

# Vladimir Shuvalov

## List of Publications by Year in descending order

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136  
papers

1,920  
citations

257357

24  
h-index

289141

40  
g-index

137  
all docs

137  
docs citations

137  
times ranked

1194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of ion-radical chlorophyll states in the light-harvesting antenna and the reaction center of cyanobacterial photosystem I. <i>Photosynthesis Research</i> , 2020, 146, 55-73.	1.6	13
2	Mutation H(M202)L does not lead to the formation of a heterodimer of the primary electron donor in reaction centers of <i>Rhodobacter sphaeroides</i> when combined with mutation I(M206)H. <i>Photosynthesis Research</i> , 2020, 146, 109-121.	1.6	1
3	Coherent intradimer dynamics in reaction centers of photosynthetic green bacterium <i>Chloroflexus aurantiacus</i> . <i>Scientific Reports</i> , 2020, 10, 228.	1.6	3
4	Visible and Near Infrared Absorption Spectrum of the Excited Singlet State of Chlorophyll a. <i>High Energy Chemistry</i> , 2020, 54, 145-147.	0.2	8
5	Effect of Leucine M196 Substitution by Histidine on Electronic Structure of the Primary Electron Donor and Electron Transfer in Reaction Centers from <i>Rhodobacter sphaeroides</i> . <i>Biochemistry (Moscow)</i> , 2019, 84, 520-528.	0.7	1
6	Features of Bacteriochlorophylls Axial Ligation in the Photosynthetic Reaction Center of Purple Bacteria. <i>Biochemistry (Moscow)</i> , 2019, 84, 370-379.	0.7	3
7	Algorithm for Extracting Weak Bands Kinetics from the Transient Absorption Spectra of the <i>Rhodobacter sphaeroides</i> Reaction Center. <i>Biochemistry (Moscow)</i> , 2019, 84, 644-651.	0.7	0
8	Properties of <i>Rhodobacter sphaeroides</i> Reaction Centers with the Ile $\rightarrow$ Tyr Substitution at Positions L177 and M206. <i>Biochemistry (Moscow)</i> , 2019, 84, 570-574.	0.7	2
9	Spectral and Photochemical Properties of <i>Rhodobacter sphaeroides</i> R-26 Reaction Center Films in Vacuum. <i>Biochemistry (Moscow)</i> , 2019, 84, 1107-1115.	0.7	2
10	Ultrafast excited-state dynamics in chlorosomes isolated from the photosynthetic filamentous green bacterium <i>Chloroflexus aurantiacus</i> . <i>Physiologia Plantarum</i> , 2019, 166, 12-21.	2.6	4
11	Vyacheslav (Slava) Klimov (1945–2017): A scientist par excellence, a great human being, a friend, and a Renaissance man. <i>Photosynthesis Research</i> , 2018, 136, 1-16.	1.6	10
12	Estimation of the bacteriochlorophyll c oligomerisation extent in <i>Chloroflexus aurantiacus</i> chlorosomes by very low-frequency vibrations of the pigment molecules: A new approach. <i>Biophysical Chemistry</i> , 2018, 240, 1-8.	1.5	8
13	Analysis of the transformation effect in cytochrome b559 of photosystem II in terms of the model of the heme-quinone redox interaction. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 1161-1172.	0.5	2
14	Variability of aggregation extent of light-harvesting pigments in peripheral antenna of <i>Chloroflexus aurantiacus</i> . <i>Photosynthesis Research</i> , 2017, 133, 343-356.	1.6	7
15	Excitation of photosystem I by 760 nm femtosecond laser pulses: transient absorption spectra and intermediates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 174001.	0.6	8
16	Femtosecond relaxation processes in <i>Rhodobacter sphaeroides</i> reaction centers. <i>Biochemistry (Moscow)</i> , 2017, 82, 906-915.	0.7	1
17	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. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 895-905.	0.5	37
18	An alternative pathway of light-induced transmembrane electron transfer in photosynthetic reaction centers of <i>Rhodobacter sphaeroides</i> . <i>Biochemistry (Moscow)</i> , 2017, 82, 692-697.	0.7	3

