

Ritsuko Fujii

List of Publications by Year in descending order

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67
papers

1,925
citations

218677

26
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265206

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all docs

67
docs citations

67
times ranked

1052
citing authors

#	ARTICLE	IF	CITATIONS
1	Ti ₃ C ₂ MXene nanosheets hybridized with bacteriochlorin-carotenoid conjugates for photocatalytic hydrogen evolution. <i>New Journal of Chemistry</i> , 2022, 46, 2166-2177.	2.8	8
2	Discovery of a novel siphonaxanthin biosynthetic precursor in <i>Codium fragile</i> that accumulates only by exposure to blue-green light. <i>FEBS Letters</i> , 2022, , .	2.8	3
3	Preprocess dependence of optical properties of ensembles and single siphonaxanthin-containing major antenna from the marine green alga <i>Codium fragile</i> . <i>Scientific Reports</i> , 2022, 12, 8461.	3.3	4
4	Enhancement of power conversion efficiency by chlorophyll and carotenoid co-sensitization in the biosolar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 431, 114042.	3.9	0
5	Carotenoid composition in buah merah (<i>Pandanus conoideus</i> Lam.), an indigenous red fruit of the Papua Islands. <i>Journal of Food Composition and Analysis</i> , 2021, 96, 103722.	3.9	8
6	Pigment structure in the light-harvesting protein of the siphonous green alga <i>Codium fragile</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148384.	1.0	7
7	Semi-Synthetic Chlorophyll-Carotenoid Dyad for Dye-Sensitized Photocatalytic Hydrogen Evolution. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101303.	3.7	17
8	Production of Carotenoids from Cultivated Seaweed. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1261, 21-27.	1.6	2
9	The pH-dependent photophysical properties of chlorophyll-c bound to the light-harvesting complex from a diatom, <i>Chaetoceros calcitrans</i> . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 358, 379-385.	3.9	11
10	Molecular Structures and Functions of Chlorophylls Esterified with Geranylgeranyl, Dihydrogeranylgeranyl, and Tetrahydrogeranylgeranyl Groups at the 17-Propionate Residue in a Diatom, <i>Chaetoceros calcitrans</i> . <i>Biochemistry</i> , 2017, 56, 3682-3688.	2.5	11
11	Photoprotection vs. Photoinhibition of Photosystem II in Transplastomic Lettuce (<i>Lactuca</i>) Tj ETQq1 1 0.784314, rgBT /Overlock 10 T 3.1 P 17	3.1	17
12	Characterization of fucoxanthin aggregates in mesopores of silica gel: Electronic absorption and circular dichroism spectroscopies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 313, 3-8.	3.9	12
13	Observation of hybrid artificial photosynthetic membranes using peripheral and core antennae from two different species of photosynthetic bacteria by AFM and fluorescence micro-spectroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 313, 60-71.	3.9	6
14	Light-dependent conformational change of neoxanthin in a siphonous green alga, <i>Codium intricatum</i> , revealed by Raman spectroscopy. <i>Photosynthesis Research</i> , 2014, 121, 69-77.	2.9	22
15	Characterization of the intramolecular transfer state of marine carotenoid fucoxanthin by femtosecond pump-probe spectroscopy. <i>Photosynthesis Research</i> , 2014, 121, 61-68.	2.9	19
16	Reassociation of All-trans-3,4-Dihydroanhydrorhodovibrin with LH1 Subunits Isolated from <i>Rhodospirillum rubrum</i> : Selective Binding of All-trans Isomer from Mixture of cis- and trans-Isomers. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 121-128.	3.2	3
17	Ultrafast excited state dynamics of spirilloxanthin in solution and bound to core antenna complexes: Identification of the S* and T1 states. <i>Journal of Chemical Physics</i> , 2012, 137, 064505.	3.0	26
18	Isolation and purification of the major photosynthetic antenna, fucoxanthin-Chl a/c protein, from cultured discoid germilings of the brown Alga, <i>Cladosiphon okamuranus</i> TOKIDA (Okinawa Mozuku). <i>Photosynthesis Research</i> , 2012, 111, 157-163.	2.9	19

