Jakub PÅ¡enÄÃ-k

List of Publications by Year
in descending order

58 papers	1,438 citations	304743 22 h-index	330143 37 g-index
59 all docs	59 docs citations	59 times ranked	1125 citing authors

#	Article	IF	Citations
1	Superradiance of bacteriochlorophyll c aggregates in chlorosomes of green photosynthetic bacteria. Scientific Reports, 2021, 11, 8354.	3.3	7
2	Understanding delayed fluorescence and triplet decays of Protoporphyrin IX under hypoxic conditions. Photochemical and Photobiological Sciences, 2021, 20, 843-857.	2.9	3
3	On the nature of plasmon-induced photocurrent enhancement in Bacteriochlorophyll c sensitized solar cells: Towards red light harvesting. Materials Chemistry and Physics, 2021, 258, 123932.	4.0	2
4	Triplet state quenching of bacteriochlorophyll c aggregates in a protein-free environment of a chlorosome interior. Chemical Physics, 2020, 529, 110542.	1.9	6
5	Photoprotection of Photosynthetic Pigments in Plant One-Helix Protein 1/2 Heterodimers. Journal of Physical Chemistry Letters, 2020, 11, 9387-9392.	4.6	11
6	Efficiency of excitation energy trapping in the green photosynthetic bacterium Chlorobaculum tepidum. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 147-154.	1.0	13
7	Quenching of chlorophyll triplet states by carotenoids in algal light-harvesting complexes related to fucoxanthin-chlorophyll protein. Photosynthesis Research, 2018, 135, 213-225.	2.9	24
8	Temperature Dependence of Chlorophyll Triplet Quenching in Two Photosynthetic Light-Harvesting Complexes from Higher Plants and Dinoflagellates. Journal of Physical Chemistry B, 2018, 122, 8834-8845.	2.6	10
9	In situ mapping of the energy flow through the entire photosynthetic apparatus. Nature Chemistry, 2016, 8, 705-710.	13.6	139
10	Tripletâ€“triplet energy transfer from chlorophylls to carotenoids in two antenna complexes from dinoflagellate Amphidinium carterae. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 341-349.	1.0	25
11	Transfer of vibrational coherence through incoherent energy transfer process in FÃ¶rster limit. Canadian Journal of Chemistry, 2014, 92, 135-143.	1.1	13
12	Unraveling the nature of coherent beatings in chlorosomes. Journal of Chemical Physics, 2014, 140, 115103.	3.0	29
13	Energy transfer in aggregates of bacteriochlorophyll c self-assembled with azulene derivatives. Physical Chemistry Chemical Physics, 2014, 16, 16755-16764.	2.8	15
14	2D Electronic Spectroscopy Reveals Excitonic Structure in the Baseplate of a Chlorosome. Journal of Physical Chemistry Letters, 2014, 5, 1743-1747.	4.6	25
15	Chlorosomes: Structure, Function and Assembly. Advances in Photosynthesis and Respiration, 2014, , 77-109.	1.0	32
16	Structural and Functional Roles of Carotenoids in Chlorosomes. Journal of Bacteriology, 2013, 195, 1727-1734.	2.2	22
17	Fast Exciton Dynamics and Coherent Oscillations Revealed by Coherent 2D Spectroscopy in Chlorosomes. EPJ Web of Conferences, 2013, 41, 08015.	0.3	0
18	Two-Dimensional Electronic Spectroscopy Reveals Ultrafast Energy Diffusion in Chlorosomes. Journal of the American Chemical Society, 2012, 134, 11611-11617.	13.7	101

