Yutaka Shibata

List of Publications by Year
in descending order

68 papers	2,250 citations	236925 25 h-index	223800 46 g-index
71 all docs	71 docs citations	71 times ranked	1965 citing authors

#	Article	IF	Citations
1	Recent advances in single-molecule spectroscopy studies on light-harvesting processes in oxygenic photosynthesis. Biophysics and Physicobiology, 2022, 19, n/a.	1.0	3
2	Fluctuating Energy-Transfer Pathway of Photosynthetic Antenna Systems Observed by Single-Molecule Fluorescence Spectroscopy. Seibutsu Butsuri, 2021, 61, 023-026.	0.1	1
3	High-Speed Excitation-Spectral Microscopy Uncovers In Situ Rearrangement of Light-Harvesting Apparatus in <i>Chlamydomonas</i> during State Transitions at Submicron Precision. Plant and Cell Physiology, 2021, 62, 872-882.	3.1	9
4	Development of a Multicolor Line-Focus Microscope for Rapid Acquisitions of Excitation Spectra. Biophysical Journal, 2020, 118, 36-43.	0.5	9
5	AÂgold nanoparticle conjugate with photosystemÂI and photosystemÂII for development of a biohybrid water-splitting photocatalyst. Biomedical Spectroscopy and Imaging, 2020, 9, 73-81.	1.2	2
6	Identification of assembly precursors to photosystems emitting fluorescence at 683â€¯nm and 687â€¯nm by cryogenic fluorescence microspectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 148090.	1.0	1
7	Janus Particles: Enhanced Fluorescence Emission and Magnetic Alignment Control of Biphasic Functionalized Composite Janus Particles (Part. Part. Syst. Charact. 1/2019). Particle and Particle Systems Characterization, 2019, 36, 1970002.	2.3	0
8	Redox-state dependent blinking of single photosystem I trimers at around liquid-nitrogen temperature. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 30-40.	1.0	8
9	Enhanced Fluorescence Emission and Magnetic Alignment Control of Biphasic Functionalized Composite Janus Particles. Particle and Particle Systems Characterization, 2019, 36, 1800311.	2.3	6
10	Inâ€…Vivo Energy Transfer from Bacteriochlorophyllâ€…<i>c</i>, <i>d</i>, <i>e</i>, or <i>f</i> to Bacteriochlorophyllâ€…<i>a</i> in Wildâ€Type and Mutant Cells of the Green Sulfur Bacterium <i>Chlorobaculum limnaeum</i>. ChemPhotoChem, 2018, 2, 190-195.	3.0	23
11	Red shift in the spectrum of a chlorophyll species is essential for the drought-induced dissipation of excess light energy in a poikilohydric moss, Bryum argenteum. Photosynthesis Research, 2018, 136, 229-243.	2.9	5
12	Fabrication of Au-Conjugated Polymer Hybridized Nanoparticles and Their Optical Properties. E-Journal of Surface Science and Nanotechnology, 2018, 16, 436-439.	0.4	2
13	Imaging of intracellular rearrangement of photosynthetic proteins in Chlamydomonas cells upon state transition. Journal of Photochemistry and Photobiology B: Biology, 2018, 185, 111-116.	3.8	8
14	Highly Enhanced Emission of Visible Light from Coreâ€“Dualâ€Shellâ€Type Hybridized Nanoparticles. Particle and Particle Systems Characterization, 2017, 34, 1700258.	2.3	11
15	Fluorescence property of photosystem II protein complexes bound to a gold nanoparticle. Faraday Discussions, 2017, 198, 121-134.	3.2	8
16	Structure-Based Modeling of Fluorescence Kinetics of PhotosystemÂII: Relation between Its Dimeric Form and Photoregulation. Journal of Physical Chemistry B, 2016, 120, 365-376.	2.6	16
17	Scrambled Selfâ€Assembly of Bacteriochlorophylls <i>c</i> and <i>e</i> in Aqueous Triton Xâ€100 Micelles. Photochemistry and Photobiology, 2014, 90, 552-559.	2.5	8
