Ritsuko Fujii

List of Publications by Year
in descending order

67 papers	1,925 citations	218677 26 h-index	265206 42 g-index
67 all docs	67 docs citations	67 times ranked	1052 citing authors

#	Article	IF	Citations
1	Mechanism of the Carotenoid-to-Bacteriochlorophyll Energy Transfer via the S1State in the LH2 Complexes from Purple Bacteria. Journal of Physical Chemistry B, 2000, 104, 3683-3691.	2.6	143
2	The 2Agâˆ’ energies of all-trans-neurosporene and spheroidene as determined by fluorescence spectroscopy. Chemical Physics Letters, 1998, 288, 847-853.	2.6	108
3	Near-Infrared Time-Resolved Study of the S1 State Dynamics of the Carotenoid Spheroidene. Journal of Physical Chemistry B, 2001, 105, 1072-1080.	2.6	107
4	Two different pathways of internal conversion in carotenoids depending on the length of the conjugated chain. Chemical Physics Letters, 2003, 369, 165-172.	2.6	97
5	Fluorescence Spectroscopy of All-trans-anhydrorhodovibrin and Spirilloxanthin:Â Detection of the 1Bu-Fluorescence. Journal of Physical Chemistry A, 2001, 105, 5348-5355.	2.5	83
6	Light-harvesting function of carotenoids in photo-synthesis: The roles of the newly found 11Bu? state. Biopolymers, 2004, 74, 2-18.	2.4	82
7	A first detection of singlet to triplet conversion from the 11Buâˆ’ to the 13Ag state and triplet internal conversion from the 13Ag to the 13Bu state in carotenoids: dependence on the conjugation length. Chemical Physics Letters, 2003, 376, 292-301.	2.6	70
8	The dependence of the ultrafast relaxation kinetics of the S2 and S1 states in Î²-carotene homologs and lycopene on conjugation length studied by femtosecond time-resolved absorption and Kerr-gate fluorescence spectroscopies. Journal of Chemical Physics, 2009, 130, 214506.	3.0	69
9	The state energy and the displacements of the potential minima of the 2Agâˆ’ state in all-trans-Î²-carotene as determined by fluorescence spectroscopy. Chemical Physics Letters, 1999, 315, 75-81.	2.6	68
10	One- and two-photon pumpâ€“probe optical spectroscopic measurements reveal the S1 and intramolecular charge transfer states are distinct in fucoxanthin. Chemical Physics Letters, 2009, 483, 95-100.	2.6	59
11	The role of the 11Buâˆ’ state in carotenoid-to-bacteriochlorophyll singlet-energy transfer in the LH2 antenna complexes from Rhodobacter sphaeroides G1C, Rhodobacter sphaeroides 2.4.1, Rhodospirillum molischianum and Rhodopseudomonas acidophila. Chemical Physics Letters, 2004, 390, 314-322.	2.6	54
12	Conjugation length dependence of relaxation kinetics in Î²-carotene homologs probed by femtosecond Kerr-gate fluorescence spectroscopy. Chemical Physics Letters, 2006, 425, 66-70.	2.6	49
13	Dye-sensitized solar cells using retinoic acid and carotenoic acids: Dependence of performance on the conjugation length and the dye concentration. Chemical Physics Letters, 2005, 416, 1-6.	2.6	42
14	Probing the Effect of the Binding Site on the Electrostatic Behavior of a Series of Carotenoids Reconstituted into the Light-Harvesting 1 Complex from Purple Photosynthetic Bacterium Rhodospirillum rubrum Detected by Stark Spectroscopy. Journal of Physical Chemistry B, 2008, 112, 9467-9475.	2.6	42
15	Ultrafast excited state dynamics of fucoxanthin: excitation energy dependent intramolecular charge transfer dynamics. Physical Chemistry Chemical Physics, 2011, 13, 10762.	2.8	39
16	Protein Structural Deformation Induced Lifetime Shortening of Photosynthetic Bacteria Light-Harvesting Complex LH2 Excited State. Biophysical Journal, 2005, 88, 4262-4273.	0.5	38