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19	Computational study of short-range interactions in bacteriochlorophyll aggregates. Computational and Theoretical Chemistry, 2012, 998, 87-97.	2.5	15
20	Self-assembly and energy transfer in artificial light-harvesting complexes of bacteriochlorophyllÂc with astaxanthin. Photosynthesis Research, 2012, 111, 193-204.	2.9	9
21	Î²-Carotene to bacteriochlorophyll c energy transfer in self-assembled aggregates mimicking chlorosomes. Chemical Physics, 2010, 373, 90-97.	1.9	26
22	The lamellar spacing in self-assembling bacteriochlorophyll aggregates is proportional to the length of the esterifying alcohol. Photosynthesis Research, 2010, 104, 211-219.	2.9	31
23	Excited state properties of aryl carotenoids. Physical Chemistry Chemical Physics, 2010, 12, 3112.	2.8	33
24	Structure of Chlorosomes from the Green Filamentous Bacterium Chloroflexus aurantiacus. Journal of Bacteriology, 2009, 191, 6701-6708.	2.2	60
25	Effect of quinones on formation and properties of bacteriochlorophyll c aggregates. Photosynthesis Research, 2008, 95, 183-189.	2.9	19
26	The Length of Esterifying Alcohol Affects the Aggregation Properties of Chlorosomal Bacteriochlorophylls. Photochemistry and Photobiology, 2008, 84, 1187-1194.	2.5	19
27	Hexanol-Induced Orderâ^'Disorder Transitions in Lamellar Self-Assembling Aggregates of Bacteriochlorophyll c in Chlorobium tepidum Chlorosomes. Langmuir, 2008, 24, 2035-2041.	3.5	16
28	X-Ray Scattering and Electron Cryomicroscopy Study on the Effect of Carotenoid Biosynthesis to the Structure of Chlorobium tepidum Chlorosomes. Biophysical Journal, 2007, 93, 620-628.	0.5	28
29	Delayed fluorescence of meso-tetraphenylporphyrin in acetone and in dimethylsulphoxide. Journal of Luminescence, 2007, 122-123, 247-249.	3.1	8
30	Internal Structure of Chlorosomes from Brown-Colored Chlorobium Species and the Role of Carotenoids in Their Assembly. Biophysical Journal, 2006, 91, 1433-1440.	0.5	68
31	Evidence for localisation of accumulated chlorophyll cation on the D1-accessory chlorophyll in the reaction centre of Photosystem II. Photosynthesis Research, 2005, 84, 297-302.	2.9	6
32	Effect of Carotenoids and Monogalactosyl Diglyceride on Bacteriochlorophyll c Aggregates in Aqueous Buffer: Implications for the Self-assembly of ChlorosomesÂ¶. Photochemistry and Photobiology, 2004, 80, 572.	2.5	20
33	Hole burning study of cyanobacterial Photosystem II complexes differing in the content of small putative chlorophyll-binding proteins. Journal of Luminescence, 2004, 107, 230-235.	3.1	2
34	Spectroscopic study of singlet oxygen photogeneration in meso-tetra-sulphonatophenyl-porphin. Journal of Luminescence, 2004, 108, 117-119.	3.1	24
35	Lamellar Organization of Pigments in Chlorosomes, the Light Harvesting Complexes of Green Photosynthetic Bacteria. Biophysical Journal, 2004, 87, 1165-1172.	0.5	211
36	Effect of Carotenoids and Monogalactosyl Diglyceride on Bacteriochlorophyll c Aggregates in Aqueous Buffer: Implications for the Selfâ€assembly of Chlorosomes^{Â¶}. Photochemistry and Photobiology, 2004, 80, 572-578.	2.5	1