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19	Elliptically polarized breather in the nonintegrable problem of laser radiation propagation through an isotropic gyrotropic nonlinear medium. <i>Physics of Wave Phenomena</i> , 2017, 25, 20-23.	0.3	0
20	Physical stage of photosynthesis charge separation. <i>Physics-Uspexhi</i> , 2016, 59, 531-557.	0.8	4
21	Characterization of the low-temperature triplet state of chlorophyll in photosystem II core complexes: Application of phosphorescence measurements and Fourier transform infrared spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 782-788.	0.5	15
22	Spectral representation of adiabatic interaction of cnoidal waves in an isotropic gyrotropic nonlinear medium. <i>Quantum Electronics</i> , 2016, 46, 578-580.	0.3	0
23	New interpretation of the redox properties of cytochrome b559 in photosystem II. <i>Doklady Biochemistry and Biophysics</i> , 2016, 466, 39-42.	0.3	0
24	Towards an understanding of redox heterogeneity of the photosystem II cytochrome b559 in the native membrane. <i>European Biophysics Journal</i> , 2016, 45, 129-138.	1.2	6
25	Temperature dependence of light-induced absorbance changes associated with chlorophyll photooxidation in manganese-depleted core complexes of photosystem II. <i>Biochemistry (Moscow)</i> , 2015, 80, 1279-1287.	0.7	2
26	Adiabatic interaction between a dark soliton and a cnoidal wave with orthogonal circular polarizations in an isotropic gyrotropic nonlinear medium. <i>Physics of Wave Phenomena</i> , 2015, 23, 96-100.	0.3	3
27	My journey in photosynthesis research. <i>Photosynthesis Research</i> , 2015, 125, 5-8.	1.6	1
28	Consistent dynamics of the components of an elliptically polarised wave with zero mean amplitudes in a nonlinear isotropic gyrotropic medium in the adiabatic approximation. <i>Quantum Electronics</i> , 2015, 45, 35-40.	0.3	4
29	The L(M196)H mutation in <i>Rhodobacter sphaeroides</i> reaction center results in new electrostatic interactions. <i>Photosynthesis Research</i> , 2015, 125, 23-29.	1.6	3
30	Elastic Vibrations in the Photosynthetic Bacterial Reaction Center Coupled to the Primary Charge Separation: Implications from Molecular Dynamics Simulations and Stochastic Langevin Approach. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13656-13667.	1.2	9
31	Different effects of identical symmetry-related mutations near the bacteriochlorophyll dimer in the photosynthetic reaction center of <i>Rhodobacter sphaeroides</i> . <i>Biochemistry (Moscow)</i> , 2015, 80, 647-653.	0.7	4
32	Low-temperature (77ÅK) phosphorescence of triplet chlorophyll in isolated reaction centers of photosystem II. <i>Photosynthesis Research</i> , 2015, 125, 43-49.	1.6	6
33	Electronic relaxation in P* state of <i>Rhodobacter sphaeroides</i> reaction centers. <i>Doklady Biochemistry and Biophysics</i> , 2015, 461, 72-75.	0.3	0
34	Orientation of B798 BChl a Q y transition dipoles in <i>Chloroflexus aurantiacus</i> chlorosomes: polarized transient absorption spectroscopy studies. <i>Photosynthesis Research</i> , 2015, 125, 31-42.	1.6	1
35	Spectral exhibition of electron-vibrational relaxation in P* state of <i>Rhodobacter sphaeroides</i> reaction centers. <i>Photosynthesis Research</i> , 2015, 125, 9-22.	1.6	4
36	Adiabatic modulation of a cnoidal wave by a breather with orthogonal circular polarization in an isotropic gyrotropic nonlinear medium. <i>Optics Express</i> , 2014, 22, 26607.	1.7	6