17	The 1Bu-type singlet state of Î²-carotene as a precursor of the radical cation found in chloroform solution by sub-picosecond time-resolved absorption spectroscopy. Chemical Physics Letters, 2001, 348, 235-241.	2.6	37
18	Sequential singlet internal conversion of 1Bu+â†’3Agâˆ’â†’1Buâˆ’â†’2Agâˆ’â†’(1Agâˆ’ ground) in all-trans-spirilloxanthin revealed by two-dimensional sub-5-fs spectroscopy. Chemical Physics Letters, 2004, 392, 68-73.	2.6	35

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19	The energies and kinetics of triplet carotenoids in the LH2 antenna complexes as determined by phosphorescence spectroscopy. Chemical Physics Letters, 2004, 384, 364-371.	2.6	30
20	Fluorescence spectroscopy of all-trans-lycopene: comparison of the energy and the potential displacements of its 2Agâˆ’ state with those of neurosporene and spheroidene. Journal of Luminescence, 2001, 92, 213-222.	3.1	29
21	Ultrafast Energyâ€Transfer Pathway in a Purpleâ€Bacterial Photosynthetic Core Antenna, as Revealed by Femtosecond Timeâ€Resolved Spectroscopy. Angewandte Chemie - International Edition, 2011, 50, 1097-1100.	13.8	28
22	Mechanisms of Electron Injection from Retinoic Acid and Carotenoic Acids to TiO2Nanoparticles and Charge Recombination via the T1State As Determined by Subpicosecond to Microsecond Time-Resolved Absorption Spectroscopy:Â Dependence on the Conjugation Length. Journal of Physical Chemistry B, 2005, 109, 17066-17077.	2.6	27
23	Symmetry Control of Radiative Decay in Linear Polyenes:Â Low Barriers for Isomerization in the S1State of Hexadecaheptaene. Journal of the American Chemical Society, 2007, 129, 1769-1775.	13.7	27
24	Ultrafast S1 and ICT state dynamics of a marine carotenoid probed by femtosecond one- and two-photon pump-probe spectroscopy. Journal of Luminescence, 2011, 131, 515-518.	3.1	27
25	1H NMR, electronic-absorption and resonance-Raman spectra of isomeric okenone as compared with those of isomeric Î²-carotene, canthaxanthin, Î²-apo-8â€²-carotenal and spheroidene. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1998, 54, 727-743.	3.9	26
26	Cis-to-trans Isomerization of Spheroidene in the Triplet State as Detected by Time-Resolved Absorption Spectroscopy. Journal of Physical Chemistry A, 2002, 106, 2410-2421.	2.5	26
27	Internal conversion of 1Bu+ â†’ 1Buâˆ’ â†’ 2Agâˆ’ and fluorescence from the 1Buâˆ’ state in all-trans-neurosporene as probed by up-conversion spectroscopy. Chemical Physics Letters, 2004, 384, 9-15.	2.6	26
28	Ultrafast excited state dynamics of spirilloxanthin in solution and bound to core antenna complexes: Identification of the S* and T1 states. Journal of Chemical Physics, 2012, 137, 064505.	3.0	26
29	Title is missing!. Photosynthesis Research, 1998, 58, 135-142.	2.9	22
30	Generation of the radical cation of Î²-carotene in chloroform via the triplet state as revealed by time-resolved absorption spectroscopy. Chemical Physics Letters, 2000, 326, 33-38.	2.6	22
31	Light-dependent conformational change of neoxanthin in a siphonous green alga, Codium intricatum, revealed by Raman spectroscopy. Photosynthesis Research, 2014, 121, 69-77.	2.9	22
32	Changes in Molecular Structure upon Triplet Excitation of All-trans-Spheroidene in n-Hexane Solution and 15-cis-Spheroidene Bound to the Photo-Reaction Center from Rhodobacter sphaeroides As Revealed by Resonance-Raman Spectroscopy and Normal-Coordinate Analysis. Journal of Physical Chemistry A, 2002, 106, 3566-3579.	2.5	21