18	Development of a novel cryogenic microscope with numerical aperture of 0.9 and its application to photosynthesis research. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 880-887.	1.0	14

#	Article	IF	Citations
19	Two types of fucoxanthin-chlorophyll-binding proteins I tightly bound to the photosystem I core complex in marine centric diatoms. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 529-539.	1.0	37
20	Study of cell-differentiation and assembly of photosynthetic proteins during greening of etiolated Zea mays leaves using confocal fluorescence microspectroscopy at liquid-nitrogen temperature. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 520-528.	1.0	5
21	Photosystem II Does Not Possess a Simple Excitation Energy Funnel: Time-Resolved Fluorescence Spectroscopy Meets Theory. Journal of the American Chemical Society, 2013, 135, 6903-6914.	13.7	107
22	Arabitol Provided by Lichenous Fungi Enhances Ability to Dissipate Excess Light Energy in a Symbiotic Green Alga under Desiccation. Plant and Cell Physiology, 2013, 54, 1316-1325.	3.1	33
23	Lichens Assist the Drought-Induced Fluorescence Quenching of Their Photobiont Green Algae Through Arabitol. Advanced Topics in Science and Technology in China, 2013, , 514-517.	0.1	2
24	Supramolecular energy transfer from photoexcited chlorosomal zinc porphyrin self-aggregates to a chlorin or bacteriochlorin monomer as models of main light-harvesting antenna systems in green photosynthetic bacteria. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5218-5221.	2.2	20
25	Multiple dissipation components of excess light energy in dry lichen revealed by ultrafast fluorescence study at 5ÂK. Photosynthesis Research, 2011, 110, 39-48.	2.9	20
26	Intramolecular Excitation Energy Transfer from Visible-light Absorbing Chlorophyll Derivatives to a Near-infrared-light Emitting Boron Dipyrromethene Moiety. Chemistry Letters, 2010, 39, 953-955.	1.3	25
27	Linearly polarized light absorption spectra of chlorosomes, light-harvesting antennas of photosynthetic green sulfur bacteria. Chemical Physics Letters, 2010, 484, 333-337.	2.6	18
28	Mechanism of strong quenching of photosystem II chlorophyll fluorescence under drought stress in a lichen, Physciella melanchla, studied by subpicosecond fluorescence spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 331-338.	1.0	51
29	Spectral properties of single light-harvesting complexes in bacterial photosynthesis. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2010, 11, 15-24.	11.6	171
30	Kinetically Distinct Three Red Chlorophylls in Photosystem I of <i>Thermosynechococcus elongatus</i> Revealed by Femtosecond Time-Resolved Fluorescence Spectroscopy at 15 K. Journal of Physical Chemistry B, 2010, 114, 2954-2963.	2.6	28
31	Shallow Sink in an Antenna Pigment System of Photosystem I of a Marine Centric Diatom, Chaetoceros gracilis, Revealed by Ultrafast Fluorescence Spectroscopy at 17 K. Journal of Physical Chemistry B, 2010, 114, 9031-9038.	2.6	14
32	Intensity Borrowing via Excitonic Couplings among Soret and Q_{<i>y</i>} Transitions of Bacteriochlorophylls in the Pigment Aggregates of Chlorosomes, the Light-Harvesting Antennae of Green Sulfur Bacteria. Biochemistry, 2010, 49, 7504-7515.	2.5	21
33	Anisotropic distribution of emitting transition dipoles in chlorosome from Chlorobium tepidum: fluorescence polarization anisotropy study of single chlorosomes. Photosynthesis Research, 2009, 100, 67-78.	2.9	26
