Vadim S Volkov

List of Publications by Year
in descending order

23	1,227	759233 12	752698 20
papers	citations	h-index	g-index

26	26	26	1585
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular Cloning and Characterization of SaCLCd, SaCLCf, and SaCLCg, Novel Proteins of the Chloride Channel Family (CLC) from the Halophyte Suaeda altissima (L.) Pall. Plants, 2022, 11, 409.	3.5	8
2	System analysis of the fast global coronavirus disease 2019 (COVID-19) spread. Can we avoid future pandemics under global climate change?. Communicative and Integrative Biology, 2022, 15, 150-157.	1.4	2
3	Root Growth and Structure of Growth Zone in Halophytes and Glycophytes Under Salinity. , 2021, , 1351-1393.		2
4	A Quest for Mechanisms of Plant Root Exudation Brings New Results and Models, 300 Years after Hales. Plants, 2021, 10, 38.	3.5	6
5	Cloning and Characterization of Two Putative P-Type ATPases from the Marine Microalga Dunaliella maritima Similar to Plant H+-ATPases and Their Gene Expression Analysis under Conditions of Hyperosmotic Salt Shock. Plants, 2021, 10, 2667.	3.5	4
6	Root Growth and Structure of Growth Zone in Halophytes and Glycophytes Under Salinity. , 2020, , 1-44.		0
7	Mechanisms of Ion Transport in Halophytes: From Roots to Leaves. Tasks for Vegetation Science, 2019, , 125-150.	0.6	5
8	The Role of Photon Statistics in Visual Perception. Springer Series in Optical Sciences, 2019, , 207-237.	0.7	0
9	Could vesicular transport of Na+ and Clâ€“ be a feature of salt tolerance in halophytes?. Annals of Botany, 2019, 123, 1-18.	2.9	53
10	Editorial: Salinity Tolerance in Plants: Mechanisms and Regulation of Ion Transport. Frontiers in Plant Science, 2017, 8, 1795.	3.6	40
11	Quantitative description of ion transport via plasma membrane of yeast and small cells. Frontiers in Plant Science, 2015, 6, 425.	3.6	38
12	Salinity tolerance in plants. Quantitative approach to ion transport starting from halophytes and stepping to genetic and protein engineering for manipulating ion fluxes. Frontiers in Plant Science, 2015, 6, 873.	3.6	119
13	How to integrate biological research into society and exclude errors in biomedical publications? Progress in theoretical and systems biology releases pressure on experimental research. Communicative and Integrative Biology, 2014, 7, e27966.	1.4	1
14	Discovering electrophysiology in photobiology. Communicative and Integrative Biology, 2014, 7, e28423.	1.4	2
15	Potassium channels in barley: cloning, functional characterization and expression analyses in relation to leaf growth and development. Plant, Cell and Environment, 2009, 32, 1761-1777.	5.7	70
16	Electrophysiological characterization of pathways for K⁺ uptake into growing and nonâ€growing leaf cells of barley. Plant, Cell and Environment, 2009, 32, 1778-1790.	5.7	14
17	The short-term growth response to salt of the developing barley leaf. Journal of Experimental Botany, 2006, 57, 1079-1095.	4.8	150
18	Low unidirectional sodium influx into root cells restricts net sodium accumulation in Thellungiella halophila, a salt-tolerant relative of Arabidopsis thaliana. Journal of Experimental Botany, 2006, 57, 1161-1170.	4.8	110

#	ARTICLE	IF	CITATIONS
19	Thellungiella halophila, a salt-tolerant relative ofArabidopsis thaliana, has specific root ion-channel features supporting K+/Na+homeostasis under salinity stress. Plant Journal, 2006, 48, 342-353.	5.7	164
20	Water permeability differs between growing and non-growing barley leaf tissues. Journal of Experimental Botany, 2006, 58, 377-390.	4.8	68
21	Thellungiella halophila, a salt-tolerant relative of Arabidopsis thaliana, possesses effective mechanisms to discriminate between potassium and sodium. Plant, Cell and Environment, 2004, 27, 1-14.	5.7	172
22	Logistics of water and salt transport through the plant: structure and functioning of the xylem. Plant, Cell and Environment, 2003, 26, 87-101.	5.7	189
23	Distribution of xylem hydraulic resistance in fruiting truss of tomato influenced by water stress. Journal of Experimental Botany, 2003, 54, 317-324.	4.8	6