

Vladimir A Vodeneev

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56
papers

1,252
citations

23
h-index

33
g-index

61
ext. papers

1,553
ext. citations

3.9
avg, IF

4.98
L-index

#	Paper	IF	Citations
56	Effect of extremely low-frequency magnetic fields on light-induced electric reactions in wheat.. <i>Plant Signaling and Behavior</i> , 2022 , 2021664	2.5	1
55	Whole-Plant Measure of Temperature-Induced Changes in the Cytosolic pH of Potato Plants Using Genetically Encoded Fluorescent Sensor Pt-GFP. <i>Agriculture (Switzerland)</i> , 2021 , 11, 1131	3	1
54	Electrical Signaling of Plants under Abiotic Stressors: Transmission of Stimulus-Specific Information. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
53	Change in H Transport across Thylakoid Membrane as Potential Mechanism of 14.3 Hz Magnetic Field Impact on Photosynthetic Light Reactions in Seedlings of Wheat (L). <i>Plants</i> , 2021 , 10,	4.5	2
52	Controlled Formation of a Protein Corona Composed of Denatured BSA on Upconversion Nanoparticles Improves Their Colloidal Stability. <i>Materials</i> , 2021 , 14,	3.5	5
51	Mechanisms of specific systemic response in wheat plants under different locally acting heat stimuli. <i>Journal of Plant Physiology</i> , 2021 , 258-259, 153377	3.6	2
50	Influence of Local Burning on Difference Reflectance Indices Based on 400-700 nm Wavelengths in Leaves of Pea Seedlings. <i>Plants</i> , 2021 , 10,	4.5	3
49	Effect of chronic γ radiation on long-distance electrical signals in wheat and their role in adaptation to heat stress. <i>Environmental and Experimental Botany</i> , 2021 , 184, 104378	5.9	6
48	Proximal Imaging of Changes in Photochemical Reflectance Index in Leaves Based on Using Pulses of Green-Yellow Light. <i>Remote Sensing</i> , 2021 , 13, 1762	5	4
47	Participation of calcium ions in induction of respiratory response caused by variation potential in pea seedlings. <i>Plant Signaling and Behavior</i> , 2021 , 16, 1869415	2.5	3
46	A Theoretical Analysis of Relations between Pressure Changes along Xylem Vessels and Propagation of Variation Potential in Higher Plants. <i>Plants</i> , 2021 , 10,	4.5	3
45	Influence of Magnetic Field with Schumann Resonance Frequencies on Photosynthetic Light Reactions in Wheat and Pea. <i>Cells</i> , 2021 , 10,	7.9	6
44	Exogenous Abscisic Acid Can Influence Photosynthetic Processes in Peas through a Decrease in Activity of H-ATP-ase in the Plasma Membrane. <i>Biology</i> , 2020 , 9,	4.9	8
43	Spatial and Temporal Dynamics of Electrical and Photosynthetic Activity and the Content of Phytohormones Induced by Local Stimulation of Pea Plants. <i>Plants</i> , 2020 , 9,	4.5	7
42	Burning-induced electrical signals influence broadband reflectance indices and water index in pea leaves. <i>Plant Signaling and Behavior</i> , 2020 , 15, 1737786	2.5	9
41	Production and Use of Selenium Nanoparticles as Fertilizers. <i>ACS Omega</i> , 2020 , 5, 17767-17774	3.9	45
40	A light-induced decrease in the photochemical reflectance index (PRI) can be used to estimate the energy-dependent component of non-photochemical quenching under heat stress and soil drought in pea, wheat, and pumpkin. <i>Photosynthesis Research</i> , 2020 , 146, 175-187	3.7	18

39	Automatic Determination of the Parameters of Electrical Signals and Functional Responses of Plants Using the Wavelet Transformation Method. <i>Agriculture (Switzerland)</i> , 2020 , 10, 7	3	3
38	Simulation of a nonphotochemical quenching in plant leaf under different light intensities. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020 , 1861, 148138	4.6	12
37	Development and application of photoconversion fluoropolymer films for greenhouses located at high or polar latitudes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 213, 112056	6.7	11
36	Inactivation of H-ATPase Participates in the Influence of Variation Potential on Photosynthesis and Respiration in Peas. <i>Plants</i> , 2020 , 9,	4.5	7
35	Preclinical Study of Biofunctional Polymer-Coated Upconversion Nanoparticles. <i>Toxicological Sciences</i> , 2019 , 170, 123-132	4.4	19
34	Influence of electrical signals on pea leaf reflectance in the 400-800-nm range. <i>Plant Signaling and Behavior</i> , 2019 , 14, 1610301	2.5	11
33	Effect of ionizing radiation on physiological and molecular processes in plants. <i>Journal of Environmental Radioactivity</i> , 2019 , 202, 8-24	2.4	53
32	Resolution and contrast enhancement of laser-scanning multiphoton microscopy using thulium-doped upconversion nanoparticles. <i>Nano Research</i> , 2019 , 12, 2933-2940	10	7
31	3D in vitro models of tumors expressing EGFR family receptors: a potent tool for studying receptor biology and targeted drug development. <i>Drug Discovery Today</i> , 2019 , 24, 99-111	8.8	8
30	The electrical signal-induced systemic photosynthetic response is accompanied by changes in the photochemical reflectance index in pea. <i>Functional Plant Biology</i> , 2019 , 46, 328-338	2.7	19
29	Long-distance electrical signals as a link between the local action of stressors and the systemic physiological responses in higher plants. <i>Progress in Biophysics and Molecular Biology</i> , 2019 , 146, 63-84	4.7	50
28	Liposomal Form of Tetra(Aryl)Tetracyanoporphyrazine: Physical Properties and Photodynamic Activity In Vitro. <i>Journal of Fluorescence</i> , 2018 , 28, 513-522	2.4	7
27	Parameters of electrical signals and photosynthetic responses induced by them in pea seedlings depend on the nature of stimulus. <i>Functional Plant Biology</i> , 2018 , 45, 160-170	2.7	27
26	Influence of the variation potential on photosynthetic flows of light energy and electrons in pea. <i>Photosynthesis Research</i> , 2018 , 136, 215-228	3.7	36
25	Radioactive (Y) upconversion nanoparticles conjugated with recombinant targeted toxin for synergistic nanotheranostics of cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9690-9695	11.5	46
24	Effective delivery of porphyrazine photosensitizers to cancer cells by polymer brush nanocontainers. <i>Journal of Biophotonics</i> , 2017 , 10, 1189-1197	3.1	15
23	HER2-specific recombinant immunotoxin 4D5scFv-PE40 passes through retrograde trafficking route and forces cells to enter apoptosis. <i>Oncotarget</i> , 2017 , 8, 22048-22058	3.3	20
22	High-Temperature Tolerance of Photosynthesis Can Be Linked to Local Electrical Responses in Leaves of Pea. <i>Frontiers in Physiology</i> , 2017 , 8, 763	4.6	33

