Vladimir Shuvalov

List of Publications by Year
in descending order

136	1,920	257357	289141
papers	citations	24 h-index	40 g-index

137	137	137	1194
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coherent Nuclear and Electronic Dynamics in Primary Charge Separation in Photosynthetic Reaction Centers:Â A Redfield Theory Approach. Journal of Physical Chemistry B, 2004, 108, 7445-7457.	1.2	118
2	Conservation and dissipation of light energy as complementary processes: homoiohydric and poikilohydric autotrophs. Journal of Experimental Botany, 2006, 57, 1211-1223.	2.4	100
3	Thermal energy dissipation in reaction centres and in the antenna of photosystem II protects desiccated poikilohydric mosses against photo-oxidation. Journal of Experimental Botany, 2006, 57, 2993-3006.	2.4	96
4	Femtosecond primary charge separation in Synechocystis sp. PCC 6803 photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1410-1420.	0.5	95
5	Evidence for a Novel Quinone-Binding Site in the Photosystem II (PS II) Complex That Regulates the Redox Potential of Cytochrome b559. Biochemistry, 2007, 46, 1091-1105.	1.2	74
6	Electric Field Effects on the Chlorophylls, Pheophytins, and Î²-Carotenes in the Reaction Center of Photosystem IIâ€. Biochemistry, 2003, 42, 9205-9213.	1.2	71
7	Activation of mechanisms of photoprotection by desiccation and by light: poikilohydric photoautotrophs*. Journal of Experimental Botany, 2007, 58, 2745-2759.	2.4	68
8	Predicted bacteriorhodopsin from Exiguobacterium sibiricum is a functional proton pump. FEBS Letters, 2010, 584, 4193-4196.	1.3	62
9	Nuclear Wavepacket Motion between P* and P+BA-Potential Surfaces with Subsequent Electron Transfer to HAin Bacterial Reaction Centers. 1. Room Temperatureâ€. Biochemistry, 2002, 41, 2667-2674.	1.2	58
10	Nuclear Wave Packet Motion between P* and P+BA- Potential Surfaces with a Subsequent Electron Transfer to HA in Bacterial Reaction Centers at 90 K. Electron Transfer Pathway. Biochemistry, 2002, 41, 14019-14027.	1.2	58
11	Coupling of nuclear wavepacket motion and charge separation in bacterial reaction centers. FEBS Letters, 2003, 540, 26-34.	1.3	58
12	P680 (PD1PD2) and ChlD1 as alternative electron donors in photosystem II core complexes and isolated reaction centers. Journal of Photochemistry and Photobiology B: Biology, 2011, 104, 44-50.	1.7	51
13	Photochemical reactions of chlorophyll in dehydrated Photosystem II: two chlorophyll forms (680) Tj ETQq1 1 0.784314 rgBT /Overlock	1.6	48
14	Mechanism of Charge Separation and Stabilization of Separated Charges in Reaction Centers ofChloroflexusaurantiacusand of YM210W(L) Mutants ofRhodobactersphaeroidesExcited by 20 fs Pulses at 90 Kâ€. Journal of Physical Chemistry A, 2003, 107, 8330-8338.	1.1	41
15	Primary light-energy conversion in tetrameric chlorophyll structure of photosystem II and bacterial reaction centers: II. Femto- and picosecond charge separation in PSII D1/D2/Cyt b559 complex. Photosynthesis Research, 2008, 98, 95-103.	1.6	41
16	Primary charge separation between P* and BA: Electron-transfer pathways in native and mutant GM203L bacterial reaction centers. Chemical Physics, 2005, 319, 297-307.	0.9	38
17	Thermal Dissipation of Light Energy is Regulated Differently and by Different Mechanisms in Lichens and Higher Plants. Plant Biology, 2005, 7, 156-167.	1.8	37
18	Mechanism of adiabatic primary electron transfer in photosystem I: Femtosecond spectroscopy upon excitation of reaction center in the far-red edge of the QY band. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 895-905.	0.5	37

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19	Reaction pattern of Photosystem II: oxidative water cleavage and protein flexibility. Photosynthesis Research, 2005, 84, 317-323.	1.6	32
20	Evidence that histidine forms a coordination bond to the A0A and A0B chlorophylls and a second H-bond to the A1A and A1B phylloquinones in M688HPsaA and M668HPsaB variants of Synechocystis sp. PCC 6803. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1362-1375.	0.5	32
21	Effect of Dehydration on Light-Induced Reactions in Photosystem II:â€‰ Photoreactions of Cytochrome b559. Biochemistry, 2003, 42, 8119-8132.	1.2	30