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37	Differential visualisation of a spectrally selective structure of strongly scattering objects. <i>Quantum Electronics</i> , 2014, 44, 652-656.	0.3	1
38	Evidence that histidine forms a coordination bond to the A0A and A0B chlorophylls and a second H-bond to the A1A and A1B phyloquinones in M688HPsaA and M668HPsaB variants of <i>Synechocystis</i> sp. PCC 6803. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1362-1375.	0.5	32
39	Formation and decay of P680 (PD1 $\leftrightarrow$ PD2)+PheoD1 $\dot{\sim}$ radical ion pair in photosystem II core complexes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1384-1388.	0.5	10
40	Primary radical ion pairs in photosystem II core complexes. <i>Biochemistry (Moscow)</i> , 2014, 79, 197-204.	0.7	3
41	Modeling of reversible charge separation in reaction centers of photosynthesis: An incoherent approach. <i>Journal of Theoretical Biology</i> , 2014, 343, 92-101.	0.8	8
42	Structural and preliminary molecular dynamics studies of the <i>Rhodobacter sphaeroides</i> reaction center and its mutant form L(M196)H + H(M202)L. <i>Crystallography Reports</i> , 2014, 59, 536-541.	0.1	3
43	Adiabatic interaction of a cnoidal wave and a soliton with orthogonal circular polarizations in an isotropic gyrotropic nonlinear medium. <i>Laser Physics Letters</i> , 2014, 11, 115402.	0.6	4
44	Chemically modified reaction centers of photosystem II: Exchange of pheophytin a with 7-deformyl-7-hydroxymethyl-pheophytin b. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1870-1881.	0.5	7
45	Approximate solutions to a nonintegrable problem of propagation of elliptically polarised waves in an isotropic gyrotropic nonlinear medium, and periodic analogues of multisoliton complexes. <i>Quantum Electronics</i> , 2014, 44, 130-134.	0.3	8
46	Towards an understanding of the nature of the redox forms of cytochrome b559 in photosystem II. <i>Doklady Biochemistry and Biophysics</i> , 2013, 450, 151-154.	0.3	1
47	Reversible charge separation in reaction centers of photosynthesis: A classical model. <i>Doklady Biochemistry and Biophysics</i> , 2013, 450, 143-146.	0.3	0
48	Chemical modification of photosystem II core complex pigments with sodium borohydride. <i>Biochemistry (Moscow)</i> , 2013, 78, 377-384.	0.7	2
49	Particular periodic solutions to a nonintegrable system of Schrödinger nonlinear equations and their eigenvalues. <i>Physics of Wave Phenomena</i> , 2013, 21, 264-269.	0.3	6
50	Biphasic reduction of cytochrome b559 by plastoquinol in photosystem II membrane fragments. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 471-483.	0.5	19
51	Charge separation in <i>Rhodobacter sphaeroides</i> mutant reaction centers with increased midpoint potential of the primary electron donor. <i>Biochemistry (Moscow)</i> , 2013, 78, 60-67.	0.7	6
52	Expression, purification, crystallization and preliminary X-ray structure analysis of wild-type and L(M196)H-mutant <i>Rhodobacter sphaeroides</i> reaction centres. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 506-509.	0.7	5
53	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. <i>Quantum Electronics</i> , 2013, 43, 931-935.	0.3	2
54	Chirped elliptically polarised cnoidal waves and polarisation 'chaos' in an isotropic medium with spatial dispersion of cubic nonlinearity. <i>Quantum Electronics</i> , 2012, 42, 1118-1122.	0.3	11

