Vladimir A Vodeneev

List of Publications by Citations

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	Targeted Radionuclide Therapy of Human Tumors. *International Journal of Molecular Sciences*, **2015**, 17,	6.3	82
55	Variation potential in higher plants: Mechanisms of generation and propagation. *Plant Signaling and Behavior*, **2015**, 10, e1057365	2.5	63
54	A mathematical model of action potential in cells of vascular plants. *Journal of Membrane Biology*, **2009**, 232, 59-67	2.3	56
53	Effect of ionizing radiation on physiological and molecular processes in plants. *Journal of Environmental Radioactivity*, **2019**, 202, 8-24	2.4	53
52	Simulation of action potential propagation in plants. *Journal of Theoretical Biology*, **2011**, 291, 47-55	2.3	51
51	Proton cellular influx as a probable mechanism of variation potential influence on photosynthesis in pea. *Plant, Cell and Environment*, **2014**, 37, 2532-41	8.4	50
50	Long-distance electrical signals as a link between the local action of stressors and the systemic physiological responses in higher plants. *Progress in Biophysics and Molecular Biology*, **2019**, 146, 63-84	4.7	50
49	Radioactive (Y) upconversion nanoparticles conjugated with recombinant targeted toxin for synergistic nanotheranostics of cancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9690-9695	11.5	46
48	Production and Use of Selenium Nanoparticles as Fertilizers. *ACS Omega*, **2020**, 5, 17767-17774	3.9	45
47	Variation potential induces decreased PSI damage and increased PSII damage under high external temperatures in pea. *Functional Plant Biology*, **2015**, 42, 727-736	2.7	41
46	Influence of variation potential on resistance of the photosynthetic machinery to heating in pea. *Physiologia Plantarum*, **2014**, 152, 773-83	4.6	40
45	Variation potential influence on photosynthetic cyclic electron flow in pea. *Frontiers in Plant Science* , **2014**, 5, 766	6.2	39
44	Simulation of variation potential in higher plant cells. *Journal of Membrane Biology*, **2013**, 246, 287-96	2.3	38
43	Analysis of the photosynthetic response induced by variation potential in geranium. *Planta*, **2012**, 235, 703-12	4.7	38
42	Variation potential-induced photosynthetic and respiratory changes increase ATP content in pea leaves. *Journal of Plant Physiology*, **2016**, 202, 57-64	3.6	38
41	Influence of the variation potential on photosynthetic flows of light energy and electrons in pea. *Photosynthesis Research*, **2018**, 136, 215-228	3.7	36
40	Ionic nature of burn-induced variation potential in wheat leaves. *Plant and Cell Physiology*, **2014**, 55, 1511-9	4.9	35

39	Changes in H(+)-ATP Synthase Activity, Proton Electrochemical Gradient, and pH in Pea Chloroplast Can Be Connected with Variation Potential. *Frontiers in Plant Science*, **2016**, 7, 1092	6.2	34
38	High-Temperature Tolerance of Photosynthesis Can Be Linked to Local Electrical Responses in Leaves of Pea. *Frontiers in Physiology*, **2017**, 8, 763	4.6	33
37	The mechanism of propagation of variation potentials in wheat leaves. *Journal of Plant Physiology*, **2012**, 169, 949-54	3.6	33
36	The role of Ca2+, H+, and Cl□ons in generation of variation potential in pumpkin plants. *Russian Journal of Plant Physiology*, **2011**, 58, 974-981	1.6	30
35	Variation potential propagation decreases heat-related damage of pea photosystem I by 2 different pathways. *Plant Signaling and Behavior*, **2016**, 11, e1145334	2.5	28
34	Parameters of electrical signals and photosynthetic responses induced by them in pea seedlings depend on the nature of stimulus. *Functional Plant Biology*, **2018**, 45, 160-170	2.7	27
33	HER2-specific recombinant immunotoxin 4D5scFv-PE40 passes through retrograde trafficking route and forces cells to enter apoptosis. *Oncotarget*, **2017**, 8, 22048-22058	3.3	20
32	Electrical signals in higher plants: Mechanisms of generation and propagation. *Biophysics (Russian Federation)*, **2016**, 61, 505-512	0.7	20
31	Preclinical Study of Biofunctional Polymer-Coated Upconversion Nanoparticles. *Toxicological Sciences*, **2019**, 170, 123-132	4.4	19
30	The electrical signal-induced systemic photosynthetic response is accompanied by changes in the photochemical reflectance index in pea. *Functional Plant Biology*, **2019**, 46, 328-338	2.7	19
29	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. *Photosynthesis Research*, **2020**, 146, 175-187	3.7	18
28	Effective delivery of porphyrazine photosensitizers to cancer cells by polymer brush nanocontainers. *Journal of Biophotonics*, **2017**, 10, 1189-1197	3.1	15
27	Simulation of a nonphotochemical quenching in plant leaf under different light intensities. *Biochimica Et Biophysica Acta - Bioenergetics*, **2020**, 1861, 148138	4.6	12
26	Influence of electrical signals on pea leaf reflectance in the 400-800-nm range. *Plant Signaling and Behavior*, **2019**, 14, 1610301	2.5	11
25	Development and application of photoconversion fluoropolymer films for greenhouses located at high or polar latitudes. *Journal of Photochemistry and Photobiology B: Biology*, **2020**, 213, 112056	6.7	11
24	Evaluation of the open time of calcium channels at variation potential generation in wheat leaf cells. *Plant Signaling and Behavior*, **2015**, 10, e993231	2.5	9
23	Burning-induced electrical signals influence broadband reflectance indices and water index in pea leaves. *Plant Signaling and Behavior*, **2020**, 15, 1737786	2.5	9
22	Exogenous Abscisic Acid Can Influence Photosynthetic Processes in Peas through a Decrease in Activity of H-ATP-ase in the Plasma Membrane. *Biology*, **2020**, 9,	4.9	8