33	Comparison of transient grating signals from spheroidene in an organic solvent and in pigment-protein complexes from<i>Rhodobacter sphaeroides</i>2.4.1. Physical Review B, 2010, 81, .	3.2	21
34	Time-dependent Changes in the Carotenoid Composition and Preferential Binding of Spirilloxanthin to the Reaction Center and Anhydrorhodovibrin to the LH1 Antenna Complex in Rhodobium marinumÂ¶. Photochemistry and Photobiology, 2001, 74, 444-452.	2.5	19
35	Isolation and purification of the major photosynthetic antenna, fucoxanthin-Chl a/c protein, from cultured discoid germilings of the brown Alga, Cladosiphon okamuranus TOKIDA (Okinawa Mozuku). Photosynthesis Research, 2012, 111, 157-163.	2.9	19
36	The pigment stoichiometry in a chlorophyll a/c type photosynthetic antenna. Photosynthesis Research, 2012, 111, 165-172.	2.9	19

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37	Characterization of the intramolecular transfer state of marine carotenoid fucoxanthin by femtosecond pumpâ€“probe spectroscopy. Photosynthesis Research, 2014, 121, 61-68.	2.9	19
38	Photoprotection vs. Photoinhibition of Photosystem II in Transplastomic Lettuce (<i>Lactuca) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	3.1	17
39	Semiâ€Synthetic Chlorophyllâ€Carotenoid Dyad for Dyeâ€Sensitized Photocatalytic Hydrogen Evolution. Advanced Materials Interfaces, 2021, 8, 2101303.	3.7	17
40	Triplet-State Conformational Changes in 15-cis-Spheroidene Bound to the Reaction Center from Rhodobacter sphaeroides 2.4.1 as Revealed by Time-Resolved EPR Spectroscopy:â€‰ Strengthened Hypothetical Mechanism of Triplet-Energy Dissipation. Biochemistry, 2006, 45, 2053-2062.	2.5	16
41	Construction of hybrid photosynthetic units using peripheral and core antennae from two different species of photosynthetic bacteria: detection of the energy transfer from bacteriochlorophyll a in LH2 to bacteriochlorophyll b in LH1. Photosynthesis Research, 2008, 95, 327-337.	2.9	14
42	Probing binding site of bacteriochlorophyll a and carotenoid in the reconstituted LH1 complex from Rhodospirillum rubrum S1 by Stark spectroscopy. Photosynthesis Research, 2008, 95, 339-344.	2.9	14
43	Vibrational relaxation in the <mml:math altimg="si19.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://w. Chemical Physics	2.6	12
44	Characterization of fucoxanthin aggregates in mesopores of silica gel: Electronic absorption and circular dichroism spectroscopies. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 313, 3-8.	3.9	12
45	Conformation Analysis of Carotenoids in the Purple BacteriumRhodobiummarinumBased on NMR Spectroscopy and AM1 Calculationâ€. Journal of Chemical Information and Computer Sciences, 2002, 42, 1311-1319.	2.8	11
46	Molecular Structures and Functions of Chlorophylls-<i>a</i> Esterified with Geranylgeranyl, Dihydrogeranylgeranyl, and Tetrahydrogeranylgeranyl Groups at the 17-Propionate Residue in a Diatom, <i>Chaetoceros calcitrans</i>. Biochemistry, 2017, 56, 3682-3688.	2.5	11
47	The pH-dependent photophysical properties of chlorophyll-c bound to the light-harvesting complex from a diatom, Chaetoceros calcitrans. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 358, 379-385.	3.9	11
48	Localized Excitations on the B850a and B850b Bacteriochlorophylls in the LH2 Antenna Complex from Rhodospirillum molischianum As Probed by the Shifts of the Carotenoid Absorption. Journal of Physical Chemistry B, 2001, 105, 7312-7322.	2.6	9
49	Vibrational relaxation pathways in the electronic excited state of carotenoid. Journal of Luminescence, 2006, 119-120, 442-447.	3.1	9
