

Roman Y Pishchalnikov

List of Publications by Year in descending order

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papers

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docs citations

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197
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of zero magnetic field on cardiovascular system and microcirculation. <i>Life Sciences in Space Research</i> , 2016, 8, 1-7.	2.3	25
2	Oxygenic Photosynthesis in Cyanobacteria. , 2013, , 3-40.		23
3	Application of the differential evolution for simulation of the linear optical response of photosynthetic pigments. <i>Journal of Computational Physics</i> , 2018, 372, 603-615.	3.8	19
4	Structural peculiarities of keto-carotenoids in water-soluble proteins revealed by simulation of linear absorption. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25707-25719.	2.8	18
5	The Effect of Plant Growth Compensation by Adding Silicon-Containing Fertilizer under Light Stress Conditions. <i>Plants</i> , 2021, 10, 1287.	3.5	18
6	Geomagnetic storm under laboratory conditions: randomized experiment. <i>International Journal of Biometeorology</i> , 2018, 62, 501-512.	3.0	17
7	Cardiovascular response as a marker of environmental stress caused by variations in geomagnetic field and local weather. <i>Biomedical Signal Processing and Control</i> , 2019, 51, 401-410.	5.7	16
8	A Novel Biodegradable Composite Polymer Material Based on PLGA and Silver Oxide Nanoparticles with Unique Physicochemical Properties and Biocompatibility with Mammalian Cells. <i>Materials</i> , 2021, 14, 6915.	2.9	13
9	Spectral differences between monomers and trimers of photosystem I depend on the interaction between peripheral chlorophylls of neighboring monomers in trimer. <i>Physics of Wave Phenomena</i> , 2017, 25, 185-195.	1.1	10
10	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
11	A Theoretical Analysis of Relations between Pressure Changes along Xylem Vessels and Propagation of Variation Potential in Higher Plants. <i>Plants</i> , 2021, 10, 372.	3.5	8
12	Single Molecule Fluorescence Spectroscopy of PSI Trimers from <i>Arthrospira platensis</i> : A Computational Approach. <i>Molecules</i> , 2019, 24, 822.	3.8	7
13	Spectroscopic evidence for the effect of the ortho H ₂ O spin on the electron transfer in photosynthesis. <i>Physics of Wave Phenomena</i> , 2012, 20, 35-44.	1.1	6
14	Improvement of Winter Graft Techniques Using Cold Plasma and Plasma-Treated Solution on Cherry Cultures. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4953.	2.5	6
15	H ₂ O and D ₂ O 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
16	Quantum differences of ortho/para H ₂ O 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 104Tf 50 137		
17	The role of vibronic modes in formation of red antenna states of cyanobacterial PSI. <i>Photosynthesis Research</i> , 2020, 146, 75-86.	2.9	4
18	Orange Carotenoid Protein Absorption Spectra Simulation Using the Differential Evolution Algorithm. <i>Communications in Computer and Information Science</i> , 2019, , 302-312.	0.5	3

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19	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
20	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
21	Relaxation dynamics of the LH2 complex from a photosynthetic purple bacterium <i>Thiorhodospira sibirica</i> studied by the near-IR femtosecond pump-probe method. Quantum Electronics, 2005, 35, 107-110.	1.0	2
22	Two-photon excitation spectrum of fluorescence of the light-harvesting complex B800-850 from <i>Allochrocatium minutissimum</i> within 1200-1500 (600-750) nm spectral range is not carotenoid mediated. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2009, 3, 116-122.	0.6	2
23	Theoretical Modeling of the Optical Properties and Exciton Dynamics of the PSII Reaction Center. , 2008, , 163-166.		1
24	Evaluation of combined effects of lunar gravity simulation and the altered magnetic field on cardiovascular system of healthy volunteers. Frontiers in Physiology, 0, 9, .	2.8	1
25	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
26	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
27	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