21	3D in vitro models of tumors expressing EGFR family receptors: a potent tool for studying receptor biology and targeted drug development. *Drug Discovery Today*, **2019**, 24, 99-111	8.8	8
20	Spatial and Temporal Dynamics of Electrical and Photosynthetic Activity and the Content of Phytohormones Induced by Local Stimulation of Pea Plants. *Plants*, **2020**, 9,	4.5	7
19	Liposomal Form of Tetra(Aryl)Tetracyanoporphyrazine: Physical Properties and Photodynamic Activity In Vitro. *Journal of Fluorescence*, **2018**, 28, 513-522	2.4	7
18	Resolution and contrast enhancement of laser-scanning multiphoton microscopy using thulium-doped upconversion nanoparticles. *Nano Research*, **2019**, 12, 2933-2940	10	7
17	Inactivation of H-ATPase Participates in the Influence of Variation Potential on Photosynthesis and Respiration in Peas. *Plants*, **2020**, 9,	4.5	7
16	Age-dependent changes of photosynthetic responses induced by electrical signals in wheat seedlings. *Russian Journal of Plant Physiology*, **2016**, 63, 861-868	1.6	7
15	Effect of chronic Ɛradiation on long-distance electrical signals in wheat and their role in adaptation to heat stress. *Environmental and Experimental Botany*, **2021**, 184, 104378	5.9	6
14	Influence of Magnetic Field with Schumann Resonance Frequencies on Photosynthetic Light Reactions in Wheat and Pea. *Cells*, **2021**, 10,	7.9	6
13	Reversible Change of Extracellular pH at the Generation of Mechano-Induced Electrical Reaction in a Stem of Cucurbita pepo. *Plant Signaling and Behavior*, **2007**, 2, 267-8	2.5	5
12	Controlled Formation of a Protein Corona Composed of Denatured BSA on Upconversion Nanoparticles Improves Their Colloidal Stability. *Materials*, **2021**, 14,	3.5	5
11	Electrical Signaling of Plants under Abiotic Stressors: Transmission of Stimulus-Specific Information. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
10	Proximal Imaging of Changes in Photochemical Reflectance Index in Leaves Based on Using Pulses of Green-Yellow Light. *Remote Sensing*, **2021**, 13, 1762	5	4
9	Automatic Determination of the Parameters of Electrical Signals and Functional Responses of Plants Using the Wavelet Transformation Method. *Agriculture (Switzerland)*, **2020**, 10, 7	3	3
8	Influence of Local Burning on Difference Reflectance Indices Based on 400-700 nm Wavelengths in Leaves of Pea Seedlings. *Plants*, **2021**, 10,	4.5	3
7	Participation of calcium ions in induction of respiratory response caused by variation potential in pea seedlings. *Plant Signaling and Behavior*, **2021**, 16, 1869415	2.5	3
6	A Theoretical Analysis of Relations between Pressure Changes along Xylem Vessels and Propagation of Variation Potential in Higher Plants. *Plants*, **2021**, 10,	4.5	3
5	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.). *Plants*, **2021**, 10,	4.5	2
4	Mechanisms of specific systemic response in wheat plants under different locally acting heat stimuli. *Journal of Plant Physiology*, **2021**, 258-259, 153377	3.6	2

3	Recording changes in extracellular pH via confocal microscopy during generation of excitation potentials in higher plants. *Cell and Tissue Biology*, **2010**, 4, 471-475	0.4	1
2	Effect of extremely low-frequency magnetic fields on light-induced electric reactions in wheat.. *Plant Signaling and Behavior*, **2022**, 2021664	2.5	1
1	Whole-Plant Measure of Temperature-Induced Changes in the Cytosolic pH of Potato Plants Using Genetically Encoded Fluorescent Sensor Pt-GFP. *Agriculture (Switzerland)*, **2021**, 11, 1131	3	1