22	Two reaction pathways for transformation of high potential cytochrome b559 of PS II into the intermediate potential form. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 550-558.	0.5	30
23	Photochemical reactions in dehydrated photosynthetic organisms, leaves, chloroplasts and photosystem II particles: reversible reduction of pheophytin and chlorophyll and oxidation of Î²-carotene. Chemical Physics, 2003, 294, 227-237.	0.9	28
24	Extinction coefficients of cytochromes b559 and c550 of Thermosynechococcus elongatus and Cyt b559/PS II stoichiometry of higher plants. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 333-341.	0.5	28
25	Energy and Electron Transfer in Photosystem II Reaction Centers with Modified Pheophytin Composition. Biophysical Journal, 2004, 86, 1664-1672.	0.2	23
26	Substitution of Isoleucine L177 by Histidine Affects the Pigment Composition and Properties of the Reaction Center of the Purple Bacterium Rhodobacter sphaeroides. Biochemistry (Moscow), 2005, 70, 1256-1261.	0.7	23
27	Structure-function investigations of bacterial photosynthetic reaction centers. Biochemistry (Moscow), 2011, 76, 1465-1483.	0.7	22
28	Substitution of isoleucine L177 by histidine in Rhodobacter sphaeroides reaction center results in the covalent binding of P_A bacteriochlorophyll to the L subunit. FEBS Letters, 2007, 581, 5769-5773.	1.3	21
29	Biphasic reduction of cytochrome b559 by plastoquinol in photosystem II membrane fragments. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 471-483.	0.5	19
30	Primary charge separation within P870* in wild type and heterodimer mutants in femtosecond time domain. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1392-1398.	0.5	18
31	Vibrational coherence in bacterial reaction centers with genetically modified B-branch pigment composition. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 369-379.	0.5	17
32	The site-directed mutation I(L177)H in Rhodobacter sphaeroides reaction center affects coordination of PA and BB bacteriochlorophylls. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1407-1417.	0.5	17
33	Characterization of the low-temperature triplet state of chlorophyll in photosystem II core complexes: Application of phosphorescence measurements and Fourier transform infrared spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 782-788.	0.5	15
34	Elliptically polarised cnoidal waves in a medium with spatial dispersion of cubic nonlinearity. Quantum Electronics, 2012, 42, 117-119.	0.3	14
35	Generation of ion-radical chlorophyll states in the light-harvesting antenna and the reaction center of cyanobacterial photosystem I. Photosynthesis Research, 2020, 146, 55-73.	1.6	13
36	Primary light-energy conversion in tetrameric chlorophyll structure of photosystemÂII and bacterial reaction centers: I. A review. Photosynthesis Research, 2008, 98, 81-93.	1.6	12

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37	Electron and nuclear dynamics in many-electron atoms, molecules and chlorophyllâ€“protein complexes: A review. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 422-433.	0.5	11
38	Chirped elliptically polarised cnoidal waves and polarisation 'chaos' in an isotropic medium with spatial dispersion of cubic nonlinearity. Quantum Electronics, 2012, 42, 1118-1122.	0.3	11
39	Formation and decay of P680 (PD1â€“PD2)+PheoD1â^' radical ion pair in photosystem II core complexes. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1384-1388.	0.5	10
40	Vyacheslav (Slava) Klimov (1945â€“2017): A scientist par excellence, a great human being, a friend, and a Renaissance man. Photosynthesis Research, 2018, 136, 1-16.	1.6	10
41	Electron transfer in deuterated reaction centers of Rhodobacter sphaeroides at 90 K according to femtosecond spectroscopy data. Biochemistry (Moscow), 2003, 68, 603-610.	0.7	9
42	WAVE PACKET MOTIONS COUPLED TO ELECTRON TRANSFER IN REACTION CENTERS OF CHLOROFLEXUS AURANTIACUS. Journal of Bioinformatics and Computational Biology, 2008, 06, 643-666.	0.3	9
