Vadim S Volkov

List of Publications by Year
in descending order

22	1,227	758635 12	794141 19
papers	citations	h-index	g-index

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

#	Article	IF	Citations
1	Logistics of water and salt transport through the plant: structure and functioning of the xylem. Plant, Cell and Environment, 2003, 26, 87-101.	2.8	189
2	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.	2.8	172
3	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.	2.8	164
4	The short-term growth response to salt of the developing barley leaf. Journal of Experimental Botany, 2006, 57, 1079-1095.	2.4	150
5	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.	1.7	119
6	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.	2.4	110
7	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.	2.8	70
8	Water permeability differs between growing and non-growing barley leaf tissues. Journal of Experimental Botany, 2006, 58, 377-390.	2.4	68
9	Could vesicular transport of Na+ and Clâ€“ be a feature of salt tolerance in halophytes?. Annals of Botany, 2019, 123, 1-18.	1.4	53
10	Editorial: Salinity Tolerance in Plants: Mechanisms and Regulation of Ion Transport. Frontiers in Plant Science, 2017, 8, 1795.	1.7	40
11	Quantitative description of ion transport via plasma membrane of yeast and small cells. Frontiers in Plant Science, 2015, 6, 425.	1.7	38
12	Electrophysiological characterization of pathways for K‹sup›+‹/sup› uptake into growing and nonâ€growing leaf cells of barley. Plant, Cell and Environment, 2009, 32, 1778-1790.	2.8	14
13	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.	1.6	8
14	A Quest for Mechanisms of Plant Root Exudation Brings New Results and Models, 300 Years after Hales. Plants, 2021, 10, 38.	1.6	6
15	Mechanisms of Ion Transport in Halophytes: From Roots to Leaves. Tasks for Vegetation Science, 2019, , 125-150.	0.6	5
16	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.	1.6	4
17	Discovering electrophysiology in photobiology. Communicative and Integrative Biology, 2014, 7, e28423.	0.6	2
18	Root Growth and Structure of Growth Zone in Halophytes and Glycophytes Under Salinity. , 2021, , 1351-1393.		2

#	Article	IF	Citations
19	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.	0.6	2
20	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.	0.6	1
21	The Role of Photon Statistics in Visual Perception. Springer Series in Optical Sciences, 2019, , 207-237.	0.5	0
22	Root Growth and Structure of Growth Zone in Halophytes and Glycophytes Under Salinity. , 2020, , 1-44.		0