50	The dependence of excitation energy transfer pathways on conjugation length of carotenoids in purple bacterial photosynthetic antennae. Physica Status Solidi (B): Basic Research, 2011, 248, 403-407.	1.5	9
51	Structures and functions of carotenoids bound to reaction centers from purple photosynthetic bacteria. Pure and Applied Chemistry, 2006, 78, 1505-1518.	1.9	8
52	Electrostatic effect of surfactant molecules on bacteriochlorophyll a and carotenoid binding sites in the LH1 complex isolated from Rhodospirillum rubrum S1 probed by Stark spectroscopy. Photosynthesis Research, 2008, 95, 345-351.	2.9	8
53	Linear and nonlinear optical responses in bacteriochlorophyll a. Photosynthesis Research, 2008, 95, 309-316.	2.9	8
54	Carotenoid composition in buah merah (Pandanus conoideus Lam.), an indigenous red fruit of the Papua Islands. Journal of Food Composition and Analysis, 2021, 96, 103722.	3.9	8

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55	Ti₃C₂T_{<i>x</i>} MXene nanosheets hybridized with bacteriochlorinâ€“carotenoid conjugates for photocatalytic hydrogen evolution. New Journal of Chemistry, 2022, 46, 2166-2177.	2.8	8
56	Pigment structure in the light-harvesting protein of the siphonous green alga Codium fragile. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148384.	1.0	7
57	Observation of hybrid artificial photosynthetic membranes using peripheral and core antennae from two different species of photosynthetic bacteria by AFM and fluorescence micro-spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 313, 60-71.	3.9	6
58	Sub-Î¼-second Time-Resolved Absorption Spectroscopy of a Polar Carotenoid Analogue, 2-(All-trans-retinylidene)indan-1,3-dione; Formation of the Dication by Direct Triplet-Excited Sensitization. Journal of Physical Chemistry A, 2005, 109, 11117-11122.	2.5	5
59	Selective Binding of Carotenoids with a Shorter Conjugated Chain to the LH2 Antenna Complex and Those with a Longer Conjugated Chain to the Reaction Center from Rubrivivax gelatinosus. Biochemistry, 2007, 46, 7302-7313.	2.5	5
60	Transient grating spectroscopy in photosynthetic purple bacteria Rhodobacter sphaeroides 2.4.1. Journal of Luminescence, 2009, 129, 1908-1911.	3.1	5
61	Transient Absorption from the 1Bu+ State of All-trans-Î²-carotene Newly Identified in the Near-infrared RegionÂ¶. Photochemistry and Photobiology, 2001, 73, 219-222.	2.5	4
62	Preprocess dependence of optical properties of ensembles and single siphonaxanthin-containing major antenna from the marine green alga Codium fragile. Scientific Reports, 2022, 12, 8461.	3.3	4
63	Reassociation of All-<i>trans</i>-3,4-Dihydroanhydrorhodovibrin with LH1 Subunits Isolated from <i>Rhodospirillum rubrum</i>: Selective Binding of All-<i>trans</i> Isomer from Mixture of <i>cis</i>- and <i>trans</i>-Isomers. Bulletin of the Chemical Society of Japan, 2013, 86, 121-128.	3.2	3
64	Discovery of a novel siphonaxanthin biosynthetic precursor in <i>Codium fragile</i> that accumulates only by exposure to blueâ€green light. FEBS Letters, 2022, , .	2.8	3
65	Production of Carotenoids from Cultivated Seaweed. Advances in Experimental Medicine and Biology, 2021, 1261, 21-27.	1.6	2
66	Wavelength-Dependent Optical Response of Single Photosynthetic Antenna Complexes from Siphonous Green Alga <i>Codium fragile</i>. Journal of Physical Chemistry Letters, 0, , 5226-5231.	4.6	1
67	Enhancement of power conversion efficiency by chlorophyll and carotenoid co-sensitization in the biosolar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 431, 114042.	3.9	0