43	Femtosecond absorption band formation at 1080 and 1020 nm as an indication of charge-separated states P A Î´+ P B Î´â^' and P+B A â^' in photosynthetic reaction centers of the Purple bacterium Rhodobacter sphaeroides. Doklady Biochemistry and Biophysics, 2010, 430, 24-28.	0.3	9
44	FTIR spectroscopy of the reaction center of Chloroflexus aurantiacus: Photoreduction of the bacteriopheophytin electron acceptor. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1013-1021.	0.5	9
45	Elastic Vibrations in the Photosynthetic Bacterial Reaction Center Coupled to the Primary Charge Separation: Implications from Molecular Dynamics Simulations and Stochastic Langevin Approach. Journal of Physical Chemistry B, 2015, 119, 13656-13667.	1.2	9
46	Properties of mutant reaction centers of Rhodobacter sphaeroides with substitutions of histidine L153, the axial Mg2+ ligand of bacteriochlorophyll BA. Biochemistry (Moscow), 2009, 74, 452-460.	0.7	8
47	Examination of stability of mutant photosynthetic reaction center of Rhodobacter sphaeroides I(L177)H and determination of location of bacteriochlorophyll covalently bound to the protein. Biochemistry (Moscow), 2010, 75, 208-213.	0.7	8
48	Primary electron transfer in reaction centers of YM210L and YM210L/HL168L mutants of Rhodobacter sphaeroides. Biochemistry (Moscow), 2010, 75, 832-840.	0.7	8
49	Femtosecond charge separation in dry films of reaction centers of Rhodobacter sphaeroides and Chloroflexus aurantiacus. Biochemistry (Moscow), 2012, 77, 444-455.	0.7	8
50	Modeling of reversible charge separation in reaction centers of photosynthesis: An incoherent approach. Journal of Theoretical Biology, 2014, 343, 92-101.	0.8	8
51	Approximate solutions to a nonintegrable problem of propagation of elliptically polarised waves in an isotropic gyrotropic nonlinear medium, and periodic analogues of multisoliton complexes. Quantum Electronics, 2014, 44, 130-134.	0.3	8
52	Excitation of photosystem I by 760 nm femtosecond laser pulses: transient absorption spectra and intermediates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 174001.	0.6	8
53	Estimation of the bacteriochlorophyll c oligomerisation extent in Chloroflexus aurantiacus chlorosomes by very low-frequency vibrations of the pigment molecules: A new approach. Biophysical Chemistry, 2018, 240, 1-8.	1.5	8
54	Visible and Near Infrared Absorption Spectrum of the Excited Singlet State of Chlorophyll a. High Energy Chemistry, 2020, 54, 145-147.	0.2	8

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55	Mutant reaction centers of Rhodobacter sphaeroides I(L177)H with strongly bound bacteriochlorophyll a: Structural properties and pigment-protein interactions. Biochemistry (Moscow), 2009, 74, 68-74.	0.7	7
56	Primary processes of charge separation in reaction centers of YM210L/FM197Y and YM210L mutants of Rhodobacter sphaeroides. Biochemistry (Moscow), 2009, 74, 1203-1210.	0.7	7
57	Chemically modified reaction centers of photosystem II: Exchange of pheophytin a with 7-deformyl-7-hydroxymethyl-pheophytin b. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1870-1881.	0.5	7
58	Variability of aggregation extent of light-harvesting pigments in peripheral antenna of Chloroflexus aurantiacus. Photosynthesis Research, 2017, 133, 343-356.	1.6	7
59	Investigation of the Redox interaction between Mn-bicarbonate complexes and reaction centers from Rhodobacter sphaeroides R-26, Chromatium minutissimum, and Chloroflexus aurantiacus. Biochemistry (Moscow), 2011, 76, 1360-1366.	0.7	6
60	Primary steps of electron and energy transfer in photosystem I: Effect of excitation pulse wavelength. Biochemistry (Moscow), 2012, 77, 1011-1020.	0.7	6
61	Particular periodic solutions to a nonintegrable system of SchrÃ¶dinger nonlinear equations and their eigenvalues. Physics of Wave Phenomena, 2013, 21, 264-269.	0.3	6
62	Charge separation in Rhodobacter sphaeroides mutant reaction centers with increased midpoint potential of the primary electron donor. Biochemistry (Moscow), 2013, 78, 60-67.	0.7	6
63	Adiabatic modulation of a cnoidal wave by a breather with orthogonal circular polarization in an isotropic gyrotropic nonlinear medium. Optics Express, 2014, 22, 26607.	1.7	6