34	Acceleration of Electron-Transfer-Induced Fluorescence Quenching upon Conversion to the Signaling State in the Blue-Light Receptor, TePixD, from <i>Thermosynechococcus elongatus</i>. Journal of Physical Chemistry B, 2009, 113, 8192-8198.	2.6	21
35	Covalently linked zinc chlorophyll dimers as a model of a chlorophyllous pair in photosynthetic reaction centers. Photochemical and Photobiological Sciences, 2008, 7, 1231.	2.9	20
36	Temperature-Dependent Energy Gap of the Primary Charge Separation in Photosystem I: Study of Delayed Fluorescence at 77â^268 K. Journal of Physical Chemistry B, 2008, 112, 6695-6702.	2.6	3

#	Article	IF	Citations
37	3P-270 Sharp zero-phonon lines in fluorescence spectra of single antenna complexes, chlorosomes at cryogenic temperature(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S169.	0.1	0
38	Polarized Fluorescence of Aggregated Bacteriochlorophyllcand Baseplate Bacteriochlorophyllain Single Chlorosomes Isolated fromChloroflexus aurantiacusâ€. Biochemistry, 2007, 46, 7062-7068.	2.5	31
39	Direct Counting of Submicrometer-Sized Photosynthetic Apparatus Dispersed in Medium at Cryogenic Temperature by Confocal Laser Fluorescence Microscopy:â€‰ Estimation of the Number of Bacteriochlorophyll <i>c</i> in Single Light-Harvesting Antenna Complexes Chlorosomes of Green Photosynthetic Bacteria. Journal of Physical Chemistry B, 2007, 111, 12605-12609.	2.6	50
40	Energy and electron transfer in the photosynthetic reaction center complex of Acidiphilium rubrum containing Zn-bacteriochlorophyll a studied by femtosecond up-conversion spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 22-30.	1.0	17
41	Excited-state dynamics of normal and doubly N-confused type hexaphyrin derivatives studied by time-resolved fluorescence measurements. Chemical Physics Letters, 2007, 443, 274-279.	2.6	9
42	Simultaneous Time Resolution of the Emission Spectra of Fluorescent Proteins and Zooxanthellar Chlorophyll in Reef-building Corals Â¶â€. Photochemistry and Photobiology, 2007, 77, 515-523.	2.5	3
43	Low-Temperature Fluorescence from Single Chlorosomes, Photosynthetic Antenna Complexes of Green Filamentous and Sulfur Bacteria. Biophysical Journal, 2006, 91, 3787-3796.	0.5	32
44	A new fluorescence band F689 in photosystem II revealed by picosecond analysis at 4â€“77ÂK: Function of two terminal energy sinks F689 and F695 in PS II. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 1657-1668.	1.0	46
45	Function of Membrane Protein in Silica Nanopores:â€‰ Incorporation of Photosynthetic Light-Harvesting Protein LH2 into FSM. Journal of Physical Chemistry B, 2006, 110, 1114-1120.	2.6	48
46	Fate Determination of the Flavin Photoreceptions in the Cyanobacterial Blue Light Receptor TePixD (Tll0078). Journal of Molecular Biology, 2006, 363, 10-18.	4.2	60
47	Femtosecond fluorescence spectroscopy and near-field spectroscopy of water-soluble tetra(4-sulfonatophenyl)porphyrin and its J-aggregate. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 178, 192-200.	3.9	35
48	Excitation energy transfer in individual light-harvesting chlorosome from green photosynthetic bacterium Chloroflexus aurantiacus at cryogenic temperature. Chemical Physics Letters, 2005, 409, 34-37.	2.6	12
49	Biochemical and Functional Characterization of BLUF-Type Flavin-Binding Proteins of Two Species of Cyanobacteria. Journal of Biochemistry, 2005, 137, 741-750.	1.7	128
50	Primary Intermediate in the Photocycle of a Blue-Light Sensory BLUF FAD-Protein, Tll0078, ofThermosynechococcus elongatusBP-1â€. Biochemistry, 2005, 44, 5149-5158.	2.5	75