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19	The pigment stoichiometry in a chlorophyll a/c type photosynthetic antenna. <i>Photosynthesis Research</i> , 2012, 111, 165-172.	2.9	19
20	Ultrafast excited state dynamics of fucoxanthin: excitation energy dependent intramolecular charge transfer dynamics. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 10762.	2.8	39
21	The dependence of excitation energy transfer pathways on conjugation length of carotenoids in purple bacterial photosynthetic antennae. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 403-407.	1.5	9
22	Ultrafast Energy Transfer Pathway in a Purple Bacterial Photosynthetic Core Antenna, as Revealed by Femtosecond Time-Resolved Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1097-1100.	13.8	28
23	Ultrafast S1 and ICT state dynamics of a marine carotenoid probed by femtosecond one- and two-photon pump-probe spectroscopy. <i>Journal of Luminescence</i> , 2011, 131, 515-518.	3.1	27
24	Comparison of transient grating signals from spheroidene in an organic solvent and in pigment-protein complexes from <i>Rhodobacter sphaeroides</i> 2.4.1. <i>Physical Review B</i> , 2010, 81, .	3.2	21
25	The dependence of the ultrafast relaxation kinetics of the S2 and S1 states in β -carotene homologs and lycopene on conjugation length studied by femtosecond time-resolved absorption and Kerr-gate fluorescence spectroscopies. <i>Journal of Chemical Physics</i> , 2009, 130, 214506.	3.0	69
26	Transient grating spectroscopy in photosynthetic purple bacteria <i>Rhodobacter sphaeroides</i> 2.4.1. <i>Journal of Luminescence</i> , 2009, 129, 1908-1911.	3.1	5
27	One- and two-photon pump-probe optical spectroscopic measurements reveal the S1 and intramolecular charge transfer states are distinct in fucoxanthin. <i>Chemical Physics Letters</i> , 2009, 483, 95-100.	2.6	59
28	Electrostatic effect of surfactant molecules on bacteriochlorophyll a and carotenoid binding sites in the LH1 complex isolated from <i>Rhodospirillum rubrum</i> S1 probed by Stark spectroscopy. <i>Photosynthesis Research</i> , 2008, 95, 345-351.	2.9	8
29	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. <i>Photosynthesis Research</i> , 2008, 95, 327-337.	2.9	14
30	Probing binding site of bacteriochlorophyll a and carotenoid in the reconstituted LH1 complex from <i>Rhodospirillum rubrum</i> S1 by Stark spectroscopy. <i>Photosynthesis Research</i> , 2008, 95, 339-344.	2.9	14
31	Linear and nonlinear optical responses in bacteriochlorophyll a. <i>Photosynthesis Research</i> , 2008, 95, 309-316.	2.9	8
32	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 <i>Rhodospirillum rubrum</i> Detected by Stark Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9467-9475.	2.6	42
33	Symmetry Control of Radiative Decay in Linear Polyenes: Low Barriers for Isomerization in the S1 State of Hexadecaheptaene. <i>Journal of the American Chemical Society</i> , 2007, 129, 1769-1775.	13.7	27
34	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 <i>Rubrivivax gelatinosus</i> . <i>Biochemistry</i> , 2007, 46, 7302-7313.	2.5	5
35	Triplet-State Conformational Changes in 15-cis-Spheroidene Bound to the Reaction Center from <i>Rhodobacter sphaeroides</i> 2.4.1 as Revealed by Time-Resolved EPR Spectroscopy: A Strengthened Hypothetical Mechanism of Triplet-Energy Dissipation. <i>Biochemistry</i> , 2006, 45, 2053-2062.	2.5	16
36	Structures and functions of carotenoids bound to reaction centers from purple photosynthetic bacteria. <i>Pure and Applied Chemistry</i> , 2006, 78, 1505-1518.	1.9	8

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37	Conjugation length dependence of relaxation kinetics in β -carotene homologs probed by femtosecond Kerr-gate fluorescence spectroscopy. <i>Chemical Physics Letters</i> , 2006, 425, 66-70.	2.6	49
38	Vibrational relaxation pathways in the electronic excited state of carotenoid. <i>Journal of Luminescence</i> , 2006, 119-120, 442-447.	3.1	9
39	Dye-sensitized solar cells using retinoic acid and carotenoid acids: Dependence of performance on the conjugation length and the dye concentration. <i>Chemical Physics Letters</i> , 2005, 416, 1-6.	2.6	42
40	Sub-picosecond 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. <i>Journal of Physical Chemistry A</i> , 2005, 109, 11117-11122.	2.5	5
41	Mechanisms of Electron Injection from Retinoic Acid and Carotenoid Acids to TiO ₂ Nanoparticles and Charge Recombination via the T ₁ State As Determined by Subpicosecond to Microsecond Time-Resolved Absorption Spectroscopy: A Dependence on the Conjugation Length. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17066-17077.	2.6	27
42	Protein Structural Deformation Induced Lifetime Shortening of Photosynthetic Bacteria Light-Harvesting Complex LH2 Excited State. <i>Biophysical Journal</i> , 2005, 88, 4262-4273.	0.5	38
43	The energies and kinetics of triplet carotenoids in the LH2 antenna complexes as determined by phosphorescence spectroscopy. <i>Chemical Physics Letters</i> , 2004, 384, 364-371.	2.6	30
44	Light-harvesting function of carotenoids in photo-synthesis: The roles of the newly found 11Bu ⁺ state. <i>Biopolymers</i> , 2004, 74, 2-18.	2.4	82
45	Internal conversion of 1Bu ⁺ 1Bu ⁺ 2Ag ⁺ and fluorescence from the 1Bu ⁺ state in all-trans-neurosporene as probed by up-conversion spectroscopy. <i>Chemical Physics Letters</i> , 2004, 384, 9-15.	2.6	26
46	The role of the 11Bu ⁺ state in carotenoid-to-bacteriochlorophyll singlet-energy transfer in the LH2 antenna complexes from <i>Rhodobacter sphaeroides</i> G1C, <i>Rhodobacter sphaeroides</i> 2.4.1, <i>Rhodospirillum rubrum</i> and <i>Rhodospseudomonas acidophila</i> . <i>Chemical Physics Letters</i> , 2004, 390, 314-322.	2.6	54
47	Sequential singlet internal conversion of 1Bu ⁺ 3Ag ⁺ 1Bu ⁺ 2Ag ⁺ (1Ag ⁺ ground) in all-trans-spirilloxanthin revealed by two-dimensional sub-5-fs spectroscopy. <i>Chemical Physics Letters</i> , 2004, 390, 314-322.	2.6	35
48	Vibrational relaxation in the $\langle \text{mml:math altimg="si19.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://w.$	2.6	12
49	Two different pathways of internal conversion in carotenoids depending on the length of the conjugated chain. <i>Chemical Physics Letters</i> , 2003, 369, 165-172.	2.6	97
50	A first detection of singlet to triplet conversion from the 11Bu ⁺ to the 13Ag state and triplet internal conversion from the 13Ag to the 13Bu state in carotenoids: dependence on the conjugation length. <i>Chemical Physics Letters</i> , 2003, 376, 292-301.	2.6	70
51	Cis-to-trans Isomerization of Spheroidene in the Triplet State as Detected by Time-Resolved Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2002, 106, 2410-2421.	2.5	26
52	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 <i>Rhodobacter sphaeroides</i> As Revealed by Resonance-Raman Spectroscopy and Normal-Coordinate Analysis. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3566-3579.	2.5	21
53	Conformation Analysis of Carotenoids in the Purple Bacterium <i>Rhodobium rubrum</i> Based on NMR Spectroscopy and AM1 Calculation. <i>Journal of Chemical Information and Computer Sciences</i> , 2002, 42, 1311-1319.	2.8	11
54	Localized Excitations on the B850a and B850b Bacteriochlorophylls in the LH2 Antenna Complex from <i>Rhodospirillum rubrum</i> As Probed by the Shifts of the Carotenoid Absorption. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7312-7322.	2.6	9

