobalt(III) Complex of Acyclic Pentapyrrole. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6583-6586.	13.8	17
51	Intrinsic Enhancement Factors of the Spin $\rightarrow$ Orbit Coupling Mechanism Polarization in the Duroquinone $\rightarrow$ N,N-Dimethylaniline Derivative Systems. <i>Journal of Physical Chemistry A</i> , 1998, 102, 8078-8083.	2.5	16
52	Time-resolved EPR study on reorganization energies for charge recombination reactions in the systems involving hydrogen bonding. <i>Chemical Physics Letters</i> , 2003, 369, 49-54.	2.6	16
53	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
54	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> , 2015, 119, 8078-8088.	3.1	16

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55	Regulated Electron Tunneling of Photoinduced Primary Charge-Separated State in the Photosystem II Reaction Center. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1179-1184.	4.6	16
56	Charge-Transfer Character Drives Möbius Antiaromaticity in the Excited Triplet State of Twisted [28]Hexaphyrin. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2685-2690.	4.6	16
57	Molecular Design Strategy for High-Yield and Long-Lived Individual Doubled Triplet Excitons through Intramolecular Singlet Fission. <i>ACS Energy Letters</i> , 2022, 7, 390-400.	17.4	16
58	CIDEP in radical-singlet molecular oxygen system. <i>Applied Magnetic Resonance</i> , 1997, 12, 405-410.	1.2	15
59	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> , 2002, 360, 13-21.	2.6	15
60	Topotactic Epitaxy of SrTiO <sub>3</sub> Mesocrystal Superstructures with Anisotropic Construction for Efficient Overall Water Splitting. <i>Angewandte Chemie</i> , 2017, 129, 5383-5387.	2.0	14
61	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> , 2004, 108, 11709-11715.	2.6	13
62	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> , 2021, 12, 6457-6463.	4.6	13
63	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> , 2002, 100, 1413-1420.	1.7	12
64	Time-Resolved ESR Studies on Ketyl Type Radical-Amine Complexes. <i>The Journal of Physical Chemistry</i> , 1996, 100, 10021-10026.	2.9	10
65	Time-resolved ESR spectra of the $\hat{\pm}$ -hydroxybenzyl-amine complex. <i>Chemical Physics Letters</i> , 1993, 215, 203-208.	2.6	8
66	Diffusion-model analysis of effective CIDEP distance in solvent-separated radical-ion pair. <i>Applied Magnetic Resonance</i> , 2003, 23, 269-287.	1.2	8
67	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> , 2016, 120, 4365-4372.	2.6	8
68	TiO <sub>2</sub> superstructures with oriented nanospaces: a strategy for efficient and selective photocatalysis. <i>Nanoscale</i> , 2020, 12, 6420-6428.	5.6	8
69	Microscopic Structures, Dynamics, and Spin Configuration of the Charge Carriers in Organic Photovoltaic Solar Cells Studied by Advanced Time-Resolved Spectroscopic Methods. <i>Langmuir</i> , 2022, 38, 7365-7382.	3.5	8
70	Reorganization Energy Induced by Noncovalent Bonding Interaction in Electron Transfer Reactions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13255-13257.	2.6	7
71	Charge Carrier Dynamics in Sr-Doped NaTaO <sub>3</sub> Photocatalysts Revealed by Deep Ultraviolet Single-Particle Microspectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, , .	3.1	7
72	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> , 2010, 37, 177-189.	1.2	6

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73	Switching of the $\pi$ -electronic conjugations in the reduction of a dithienylethene-fused p-benzoquinone. <i>RSC Advances</i> , 2017, 7, 2403-2406.	3.6	6
74	Organic photostimulated luminescence associated with persistent spin-correlated radical pairs. <i>Communications Materials</i> , 2021, 2, .	6.9	6
75	Orientations and water dynamics of photoinduced secondary charge-separated states for magnetoreception by cryptochrome. <i>Communications Chemistry</i> , 2021, 4, .	4.5	6
76	Magnetic field effects on the triplet exciplex dynamics in the duroquinone-N,N-dimethylaniline derivative systems. <i>Research on Chemical Intermediates</i> , 2001, 27, 155-164.	2.7	5
77	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> , 2018, 10, 37057-37066.	8.0	5
78	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> , 2019, 5, 340-345.	2.8	5
79	Photochromism of colloidal ZnO nanocrystal powders under ambient conditions. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 1781-1791.	2.9	5
80	Control of the sign of exchange interactions in solvent-separated radical ion pairs. <i>Applied Magnetic Resonance</i> , 2004, 26, 145-154.	1.2	3
81	Aspects of the Electron Transfer Reaction Rate for Systems Accompanying a Chemical Equilibrium Change. <i>Bulletin of the Chemical Society of Japan</i> , 2004, 77, 1997-2001.	3.2	2
82	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> , 2016, 29, 561-564.	0.3	2
83	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> , 2017, 30, 551-555.	0.3	2
84	Structural Dynamics of Lipid Bilayer Membranes Explored by Magnetic Field Effect Based Fluorescence Microscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10896-10902.	2.6	2
85	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> , 2018, 31, 163-167.	0.3	1
86	Unraveling Hidden Correlations between Molecular Diffusivity and Reactivity in Ruthenium Complex-Modified Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21502-21511.	3.1	1
87	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> , 2009, 113, 633-638.	2.5	0
88	Long-Range Interfacial Electronic Coupling in Organic Photovoltaic Interface Studied by Time-Resolved Paramagnetic Resonance Spectroscopy. <i>Hyomen Kagaku</i> , 2014, 35, 621-626.	0.0	0
89	(Invited) Tetracene Molecular Architectures for High-Yield and Long-Lived Individual Triplet States through Singlet Fission. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 726-726.	0.0	0
90	(Invited) Vibronic Effect of Donor-Acceptor Interaction Determines Fate of Multiexciton Spins Generated By Singlet Fission. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 723-723.	0.0	0

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91	(Invited) Time-Resolved EPR Study on Charge Dynamics of Electron-Hole Pairs in Lead Iodide Perovskite Thin Film. ECS Meeting Abstracts, 2017, , .	0.0	0
92	Geometries and Dynamics of Photoinduced Electron-Hole Pairs in Polyhexylthiophene-Fullerene Systems. ECS Meeting Abstracts, 2017, , .	0.0	0
93	(Invited) Time Resolved EPR Study on Photoinduced Charge-Transfer Trap States in Thiophene-Thiazolothiazole Copolymers Films. ECS Meeting Abstracts, 2018, , .	0.0	0
94	(Invited) Transient Electron Spin Polarization Imaging of Photoinduced Interfacial Charge Separation Geometries in Organic Photovoltaic Cell. ECS Meeting Abstracts, 2019, , .	0.0	0
95	(Invited) Geometry and Dynamics of Quintet Multiexciton Studied By Time-Resolved EPR. ECS Meeting Abstracts, 2019, , .	0.0	0
96	(Invited) Electron Spin Polarization Generated by Transport of Spin-Entanglements in Singlet Fissions. ECS Meeting Abstracts, 2020, MA2020-01, 882-882.	0.0	0
97	(Invited) High-Yield and Long-Lived Individual Triplet Exciton Generation Using Covalently-Linked Tetracene Dimers through Intramolecular Singlet Fission. ECS Meeting Abstracts, 2022, MA2022-01, 894-894.	0.0	0
98	(Invited) Conformations of Exciton Pairs Associated with Spin-Entanglement Transports during Singlet Fissions. ECS Meeting Abstracts, 2022, MA2022-01, 884-884.	0.0	0