Maria Shumskaya

List of Publications by Year
in descending order

28 papers	1,137 citations	567281 15 h-index	610901 24 g-index
29 all docs	29 docs citations	29 times ranked	1486 citing authors

#	Article	IF	Citations
1	Alcohol stress on cyanobacterial membranes: New insights revealed by transcriptomics. Gene, 2021, 764, 145055.	2.2	4
2	Early Requirement for Bioinformatics in Undergraduate Biology Curricula. Frontiers in Bioinformatics, 2021, 1, .	2.1	2
3	Exploring DNA in biochemistry lab courses: DNA barcoding and phylogenetic analysis. Biochemistry and Molecular Biology Education, 2021, 49, 789-799.	1.2	0
4	Construction of prokaryotic strand-specific primary-transcripts saturated RNASeq library by controlled heat magnesium-dependent mRNA degradation. Biochimie, 2020, 177, 63-67.	2.6	1
5	Online laboratory exercise on computational biology: Phylogenetic analyses and protein modeling based on SARSâ€CoV â€2 data during COVID â€19 remote instruction. Biochemistry and Molecular Biology Education, 2020, 48, 526-527.	1.2	9
6	Very-long-chain fatty acids (VLCFAs) in plant response to stress. Functional Plant Biology, 2020, 47, 695.	2.1	26
7	Elucidating Carotenoid Biosynthetic Enzyme Localization and Interactions Using Fluorescent Microscopy. Methods in Molecular Biology, 2020, 2083, 223-234.	0.9	4
8	Online Low-Stakes Assignments To Support Scientific Lab Report Writing in Introductory Science Courses. Journal of Microbiology and Biology Education, 2020, 21, 20.	1.0	1
9	Universal Molecular Triggers of Stress Responses in Cyanobacterium Synechocystis. Life, 2019, 9, 67.	2.4	26
10	Draft Genome Sequences of a Putative Prokaryotic Consortium (IPPAS B-1204) Consisting of a Cyanobacterium (Leptolyngbya sp.) and an Alphaproteobacterium (Porphyrobacter sp.). Microbiology Resource Announcements, 2019, 8, .	0.6	4
11	Hydrogen Peroxide Participates in Perception and Transduction of Cold Stress Signal in Synechocystis. Plant and Cell Physiology, 2018, 59, 1255-1264.	3.1	25
12	Membrane physical state and stress regulation in Synechocystis: fluidizing alcohols repress fatty acid desaturation. Plant Journal, 2018, 96, 1007-1017.	5.7	9
13	Polyphasic characterization of the thermotolerant cyanobacterium Desertifilum sp. strain IPPAS B-1220. FEMS Microbiology Letters, 2017, 364, fnx027.	1.8	40
14	Control of carotenoid biosynthesis through a heme-based cis-trans isomerase. Nature Chemical Biology, 2015, 11, 598-605.	8.0	72
15	The Phytoene synthase gene family of apple (Malus x domestica) and its role in controlling fruit carotenoid content. BMC Plant Biology, 2015, 15, 185.	3.6	65
16	Sigma 1 Receptor plays a prominent role in IL-24-induced cancer-specific apoptosis. Biochemical and Biophysical Research Communications, 2013, 439, 215-220.	2.1	29
17	The carotenoid biosynthetic pathway: Thinking in all dimensions. Plant Science, 2013, 208, 58-63.	3.6	147
18	Lycopene cyclase paralog CruP protects against reactive oxygen species in oxygenic photosynthetic organisms. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1888-97.	7.1	26

#	Article	IF	Citations
19	Identical Hik-Rre systems are involved in perception and transduction of salt signals and hyperosmotic signals but regulate the expression of individual genes to different extents in Synechocystis.. Journal of Biological Chemistry, 2012, 287, 2269.	3.4	0
20	Synergistic Interactions between Carotene Ring Hydroxylases Drive Lutein Formation in Plant Carotenoid Biosynthesis Â Â. Plant Physiology, 2012, 160, 204-214.	4.8	84
21	Five histidine kinases perceive osmotic stress and regulate distinct sets of genes in Synechocystis.. Journal of Biological Chemistry, 2012, 287, 2269.	3.4	0
22	Plastid Localization of the Key Carotenoid Enzyme Phytoene Synthase Is Altered by Isozyme, Allelic Variation, and Activity. Plant Cell, 2012, 24, 3725-3741.	6.6	136
23	Histidine kinases play important roles in the perception and signal transduction of hydrogen peroxide in the cyanobacterium, Synechocystis sp. PCC 6803. Plant Journal, 2007, 49, 313-324.	5.7	89
24	Proteomics of Synechocystis sp. PCCâ€ƒ6803. FEBS Journal, 2007, 274, 791-804.	4.7	59
25	Identical Hik-Rre Systems Are Involved in Perception and Transduction of Salt Signals and Hyperosmotic Signals but Regulate the Expression of Individual Genes to Different Extents in Synechocystis. Journal of Biological Chemistry, 2005, 280, 21531-21538.	3.4	144
26	Five Histidine Kinases Perceive Osmotic Stress and Regulate Distinct Sets of Genes in Synechocystis. Journal of Biological Chemistry, 2004, 279, 53078-53086.	3.4	120
27	Localizing and Quantifying Carotenoids in Intact Cells and Tissues. , 0, , .		3
28	Dead wood fungi in North America: an insight into research and conservation potential. Nature Conservation, 0, 32, 1-17.	0.0	11