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55	Study of the nature of biphasic reduction of cytochrome b559 by plastoquinol in photosystem II membrane fragments. <i>Doklady Biochemistry and Biophysics</i> , 2012, 447, 273-276.	0.3	3
56	The site-directed mutation I(L177)H in <i>Rhodobacter sphaeroides</i> reaction center affects coordination of PA and BB bacteriochlorophylls. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1407-1417.	0.5	17
57	Elliptically polarised cnoidal waves in a medium with spatial dispersion of cubic nonlinearity. <i>Quantum Electronics</i> , 2012, 42, 117-119.	0.3	14
58	FTIR spectroscopy of the reaction center of <i>Chloroflexus aurantiacus</i> : Photooxidation of the primary electron donor. <i>Biochemistry (Moscow)</i> , 2012, 77, 157-164.	0.7	4
59	Primary steps of electron and energy transfer in photosystem I: Effect of excitation pulse wavelength. <i>Biochemistry (Moscow)</i> , 2012, 77, 1011-1020.	0.7	6
60	Primary charge separation within P870* in wild type and heterodimer mutants in femtosecond time domain. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1392-1398.	0.5	18
61	Femtosecond charge separation in dry films of reaction centers of <i>Rhodobacter sphaeroides</i> and <i>Chloroflexus aurantiacus</i> . <i>Biochemistry (Moscow)</i> , 2012, 77, 444-455.	0.7	8
62	Properties of <i>Rhodobacter sphaeroides</i> photosynthetic reaction center with double amino acid substitution I(L177)H+H(M182)L. <i>Biochemistry (Moscow)</i> , 2011, 76, 450-454.	0.7	5
63	Coherent phenomena of charge separation in reaction centers of LL131H and LL131H/LM160H/FM197H mutants of <i>Rhodobacter sphaeroides</i> . <i>Biochemistry (Moscow)</i> , 2011, 76, 1107-1119.	0.7	3
64	Investigation of the Redox interaction between Mn-bicarbonate complexes and reaction centers from <i>Rhodobacter sphaeroides</i> R-26, <i>Chromatium minutissimum</i> , and <i>Chloroflexus aurantiacus</i> . <i>Biochemistry (Moscow)</i> , 2011, 76, 1360-1366.	0.7	6
65	Structure-function investigations of bacterial photosynthetic reaction centers. <i>Biochemistry (Moscow)</i> , 2011, 76, 1465-1483.	0.7	22
66	FTIR spectroscopy of the reaction center of <i>Chloroflexus aurantiacus</i> : Photoreduction of the bacteriopheophytin electron acceptor. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 1013-1021.	0.5	9
67	Femtobiology: Primary photosynthesis processes. <i>Herald of the Russian Academy of Sciences</i> , 2011, 81, 265-270.	0.2	1
68	P680 (PD1PD2) and ChlD1 as alternative electron donors in photosystem II core complexes and isolated reaction centers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011, 104, 44-50.	1.7	51
69	Femtosecond absorption band formation at 1080 and 1020 nm as an indication of charge-separated states $P^+A^-$ and $P^+B^-$ in photosynthetic reaction centers of the Purple bacterium <i>Rhodobacter sphaeroides</i> . <i>Doklady Biochemistry and Biophysics</i> , 2010, 430, 24-28.	0.3	9
70	Properties of photoreduction reaction of cytochrome b559 in photosystem II membrane fragments. <i>Doklady Biochemistry and Biophysics</i> , 2010, 432, 133-136.	0.3	3
71	Theorem about electron energy in many-electron atoms in biological molecules. <i>Doklady Biochemistry and Biophysics</i> , 2010, 434, 232-234.	0.3	0
72	Femtosecond primary charge separation in <i>Synechocystis</i> sp. PCC 6803 photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1410-1420.	0.5	95

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73	Predicted bacteriorhodopsin from <i>Exiguobacterium sibiricum</i> is a functional proton pump. FEBS Letters, 2010, 584, 4193-4196.	1.3	62
74	Examination of stability of mutant photosynthetic reaction center of <i>Rhodobacter sphaeroides</i> I(L177)H and determination of location of bacteriochlorophyll covalently bound to the protein. Biochemistry (Moscow), 2010, 75, 208-213.	0.7	8
75	Femtosecond stage of electron transfer in reaction centers of the triple mutant SL178K/GM203D/LM214H of <i>Rhodobacter sphaeroides</i> . Biochemistry (Moscow), 2010, 75, 412-422.	0.7	5
76	Primary electron transfer in reaction centers of YM210L and YM210L/HL168L mutants of <i>Rhodobacter sphaeroides</i> . Biochemistry (Moscow), 2010, 75, 832-840.	0.7	8
77	Effective cubic nonlinearity and cnoidal waves in the degenerate parametric frequency conversion. Quantum Electronics, 2010, 40, 219-222.	0.3	0
78	Efficient cascade quasi-synchronous parametric generation with up-conversion. Quantum Electronics, 2010, 40, 329-334.	0.3	0
79	Optimal feedback in efficient single-cavity optical parametric oscillators. Quantum Electronics, 2010, 40, 619-623.	0.3	0
80	Effective cubic nonlinearity, photoinduced anisotropy, and elliptically polarised cnoidal waves upon frequency doubling. Quantum Electronics, 2009, 39, 1137-1142.	0.3	2
81	Mutant reaction centers of <i>Rhodobacter sphaeroides</i> I(L177)H with strongly bound bacteriochlorophyll a: Structural properties and pigment-protein interactions. Biochemistry (Moscow), 2009, 74, 68-74.	0.7	7
82	Properties of mutant reaction centers of <i>Rhodobacter sphaeroides</i> with substitutions of histidine L153, the axial Mg <sup>2+</sup> ligand of bacteriochlorophyll BA. Biochemistry (Moscow), 2009, 74, 452-460.	0.7	8
83	Femtosecond phase of charge separation in reaction centers of <i>Chloroflexus aurantiacus</i> . Biochemistry (Moscow), 2009, 74, 846-854.	0.7	0
84	Primary processes of charge separation in reaction centers of YM210L/FM197Y and YM210L mutants of <i>Rhodobacter sphaeroides</i> . Biochemistry (Moscow), 2009, 74, 1203-1210.	0.7	7
85	Primary light-energy conversion in tetrameric chlorophyll structure of photosystem II and bacterial reaction centers: I. A review. Photosynthesis Research, 2008, 98, 81-93.	1.6	12
86	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
87	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
88	Primary charge separation in the reaction centers of <i>Rhodobacter sphaeroides</i> mutants L153HY and L153HY+M182HL. Doklady Biochemistry and Biophysics, 2008, 422, 319-324.	0.3	3
89	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
90	WAVE PACKET MOTIONS COUPLED TO ELECTRON TRANSFER IN REACTION CENTERS OF <i>CHLOROFLEXUS AURANTIACUS</i> . Journal of Bioinformatics and Computational Biology, 2008, 06, 643-666.	0.3	9

