Yukihiro Kimura

List of Publications by Year
in descending order

47	1,097	393982 19	414034 32
papers	citations	h-index	g-index

47	47	47	517
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Changes of Low-Frequency Vibrational Modes Induced by Universal15N- and13C-Isotope Labeling in S2/S1FTIR Difference Spectrum of Oxygen-Evolving Complexâ€. Biochemistry, 2003, 42, 13170-13177.	1.2	71
2	Calcium Ions Are Involved in the Unusual Red Shift of the Light-harvesting 1 Qy Transition of the Core Complex in Thermophilic Purple Sulfur Bacterium Thermochromatium tepidum. Journal of Biological Chemistry, 2008, 283, 13867-13873.	1.6	70
3	Structural Changes of D1 C-terminal Î±-Carboxylate during S-state Cycling in Photosynthetic Oxygen Evolution. Journal of Biological Chemistry, 2005, 280, 2078-2083.	1.6	62
4	Purification, characterization and crystallization of the core complex from thermophilic purple sulfur bacterium Thermochromatium tepidum. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 1057-1063.	0.5	60
5	Examination of molecular mechanism for the enhanced thermal stability of anthocyanins by metal cations and polysaccharides. Food Chemistry, 2014, 143, 452-458.	4.2	55
6	Calcium Ions Are Required for the Enhanced Thermal Stability of the Light-harvesting-Reaction Center Core Complex from Thermophilic Purple Sulfur Bacterium Thermochromatium tepidum. Journal of Biological Chemistry, 2009, 284, 93-99.	1.6	53
7	Chelator-Induced Disappearance of Carboxylate Stretching Vibrational Modes in S2/S1 FTIR Spectrum in Oxygen-Evolving Complex of Photosystem II. Biochemistry, 2001, 40, 14061-14068.	1.2	45
8	Characteristic Changes of the S2/S1Difference FTIR Spectrum Induced by Ca2+Depletion and Metal Cation Substitution in the Photosynthetic Oxygen-Evolving Complexâ€. Biochemistry, 2002, 41, 5844-5853.	1.2	44
9	FTIR Detection of Structural Changes in a Histidine Ligand during S-State Cycling of Photosynthetic Oxygen-Evolving Complexâ€. Biochemistry, 2005, 44, 16072-16078.	1.2	44
10	Water-Sensitive Low-Frequency Vibrations of Reaction Intermediates during S-State Cycling in Photosynthetic Water Oxidationâ€. Biochemistry, 2005, 44, 7613-7622.	1.2	37
11	Changes in Structural and Functional Properties of Oxygen-evolving Complex Induced by Replacement of D1-Glutamate 189 with Glutamine in Photosystem II. Journal of Biological Chemistry, 2005, 280, 37895-37900.	1.6	36
12	Excitation Dynamics of Two Spectral Forms of the Core Complexes from Photosynthetic Bacterium Thermochromatium tepidum. Biophysical Journal, 2008, 95, 3349-3357.	0.2	36
13	Cryo-EM structure of a Ca2+-bound photosynthetic LH1-RC complex containing multiple Î±Î²-polypeptides. Nature Communications, 2020, 11, 4955.	5.8	35
14	Structural Basis for the Unusual Q_y Red-Shift and Enhanced Thermostability of the LH1 Complex from Thermochromatium tepidum. Biochemistry, 2016, 55, 6495-6504.	1.2	34
15	Metal cations modulate the bacteriochlorophyllâ€“protein interaction in the light-harvesting 1 core complex from Thermochromatium tepidum. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1022-1029.	0.5	27
16	Specific Ca²⁺â€binding motif in the LH1 complex from photosynthetic bacterium Thermochromatiumâ€ƒtepidum as revealed by optical spectroscopy and structural modeling. FEBS Journal, 2009, 276, 1739-1749.	2.2	26
17	Effects of Calcium Ions on the Thermostability and Spectroscopic Properties of the LH1-RC Complex from a New Thermophilic Purple Bacterium Allochromatium tepidum. Journal of Physical Chemistry B, 2017, 121, 5025-5032.	1.2	23
18	A Dual Role for Ca²⁺ in Expanding the Spectral Diversity and Stability of Light-Harvesting 1 Reaction Center Photocomplexes of Purple Phototrophic Bacteria. Biochemistry, 2019, 58, 2844-2852.	1.2	23