64	Low-temperature (77ÂK) phosphorescence of triplet chlorophyll in isolated reaction centers of photosystem II. Photosynthesis Research, 2015, 125, 43-49.	1.6	6
65	Towards an understanding of redox heterogeneity of the photosystem II cytochrome b559 in the native membrane. European Biophysics Journal, 2016, 45, 129-138.	1.2	6
66	Femtosecond stage of electron transfer in reaction centers of the triple mutant SL178K/GM203D/LM214H of Rhodobacter sphaeroides. Biochemistry (Moscow), 2010, 75, 412-422.	0.7	5
67	Properties of Rhodobacter sphaeroides photosynthetic reaction center with double amino acid substitution I(L177)H+H(M182)L. Biochemistry (Moscow), 2011, 76, 450-454.	0.7	5
68	Expression, purification, crystallization and preliminary X-ray structure analysis of wild-type and L(M196)H-mutantRhodobacter sphaeroidesreaction centres. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 506-509.	0.7	5
69	Visualisation of details of a complicated inner structure of model objects by the method of diffusion optical tomography. Quantum Electronics, 2002, 32, 941-944.	0.3	4
70	The effect of exchange of bacteriopheophytin a with plant pheophytin a on charge separation in Y(M210)W mutant reaction centers of Rhodobacter sphaeroides at low temperature. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1557, 1-12.	0.5	4
71	Substitution of Isoleucine M206 Residue by Histidine in the Rhodobacter sphaeroides Reaction Centers Causes Changes in the Structure of the Special Bacteriochlorophyll Pair Molecule. Doklady Biochemistry and Biophysics, 2004, 394, 26-29.	0.3	4
72	FTIR spectroscopy of the reaction center of Chloroflexus aurantiacus: Photooxidation of the primary electron donor. Biochemistry (Moscow), 2012, 77, 157-164.	0.7	4

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73	Adiabatic interaction of a cnoidal wave and a soliton with orthogonal circular polarizations in an isotropic gyrotropic nonlinear medium. Laser Physics Letters, 2014, 11, 115402.	0.6	4
74	Consistent dynamics of the components of an elliptically polarised wave with zero mean amplitudes in a nonlinear isotropic gyrotropic medium in the adiabatic approximation. Quantum Electronics, 2015, 45, 35-40.	0.3	4
75	Different effects of identical symmetry-related mutations near the bacteriochlorophyll dimer in the photosynthetic reaction center of Rhodobacter sphaeroides. Biochemistry (Moscow), 2015, 80, 647-653.	0.7	4
76	Spectral exhibition of electron-vibrational relaxation in P* state of Rhodobacter sphaeroides reaction centers. Photosynthesis Research, 2015, 125, 9-22.	1.6	4
77	Physical stage of photosynthesis charge separation. Physics-Uspekhi, 2016, 59, 531-557.	0.8	4
78	Ultrafast excitedâ€state dynamics in chlorosomes isolated from the photosynthetic filamentous green bacteriumChloroflexus aurantiacus. Physiologia Plantarum, 2019, 166, 12-21.	2.6	4
79	Femtosecond nuclear oscillations under charge separation in reaction centers of photosynthesis. Biochemistry (Moscow), 2003, 68, 541-550.	0.7	3
80	Dynamics of self-pumped double PC mirrors based on photorefractive nonlinearity. Quantum Electronics, 2004, 34, 467-472.	0.3	3
81	Primary charge separation in the reaction centers of Rhodobacter sphaeroides mutants L153HY and L153HY+M182HL. Doklady Biochemistry and Biophysics, 2008, 422, 319-324.	0.3	3
82	Domains of existence and asymptotics of complex periodic solutions of the stationary nonlinear SchrÃ¶dinger equation. Quantum Electronics, 2008, 38, 144-148.	0.3	3
83	Properties of photoreduction reaction of cytochrome b559 in photosystem II membrane fragments. Doklady Biochemistry and Biophysics, 2010, 432, 133-136.	0.3	3
84	Coherent phenomena of charge separation in reaction centers of LL131H and LL131H/LM160H/FM197H mutants of Rhodobacter sphaeroides. Biochemistry (Moscow), 2011, 76, 1107-1119.	0.7	3
85	Study of the nature of biphasic reduction of cytochrome b559 by plastoquinol in photosystem II membrane fragments. Doklady Biochemistry and Biophysics, 2012, 447, 273-276.	0.3	3
86	Primary radical ion pairs in photosystem II core complexes. Biochemistry (Moscow), 2014, 79, 197-204.	0.7	3
