

Roman Y Pishchalnikov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The effect of natural as well as artificial magnetic fields on the cardiovascular system of healthy volunteers and patients with cardiovascular pathology. , 2022, , 581-609.		0
2	Searching for a Unique Exciton Model of Photosynthetic Pigment-Protein Complexes: Photosystem II Reaction Center Study by Differential Evolution. Mathematics, 2022, 10, 959.	2.2	3
3	Improvement of Winter Graft Techniques Using Cold Plasma and Plasma-Treated Solution on Cherry Cultures. Applied Sciences (Switzerland), 2022, 12, 4953.	2.5	6
4	A Theoretical Analysis of Relations between Pressure Changes along Xylem Vessels and Propagation of Variation Potential in Higher Plants. Plants, 2021, 10, 372.	3.5	8
5	The Effect of Plant Growth Compensation by Adding Silicon-Containing Fertilizer under Light Stress Conditions. Plants, 2021, 10, 1287.	3.5	18
6	The Relationship between the Spatial Arrangement of Pigments and Exciton Transition Moments in Photosynthetic Light-Harvesting Complexes. International Journal of Molecular Sciences, 2021, 22, 10031.	4.1	0
7	Photosynthetic pigment-protein complexes optical response modeling optimized by Differential evolution: algorithm convergence study. Journal of Physics: Conference Series, 2021, 2090, 012028.	0.4	1
8	A Novel Biodegradable Composite Polymer Material Based on PLGA and Silver Oxide Nanoparticles with Unique Physicochemical Properties and Biocompatibility with Mammalian Cells. Materials, 2021, 14, 6915.	2.9	13
9	Optimizing the Multimode Brownian Oscillator Model for the Optical Response of Carotenoids in Solution by Fine Tuning of Differential Evolution. Lobachevskii Journal of Mathematics, 2020, 41, 1545-1553.	0.9	3
10	The role of vibronic modes in formation of red antenna states of cyanobacterial PSI. Photosynthesis Research, 2020, 146, 75-86.	2.9	4
11	Single Molecule Fluorescence Spectroscopy of PSI Trimers from Arthrospira platensis: A Computational Approach. Molecules, 2019, 24, 822.	3.8	7
12	Cardiovascular response as a marker of environmental stress caused by variations in geomagnetic field and local weather. Biomedical Signal Processing and Control, 2019, 51, 401-410.	5.7	16
13	Structural peculiarities of keto-carotenoids in water-soluble proteins revealed by simulation of linear absorption. Physical Chemistry Chemical Physics, 2019, 21, 25707-25719.	2.8	18
14	Orange Carotenoid Protein Absorption Spectra Simulation Using the Differential Evolution Algorithm. Communications in Computer and Information Science, 2019, , 302-312.	0.5	3
15	Geomagnetic storm under laboratory conditions: randomized experiment. International Journal of Biometeorology, 2018, 62, 501-512.	3.0	17
16	Application of the differential evolution for simulation of the linear optical response of photosynthetic pigments. Journal of Computational Physics, 2018, 372, 603-615.	3.8	19
17	Spectral differences between monomers and trimers of photosystem I depend on the interaction between peripheral chlorophylls of neighboring monomers in trimer. Physics of Wave Phenomena, 2017, 25, 185-195.	1.1	10
18	Effect of zero magnetic field on cardiovascular system and microcirculation. Life Sciences in Space Research, 2016, 8, 1-7.	2.3	25

#	ARTICLE	IF	CITATIONS
19	From localized excited states to excitons: Changing of conceptions of primary photosynthetic processes in the twentieth century. <i>Biochemistry (Moscow)</i> , 2014, 79, 242-250.	1.5	9
20	Oxygenic Photosynthesis in Cyanobacteria. , 2013, , 3-40.		23
21	H2O and D2O spin-isomers as a mediator of the electron transfer in the reaction center of purple bacteria. <i>Physics of Wave Phenomena</i> , 2012, 20, 184-192.	1.1	4
22	Quantum differences of ortho/para H2O spin-isomers as a factor of the femtosecond charge separation kinetics modulation in the reaction center of purple bacteria. <i>Biophysics (Russian)</i> Tj ETQq0 0 0 rgBT /Overlock 104f 50 617		
23	Spectroscopic evidence for the effect of the ortho H2O spin on the electron transfer in photosynthesis. <i>Physics of Wave Phenomena</i> , 2012, 20, 35-44.	1.1	6
24	Two-photon excitation spectrum of fluorescence of the light-harvesting complex B800â€“850 from <i>Allochrocatium minutissimum</i> within 1200â€“1500 (600â€“750) nm spectral range is not carotenoid mediated. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2009, 3, 116-122.	0.6	2
25	Theoretical Modeling of the Optical Properties and Exciton Dynamics of the PSII Reaction Center. , 2008, , 163-166.		1
26	Relaxation dynamics of the LH2 complex from a photosynthetic purple bacterium <i>Thiorhodospira sibirica</i> studied by the near-IR femtosecond pump-probe method. <i>Quantum Electronics</i> , 2005, 35, 107-110.	1.0	2
27	Evaluation of combined effects of lunar gravity simulation and the altered magnetic field on cardiovascular system of healthy volunteers. <i>Frontiers in Physiology</i> , 0, 9, .	2.8	1