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19	Probing structureâ€“function relationships in early events in photosynthesis using a chimeric photocomplex. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10906-10911.	3.3	22
20	Cryo-EM Structure of the Photosynthetic LH1-RC Complex from Rhodospirillum rubrum. Biochemistry, 2021, 60, 2483-2491.	1.2	21
21	A previously unrecognized membrane protein in the Rhodobacter sphaeroides LH1-RC photocomplex. Nature Communications, 2021, 12, 6300.	5.8	21
22	Studies on photosynthetic oxygen-evolving complex by means of Fourier transform infrared spectroscopy: calcium and chloride cofactors. Photosynthesis Research, 2005, 84, 245-250.	1.6	20
23	Structure Analysis and Comparative Characterization of the Cytochrome câ€² and Flavocytochrome c from Thermophilic Purple Photosynthetic Bacterium Thermochromatium tepidum. Biochemistry, 2012, 51, 6556-6567.	1.2	18
24	Overexpression, characterization, and crystallization of the functional domain of cytochrome c z from Chlorobium tepidum. Photosynthesis Research, 2009, 102, 77-84.	1.6	15
25	ATRâ€“FTIR Detection of Metal-Sensitive Structural Changes in the Light-Harvesting 1 Reaction Center Complex from the Thermophilic Purple Sulfur Bacterium Thermochromatium tepidum. Biochemistry, 2013, 52, 9001-9008.	1.2	15
26	Lycopene-Family Carotenoids Confer Thermostability on Photocomplexes from a New Thermophilic Purple Bacterium. Biochemistry, 2020, 59, 2351-2358.	1.2	15
27	Crystal structure of a photosynthetic LH1-RC in complex with its electron donor HiPIP. Nature Communications, 2021, 12, 1104.	5.8	15
28	Asymmetric structure of the native Rhodobacter sphaeroides dimeric LH1â€“RC complex. Nature Communications, 2022, 13, 1904.	5.8	15
29	A Spectroscopic Variant of the Light-Harvesting 1 Core Complex from the Thermophilic Purple Sulfur Bacterium Thermochromatium tepidum. Biochemistry, 2011, 50, 3638-3648.	1.2	13
30	Reconstitution of Chlorophyll d into the Bacterial Photosynthetic Light-harvesting Protein LH2. Chemistry Letters, 2018, 47, 1071-1074.	0.7	13
31	Spectroscopic and Thermodynamic Characterization of the Metal-Binding Sites in the LH1â€“RC Complex from Thermophilic Photosynthetic Bacterium Thermochromatium tepidum. Journal of Physical Chemistry B, 2016, 120, 12466-12473.	1.2	12
32	Reconstitution of 3-Acetyl Chlorophyll a into Light-Harvesting Complex 2 from the Purple Photosynthetic Bacterium Phaeospirillum molischianum. ACS Omega, 2020, 5, 6817-6825.	1.6	12
33	Excitation Energy Transfer from Bacteriochlorophyll b in the B800 Site to B850 Bacteriochlorophyll a in Light-Harvesting Complex 2. Journal of Physical Chemistry B, 2021, 125, 2009-2017.	1.2	12
34	Selective oxidation of B800 bacteriochlorophyll a in photosynthetic light-harvesting protein LH2. Scientific Reports, 2019, 9, 3636.	1.6	10
35	Electrostatic charge controls the lowest LH1 Qy transition energy in the triply extremophilic purple phototrophic bacterium, Halorhodospira halochloris. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148473.	0.5	10
36	A Ca2+-binding motif underlies the unusual properties of certain photosynthetic bacterial core light-harvesting complexes. Journal of Biological Chemistry, 2022, 298, 101967.	1.6	9

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37	Functional and structural study on chelator-induced suppression of S2/S1 FTIR spectrum in photosynthetic oxygen-evolving complex. Journal of Inorganic Biochemistry, 2003, 97, 231-239.	1.5	8
38	Circular dichroism and resonance Raman spectroscopies of bacteriochlorophyll b-containing LH1-RC complexes. Photosynthesis Research, 2021, 148, 77-86.	1.6	7
39	Biochemical and Spectroscopic Characterizations of a Hybrid Light-Harvesting Reaction Center Core Complex. Biochemistry, 2018, 57, 4496-4503.	1.2	6
40	The roles of C-terminal residues on the thermal stability and local heme environment of cytochrome câ€™ from the thermophilic purple sulfur bacterium Thermochromatium tepidum. Photosynthesis Research, 2015, 124, 19-29.	1.6	5
41	Quinone transport in the closed light-harvesting 1 reaction center complex from the thermophilic purple bacterium Thermochromatium tepidum. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148307.	0.5	5
42	Structure analysis and characterization of the cytochrome c-554 from thermophilic green sulfur photosynthetic bacterium Chlorobaculum tepidum. Photosynthesis Research, 2013, 118, 249-258.	1.6	4
43	Spectral Properties of Chlorophyll f in the B800 Cavity of Lightâ€harvesting Complex 2 from the Purple Photosynthetic Bacterium Rhodoblastus acidophilus. Photochemistry and Photobiology, 2022, 98, 169-174.	1.3	4
44	C-terminal cleavage of the LH1 Î±-polypeptide in the Sr2+-cultured Thermochromatium tepidum. Photosynthesis Research, 2018, 135, 23-31.	1.6	3
45	Photosynthetic Growth and Energy Conversion in an Engineered Phototroph Containing Thermochromatium tepidum Light-Harvesting Complex 1 and the Rhodobacter sphaeroides Reaction Center Complex. Biochemistry, 2021, 60, 2685-2690.	1.2	2
46	Identification of metal-sensitive structural changes in the Ca2+-binding photocomplex from Thermochromatium tepidum by isotope-edited vibrational spectroscopy. Journal of Chemical Physics, 2022, 156, 105101.	1.2	2
47	Salt- and pH-Dependent Thermal Stability of Photocomplexes from Extremophilic Bacteriochlorophyll b-Containing Halorhodospira Species. Microorganisms, 2022, 10, 959.	1.6	2