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37	Effect of Carotenoids and Monogalactosyl Diglyceride on Bacteriochlorophyll c Aggregates in Aqueous Buffer: Implications for the Self-assembly of ChlorosomesÂ¶. Photochemistry and Photobiology, 2004, 80, 572.	2.5	10
38	Time and spectral resolved phosphorescence of singlet oxygen and pigments in photosystem II particles. Journal of Luminescence, 2003, 102-103, 313-317.	3.1	23
39	Phosphorescence of singlet oxygen and meso-tetra(4-sulfonatophenyl)porphin: time and spectral resolved study. Journal of Molecular Structure, 2003, 651-653, 301-304.	3.6	28
40	Excitation Energy Transfer Dynamics and Excited-State Structure in Chlorosomes of Chlorobium phaeobacteroides. Biophysical Journal, 2003, 84, 1161-1179.	0.5	77
41	Excitation energy transfer in chlorosomes of Chlorobium phaeobacteroides strain CL1401: the role of carotenoids. Photosynthesis Research, 2002, 71, 5-18.	2.9	35
42	Effect of Carotenoid Biosynthesis Inhibition on the Chlorosome Organization in Chlorobium phaeobacteroides Strain CL1401. Photochemistry and Photobiology, 2000, 71, 715-723.	2.5	39
43	Spectroscopic characterization of pigment binding proteins in normal-grown and iron-stressed thermophilic cyanobacteria Synecococcus sp.. Journal of Molecular Structure, 1999, 480-481, 577-580.	3.6	4
44	Persistent hole burning and femtosecond pump-probe absorption spectroscopy of green sulphur photosynthetic bacteria antennae. Journal of Luminescence, 1998, 76-77, 322-326.	3.1	1
45	Fast Energy Transfer and Exciton Dynamics in Chlorosomes of the Green Sulfur Bacterium Chlorobium tepidum. Journal of Physical Chemistry A, 1998, 102, 4392-4398.	2.5	56
46	Hole-burning spectroscopy of photosynthetically active pigments of green sulphur photosynthetic bacteria. Journal of Luminescence, 1997, 72-74, 593-594.	3.1	2
47	Hole-burning study of excited energy transfer in the antenna protein CP47 of Synechocystis sp. PCC 6803 mutant H114Q. Journal of Luminescence, 1997, 72-74, 600-602.	3.1	9
48	Title is missing!. Photosynthesis Research, 1997, 52, 83-92.	2.9	14
49	Low-temperature spectroscopy of algae affected by UV-B stress absorption fluorescence and hole-burning. Journal of Luminescence, 1997, 72-74, 587-588.	3.1	0
50	Hole Burning and Low Temperature Absorption and Fluorescence Spectroscopy of Algae Affected by Uv-B Stress. Molecular Crystals and Liquid Crystals, 1996, 291, 103-109.	0.3	0
51	Laser Induced Hole Filling of Bacteriochlorophyll d Monomers of Green Sulfur Photosynthetic Bacteria Antennae. Molecular Crystals and Liquid Crystals, 1996, 291, 201-207.	0.3	3
52	Hole-Burning Study of Energy Transfer in Antenna Proteins of Dunaliella Tertiolecta Affected by Iron-Limitation. Molecular Crystals and Liquid Crystals, 1996, 291, 111-117.	0.3	0
53	Fluorescence detected magnetic resonance (FDMR) of green sulfur photosynthetic bacteria Chlorobium sp.. Photosynthesis Research, 1994, 40, 1-10.	2.9	34
54	Hole burning study of excited state structure and energy transfer dynamics of bacteriochlorophyll c in chlorosomes of green sulphur photosynthetic bacteria. Photosynthesis Research, 1994, 42, 1-8.	2.9	14

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55	Site directed study of excited energy transfer in photosynthetic antenna by hole burning in fluorescence spectra. Journal of Luminescence, 1994, 60-61, 523-526.	3.1	8
56	Low temperature optical spectroscopy of natural porphyrins. Journal of Molecular Structure, 1993, 293, 177-180.	3.6	1
57	Spectral hole burning study of photosynthetic antenna pigment-protein complexes. Journal of Molecular Structure, 1993, 294, 131-134.	3.6	5
58	Fast energy transfer in green photosynthetic bacteria Chlorobium limicola studied by spectral hole burning. Journal of Molecular Structure, 1993, 294, 135-138.	3.6	2