21	Variation potential propagation decreases heat-related damage of pea photosystem I by 2 different pathways. <i>Plant Signaling and Behavior</i> , 2016 , 11, e1145334	2.5	28
20	Changes in H(+)-ATP Synthase Activity, Proton Electrochemical Gradient, and pH in Pea Chloroplast Can Be Connected with Variation Potential. <i>Frontiers in Plant Science</i> , 2016 , 7, 1092	6.2	34
19	Age-dependent changes of photosynthetic responses induced by electrical signals in wheat seedlings. <i>Russian Journal of Plant Physiology</i> , 2016 , 63, 861-868	1.6	7
18	Electrical signals in higher plants: Mechanisms of generation and propagation. <i>Biophysics (Russian Federation)</i> , 2016 , 61, 505-512	0.7	20
17	Variation potential-induced photosynthetic and respiratory changes increase ATP content in pea leaves. <i>Journal of Plant Physiology</i> , 2016 , 202, 57-64	3.6	38
16	Evaluation of the open time of calcium channels at variation potential generation in wheat leaf cells. <i>Plant Signaling and Behavior</i> , 2015 , 10, e993231	2.5	9
15	Variation potential induces decreased PSI damage and increased PSII damage under high external temperatures in pea. <i>Functional Plant Biology</i> , 2015 , 42, 727-736	2.7	41
14	Variation potential in higher plants: Mechanisms of generation and propagation. <i>Plant Signaling and Behavior</i> , 2015 , 10, e1057365	2.5	63
13	Targeted Radionuclide Therapy of Human Tumors. <i>International Journal of Molecular Sciences</i> , 2015 , 17,	6.3	82
12	Variation potential influence on photosynthetic cyclic electron flow in pea. <i>Frontiers in Plant Science</i> , 2014 , 5, 766	6.2	39
11	Influence of variation potential on resistance of the photosynthetic machinery to heating in pea. <i>Physiologia Plantarum</i> , 2014 , 152, 773-83	4.6	40
10	Ionic nature of burn-induced variation potential in wheat leaves. <i>Plant and Cell Physiology</i> , 2014 , 55, 1511-9	4.9	35
9	Proton cellular influx as a probable mechanism of variation potential influence on photosynthesis in pea. <i>Plant, Cell and Environment</i> , 2014 , 37, 2532-41	8.4	50
8	Simulation of variation potential in higher plant cells. <i>Journal of Membrane Biology</i> , 2013 , 246, 287-96	2.3	38
7	The mechanism of propagation of variation potentials in wheat leaves. <i>Journal of Plant Physiology</i> , 2012 , 169, 949-54	3.6	33
6	Analysis of the photosynthetic response induced by variation potential in geranium. <i>Planta</i> , 2012 , 235, 703-12	4.7	38
5	Simulation of action potential propagation in plants. <i>Journal of Theoretical Biology</i> , 2011 , 291, 47-55	2.3	51
4	The role of Ca ²⁺ , H ⁺ , and Cl ⁻ ions in generation of variation potential in pumpkin plants. <i>Russian Journal of Plant Physiology</i> , 2011 , 58, 974-981	1.6	30

3	Recording changes in extracellular pH via confocal microscopy during generation of excitation potentials in higher plants. <i>Cell and Tissue Biology</i> , 2010 , 4, 471-475	0.4	1
2	A mathematical model of action potential in cells of vascular plants. <i>Journal of Membrane Biology</i> , 2009 , 232, 59-67	2.3	56
1	Reversible Change of Extracellular pH at the Generation of Mechano-Induced Electrical Reaction in a Stem of Cucurbita pepo. <i>Plant Signaling and Behavior</i> , 2007 , 2, 267-8	2.5	5