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91	Multicomponent cnoidal waves in cascade parametric frequency conversion. <i>Quantum Electronics</i> , 2008, 38, 1135-1141.	0.3	2
92	Domains of existence and asymptotics of complex periodic solutions of the stationary nonlinear Schrödinger equation. <i>Quantum Electronics</i> , 2008, 38, 144-148.	0.3	3
93	Dynamics of photorefractive self-pumped phase-conjugate mirrors with a linear resonator. <i>Quantum Electronics</i> , 2008, 38, 377-382.	0.3	2
94	Activation of mechanisms of photoprotection by desiccation and by light: poikilohydric photoautotrophs*. <i>Journal of Experimental Botany</i> , 2007, 58, 2745-2759.	2.4	68
95	Nonlinear Schrödinger equation and multicomponent cnoidal waves in parametric frequency conversion. <i>Quantum Electronics</i> , 2007, 37, 266-272.	0.3	2
96	Substitution of isoleucine L177 by histidine in <i>Rhodobacter sphaeroides</i> reaction center results in the covalent binding of P <sub>A</sub> bacteriochlorophyll to the L subunit. <i>FEBS Letters</i> , 2007, 581, 5769-5773.	1.3	21
97	Evidence for a Novel Quinone-Binding Site in the Photosystem II (PS II) Complex That Regulates the Redox Potential of Cytochrome b559. <i>Biochemistry</i> , 2007, 46, 1091-1105.	1.2	74
98	Electron and nuclear dynamics in many-electron atoms, molecules and chlorophyll-protein complexes: A review. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 422-433.	0.5	11
99	Two reaction pathways for transformation of high potential cytochrome b559 of PS II into the intermediate potential form. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 550-558.	0.5	30
100	The PS II complex possesses a quinone-binding site that differs from QA and QB and interacts with cytochrome b559. <i>Doklady Biochemistry and Biophysics</i> , 2007, 412, 12-14.	0.3	2
101	Quantum yield of charge separation and fluorescence in photosystem II of green plants. <i>Doklady Biochemistry and Biophysics</i> , 2007, 416, 268-270.	0.3	0
102	Vibrational coherence in bacterial reaction centers with genetically modified B-branch pigment composition. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 369-379.	0.5	17
103	Stability of the Henyey-Greenstein phase function and fast path integration under conditions of multiple light scattering. <i>Quantum Electronics</i> , 2006, 36, 1039-1042.	0.3	1
104	Spectral, temporal and temperature features of the nonlinear response of high-temperature superconductors in transient nonlinear spectroscopy. <i>Quantum Electronics</i> , 2006, 36, 895-917.	0.3	2
105	Thermal energy dissipation in reaction centres and in the antenna of photosystem II protects desiccated poikilohydric mosses against photo-oxidation. <i>Journal of Experimental Botany</i> , 2006, 57, 2993-3006.	2.4	96
106	Conservation and dissipation of light energy as complementary processes: homoiohydric and poikilohydric autotrophs. <i>Journal of Experimental Botany</i> , 2006, 57, 1211-1223.	2.4	100
107	<title>Long-living meta-stable non-equilibrium states of HTSC compounds in transient four-photon spectroscopy</title>. , 2005, , .		0
108	<title>Writing the regular domain structures in ultra-thin ferromagnetic films by short trains of ultra-short laser pulses</title>. , 2005, 5850, 294.		0