51	Nanoscale Organization of Chlorophyllain Mesoporous Silica:Â Efficient Energy Transfer and Stabilized Charge Separation as in Natural Photosynthesis. Journal of Physical Chemistry B, 2004, 108, 13683-13687.	2.6	50
52	Ultrafast Charge Separation from the S2Excited State of Directly Linked Porphyrinâˆ’Imide Dyads:Â First Unequivocal Observation of the Whole Bell-Shaped Energy-Gap Law and Its Solvent Dependencies. Journal of Physical Chemistry A, 2002, 106, 12191-12201.	2.5	87
53	Ultrafast photoinduced reaction dynamics of photoactive yellow protein (PYP): observation of coherent oscillations in the femtosecond fluorescence decay dynamics. Chemical Physics Letters, 2002, 352, 220-225.	2.6	48
54	Time-Resolved Hole-Burning Study on Myoglobin: Fluctuation of Restricted Water within Distal Pocket. Biophysical Journal, 2001, 80, 1013-1023.	0.5	9

#	Article	IF	Citations
55	First Unequivocal Observation of the Whole Bell-Shaped Energy Gap Law in Intramolecular Charge Separation from S2Excited State of Directly Linked Porphyrinâˆ'Imide Dyads and Its Solvent-Polarity Dependencies. Journal of the American Chemical Society, 2001, 123, 12422-12423.	13.7	99
56	Excited-state dynamics of rhodopsin probed by femtosecond fluorescence spectroscopy. Chemical Physics Letters, 2001, 334, 271-276.	2.6	94
57	Intramolecular energy relaxation and competing electron transfer in porphyrin-acceptor supermolecule systems. Journal of Luminescence, 2000, 87-89, 757-759.	3.1	2
58	Dynamics and Mechanisms of Ultrafast Fluorescence Quenching Reactions of Flavin Chromophores in Protein Nanospace. Journal of Physical Chemistry B, 2000, 104, 10667-10677.	2.6	133
59	Internal Conversion and Vibronic Relaxation from Higher Excited Electronic State of Porphyrins:Â Femtosecond Fluorescence Dynamics Studies. Journal of Physical Chemistry B, 2000, 104, 4001-4004.	2.6	120
60	Effects of Modification of Protein Nanospace Structure and Change of Temperature on the Femtosecond to Picosecond Fluorescence Dynamics of Photoactive Yellow Protein. Journal of Physical Chemistry B, 2000, 104, 5191-5199.	2.6	65
61	Solvent Effects on Conformational Dynamics of Zn-Substituted Myoglobin Observed by Time-Resolved Hole-Burning Spectroscopyâ€. Biochemistry, 1999, 38, 1789-1801.	2.5	25
62	Conformational Fluctuation of Native-Like and Molten-Globule-Like Cytochrome c Observed by Time-Resolved Hole Burningâ€. Biochemistry, 1999, 38, 1802-1810.	2.5	14
63	Determination of Qx- and Qy- absorption bands of Zn-porphyrin derivatives contained in proteins by hole-burning spectroscopy. Chemical Physics Letters, 1998, 284, 115-120.	2.6	10
64	Environmental Effects on the Femtosecondâˆ'Picosecond Fluorescence Dynamics of Photoactive Yellow Protein:Â Chromophores in Aqueous Solutions and in Protein Nanospaces Modified by Site-Directed Mutagenesis. Journal of Physical Chemistry B, 1998, 102, 7695-7698.	2.6	61
65	Rhodopsin Emission in Real Time:Â A New Aspect of the Primary Event in Vision. Journal of the American Chemical Society, 1998, 120, 9706-9707.	13.7	67
66	Real-Time Observation of Conformational Fluctuations in Zn-Substituted Myoglobin by Time-Resolved Transient Hole-Burning Spectroscopy. Biophysical Journal, 1998, 75, 521-527.	0.5	26
67	Structural relaxations in H2â€substituted myoglobin observed by temperatureâ€cycling hole burning. Journal of Chemical Physics, 1996, 104, 4396-4405.	3.0	21
68	Two-Level Systems in Myoglobin Probed by Non-Lorentzian Hole Broadening in a Temperature-Cycling Experiment. Physical Review Letters, 1995, 74, 4349-4352.	7.8	16