87	Structural and preliminary molecular dynamics studies of the Rhodobacter sphaeroides reaction center and its mutant form L(M196)H + H(M202)L. Crystallography Reports, 2014, 59, 536-541.	0.1	3
88	Adiabatic interaction between a dark soliton and a cnoidal wave with orthogonal circular polarizations in an isotropic gyrotropic nonlinear medium. Physics of Wave Phenomena, 2015, 23, 96-100.	0.3	3
89	The L(M196)H mutation in Rhodobacter sphaeroides reaction center results in new electrostatic interactions. Photosynthesis Research, 2015, 125, 23-29.	1.6	3
90	An alternative pathway of light-induced transmembrane electron transfer in photosynthetic reaction centers of Rhodobacter sphaeroides. Biochemistry (Moscow), 2017, 82, 692-697.	0.7	3

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91	Features of Bacteriochlorophylls Axial Ligation in the Photosynthetic Reaction Center of Purple Bacteria. Biochemistry (Moscow), 2019, 84, 370-379.	0.7	3
92	Coherent intradimer dynamics in reaction centers of photosynthetic green bacterium Chloroflexus aurantiacus. Scientific Reports, 2020, 10, 228.	1.6	3
93	Condensation of vibrational excitation and properties of Raman scattering by conjugated-polymer chains. Quantum Electronics, 2003, 33, 219-225.	0.3	2
94	Features of the dynamics of self-pumped loop phase-conjugate mirrors based on a photorefractive crystal. Quantum Electronics, 2005, 35, 658-662.	0.3	2
95	Spectral, temporal and temperature features of the nonlinear response of high-temperature superconductors in transient nonlinear spectroscopy. Quantum Electronics, 2006, 36, 895-917.	0.3	2
96	Nonlinear SchrÃ¶dinger equation and multicomponent cnoidal waves in parametric frequency conversion. Quantum Electronics, 2007, 37, 266-272.	0.3	2
97	The PS II complex possesses a quinone-binding site that differs from QA and QB and interacts with cytochrome b559. Doklady Biochemistry and Biophysics, 2007, 412, 12-14.	0.3	2
98	Multicomponent cnoidal waves in cascade parametric frequency conversion. Quantum Electronics, 2008, 38, 1135-1141.	0.3	2
99	Dynamics of photorefractive self-pumped phase-conjugate mirrors with a linear resonator. Quantum Electronics, 2008, 38, 377-382.	0.3	2
100	Effective cubic nonlinearity, photoinduced anisotropy, and elliptically polarised cnoidal waves upon frequency doubling. Quantum Electronics, 2009, 39, 1137-1142.	0.3	2
101	Chemical modification of photosystem II core complex pigments with sodium borohydride. Biochemistry (Moscow), 2013, 78, 377-384.	0.7	2
102	An Airy beam as a self-similar solution to the problem of slit laser beam propagation in a linear medium and in a photorefractive crystal with diffusion nonlinearity. Quantum Electronics, 2013, 43, 931-935.	0.3	2
103	Temperature dependence of light-induced absorbance changes associated with chlorophyll photooxidation in manganese-depleted core complexes of photosystem II. Biochemistry (Moscow), 2015, 80, 1279-1287.	0.7	2
104	Analysis of the transformation effect in cytochrome b559 of photosystem II in terms of the model of the heme-quinone redox interaction. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 1161-1172.	0.5	2
105	Properties of Rhodobacter sphaeroides Reaction Centers with the Ileâ†'Tyr Substitution at Positions L177 and M206. Biochemistry (Moscow), 2019, 84, 570-574.	0.7	2
106	Spectral and Photochemical Properties of Rhodobacter sphaeroides R-26 Reaction Center Films in Vacuum. Biochemistry (Moscow), 2019, 84, 1107-1115.	0.7	2
107	The molecular chain of electron transfer in the primary act of bacterial photosynthesis as determined using femtosecond spectroscopy. Doklady Biological Sciences, 2002, 385, 299-305.	0.2	1
108	Fast path-integration technique in simulation of light propagation through highly scattering objects. Quantum Electronics, 2004, 34, 547-553.	0.3	1

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109	Dynamics of a photorefractive response and competition of nonlinear processes in self-pumping double phase-conjugate mirrors. Quantum Electronics, 2005, 35, 862-866.	0.3	1
110	Stability of the Henyeyâ€"Greenstein phase function and fast path integration under conditions of multiple light scattering. Quantum Electronics, 2006, 36, 1039-1042.	0.3	1