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109	<title>Ultra-fast calculation scheme for small-angle multi-scattering problems</title>. , 2005, 5850, 218.		0
110	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
111	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
112	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
113	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
114	Reaction pattern of Photosystem II: oxidative water cleavage and protein flexibility. Photosynthesis Research, 2005, 84, 317-323.	1.6	32
115	Photochemical reactions of chlorophyll in dehydrated Photosystem II: two chlorophyll forms (680) Tj ETQq1 1 0.784314 rgBT /Overlook	1.6	48
116	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
117	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
118	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
119	Dynamics of self-pumped double PC mirrors based on photorefractive nonlinearity. Quantum Electronics, 2004, 34, 467-472.	0.3	3
120	Fast path-integration technique in simulation of light propagation through highly scattering objects. Quantum Electronics, 2004, 34, 547-553.	0.3	1
121	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
122	Coherent Nuclear and Electronic Dynamics in Primary Charge Separation in Photosynthetic Reaction Centers: A Redfield Theory Approach. Journal of Physical Chemistry B, 2004, 108, 7445-7457.	1.2	118
123	Energy and Electron Transfer in Photosystem II Reaction Centers with Modified Pheophytin Composition. Biophysical Journal, 2004, 86, 1664-1672.	0.2	23
124	Femtosecond nuclear oscillations under charge separation in reaction centers of photosynthesis. Biochemistry (Moscow), 2003, 68, 541-550.	0.7	3
125	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
126	Photochemical reactions in dehydrated photosynthetic organisms, leaves, chloroplasts and photosystem II particles: reversible reduction of pheophytin and chlorophyll and oxidation of $\beta$ -carotene. Chemical Physics, 2003, 294, 227-237.	0.9	28



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127	Electric Field Effects on the Chlorophylls, Pheophytins, and $\beta$ -Carotenes in the Reaction Center of Photosystem II. <i>Biochemistry</i> , 2003, 42, 9205-9213.	1.2	71
128	Mechanism of Charge Separation and Stabilization of Separated Charges in Reaction Centers of <i>Chloroflexus aurantiacus</i> and of YM210W(L) Mutants of <i>Rhodobacter sphaeroides</i> Excited by 20 fs Pulses at 90 K. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8330-8338.	1.1	41
129	Coupling of nuclear wavepacket motion and charge separation in bacterial reaction centers. <i>FEBS Letters</i> , 2003, 540, 26-34.	1.3	58
130	The effect of exchange of bacteriopheophytin a with plant pheophytin a on charge separation in Y(M210)W mutant reaction centers of <i>Rhodobacter sphaeroides</i> at low temperature. <i>Biochimica et Biophysica Acta - Bioenergetics</i> , 2003, 1557, 1-12.	0.5	4
131	Effect of Dehydration on Light-Induced Reactions in Photosystem II: Photoreactions of Cytochrome b559. <i>Biochemistry</i> , 2003, 42, 8119-8132.	1.2	30
132	Condensation of vibrational excitation and properties of Raman scattering by conjugated-polymer chains. <i>Quantum Electronics</i> , 2003, 33, 219-225.	0.3	2
133	Visualisation of details of a complicated inner structure of model objects by the method of diffusion optical tomography. <i>Quantum Electronics</i> , 2002, 32, 941-944.	0.3	4
134	Nuclear Wavepacket Motion between $P^*$ and $P+BA$ -Potential Surfaces with Subsequent Electron Transfer to HA in Bacterial Reaction Centers. 1. Room Temperature. <i>Biochemistry</i> , 2002, 41, 2667-2674.	1.2	58
135	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. <i>Electron Transfer Pathway</i> . <i>Biochemistry</i> , 2002, 41, 14019-14027.	1.2	58
136	The molecular chain of electron transfer in the primary act of bacterial photosynthesis as determined using femtosecond spectroscopy. <i>Doklady Biological Sciences</i> , 2002, 385, 299-305.	0.2	1