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55	Fluorescence Spectroscopy of All-trans-anhydrorhodovibrin and Spirilloxanthin: Detection of the 1Bu-Fluorescence. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5348-5355.	2.5	83
56	Near-Infrared Time-Resolved Study of the S1 State Dynamics of the Carotenoid Spheroidene. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1072-1080.	2.6	107
57	Fluorescence spectroscopy of all-trans-lycopene: comparison of the energy and the potential displacements of its 2Ag [*] state with those of neurosporene and spheroidene. <i>Journal of Luminescence</i> , 2001, 92, 213-222.	3.1	29
58	The 1Bu-type singlet state of \hat{I}^2 -carotene as a precursor of the radical cation found in chloroform solution by sub-picosecond time-resolved absorption spectroscopy. <i>Chemical Physics Letters</i> , 2001, 348, 235-241.	2.6	37
59	Time-dependent Changes in the Carotenoid Composition and Preferential Binding of Spirilloxanthin to the Reaction Center and Anhydrorhodovibrin to the LH1 Antenna Complex in <i>Rhodobium marinum</i> . <i>Photochemistry and Photobiology</i> , 2001, 74, 444-452.	2.5	19
60	Transient Absorption from the 1Bu ⁺ State of All-trans- \hat{I}^2 -carotene Newly Identified in the Near-infrared Region. <i>Photochemistry and Photobiology</i> , 2001, 73, 219-222.	2.5	4
61	Generation of the radical cation of \hat{I}^2 -carotene in chloroform via the triplet state as revealed by time-resolved absorption spectroscopy. <i>Chemical Physics Letters</i> , 2000, 326, 33-38.	2.6	22
62	Mechanism of the Carotenoid-to-Bacteriochlorophyll Energy Transfer via the S1 State in the LH2 Complexes from Purple Bacteria. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3683-3691.	2.6	143
63	The state energy and the displacements of the potential minima of the 2Ag [*] state in all-trans- \hat{I}^2 -carotene as determined by fluorescence spectroscopy. <i>Chemical Physics Letters</i> , 1999, 315, 75-81.	2.6	68
64	The 2Ag [*] energies of all-trans-neurosporene and spheroidene as determined by fluorescence spectroscopy. <i>Chemical Physics Letters</i> , 1998, 288, 847-853.	2.6	108
65	Title is missing!. <i>Photosynthesis Research</i> , 1998, 58, 135-142.	2.9	22
66	¹ H NMR, electronic-absorption and resonance-Raman spectra of isomeric okenone as compared with those of isomeric \hat{I}^2 -carotene, canthaxanthin, \hat{I}^2 -apo-8 β -carotenal and spheroidene. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1998, 54, 727-743.	3.9	26
67	Wavelength-Dependent Optical Response of Single Photosynthetic Antenna Complexes from Siphonous Green Alga <i>Codium fragile</i> . <i>Journal of Physical Chemistry Letters</i> , 0, , 5226-5231.	4.6	1