111	A new look on the formation and interaction of elementary particles in atoms and molecules including photoreaction centers. Photosynthesis Research, 2008, 98, 219-227.	1.6	1
112	Role of photons in the formation and interaction of elementary particles in atoms of biological molecules. Doklady Physics, 2008, 53, 323-327.	0.2	1
113	Femtobiology: Primary photosynthesis processes. Herald of the Russian Academy of Sciences, 2011, 81, 265-270.	0.2	1
114	Towards an understanding of the nature of the redox forms of cytochrome b559 in photosystem II. Doklady Biochemistry and Biophysics, 2013, 450, 151-154.	0.3	1
115	Differential visualisation of a spectrally selective structure of strongly scattering objects. Quantum Electronics, 2014, 44, 652-656.	0.3	1
116	My journey in photosynthesis research. Photosynthesis Research, 2015, 125, 5-8.	1.6	1
117	Orientation of B798 BChl a Q y transition dipoles in Chloroflexus aurantiacus chlorosomes: polarized transient absorption spectroscopy studies. Photosynthesis Research, 2015, 125, 31-42.	1.6	1
118	Femtosecond relaxation processes in Rhodobacter sphaeroides reaction centers. Biochemistry (Moscow), 2017, 82, 906-915.	0.7	1
119	Effect of Leucine M196 Substitution by Histidine on Electronic Structure of the Primary Electron Donor and Electron Transfer in Reaction Centers from Rhodobacter sphaeroides. Biochemistry (Moscow), 2019, 84, 520-528.	0.7	1
120	Mutation H(M202)L does not lead to the formation of a heterodimer of the primary electron donor in reaction centers of Rhodobacter sphaeroides when combined with mutation I(M206)H. Photosynthesis Research, 2020, 146, 109-121.	1.6	1
121	<title>Long-living meta-stable non-equilibrium states of HTSC compounds in transient four-photon spectroscopy</title>. , 2005, , .		0
122	<title>Writing the regular domain structures in ultra-thin ferromagnetic films by short trains of ultra-short laser pulses</title>. , 2005, 5850, 294.		0
123	<title>Ultra-fast calculation scheme for small-angle multi-scattering problems</title>. , 2005, 5850, 218.		0
124	Coherent Electron Transfer in the Primary Act of Bacterial Photosynthesis: A Model Based on Redfield Theory. Doklady Biochemistry and Biophysics, 2005, 402, 243-247.	0.3	0
125	Quantum yield of charge separation and fluorescence in photosystem II of green plants. Doklady Biochemistry and Biophysics, 2007, 416, 268-270.	0.3	0
126	Femtosecond phase of charge separation in reaction centers of Chloroflexus aurantiacus. Biochemistry (Moscow), 2009, 74, 846-854.	0.7	0

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127	Theorem about electron energy in many-electron atoms in biological molecules. Doklady Biochemistry and Biophysics, 2010, 434, 232-234.	0.3	0
128	Effective cubic nonlinearity and cnoidal waves in the degenerate parametric frequency conversion. Quantum Electronics, 2010, 40, 219-222.	0.3	0
129	Efficient cascade quasi-synchronous parametric generation with up-conversion. Quantum Electronics, 2010, 40, 329-334.	0.3	0
130	Optimal feedback in efficient single-cavity optical parametric oscillators. Quantum Electronics, 2010, 40, 619-623.	0.3	0
131	Reversible charge separation in reaction centers of photosynthesis: A classical model. Doklady Biochemistry and Biophysics, 2013, 450, 143-146.	0.3	0
132	Electronic relaxation in P* state of Rhodobacter sphaeroides reaction centers. Doklady Biochemistry and Biophysics, 2015, 461, 72-75.	0.3	0
133	Spectral representation of adiabatic interaction of cnoidal waves in an isotropic gyrotropic nonlinear medium. Quantum Electronics, 2016, 46, 578-580.	0.3	0
134	New interpretation of the redox properties of cytochrome b559 in photosystem II. Doklady Biochemistry and Biophysics, 2016, 466, 39-42.	0.3	0
135	Elliptically polarized breather in the nonintegrable problem of laser radiation propagation through an isotropic gyrotropic nonlinear medium. Physics of Wave Phenomena, 2017, 25, 20-23.	0.3	0
136	Algorithm for Extracting Weak Bands Kinetics from the Transient Absorption Spectra of the Rhodobacter sphaeroides Reaction Center. Biochemistry (Moscow), 2019, 84, 644-651.	0.7	0