

Maria Shumskaya

List of Publications by Year in descending order

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Version: 2024-02-01

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	The carotenoid biosynthetic pathway: Thinking in all dimensions. <i>Plant Science</i> , 2013, 208, 58-63.	3.6	147
2	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 <i>Synechocystis</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 21531-21538.	3.4	144
3	Plastid Localization of the Key Carotenoid Enzyme Phytoene Synthase Is Altered by Isozyme, Allelic Variation, and Activity. <i>Plant Cell</i> , 2012, 24, 3725-3741.	6.6	136
4	Five Histidine Kinases Perceive Osmotic Stress and Regulate Distinct Sets of Genes in <i>Synechocystis</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 53078-53086.	3.4	120
5	Histidine kinases play important roles in the perception and signal transduction of hydrogen peroxide in the cyanobacterium, <i>Synechocystis</i> sp. PCC 6803. <i>Plant Journal</i> , 2007, 49, 313-324.	5.7	89
6	Synergistic Interactions between Carotene Ring Hydroxylases Drive Lutein Formation in Plant Carotenoid Biosynthesis. <i>Plant Physiology</i> , 2012, 160, 204-214.	4.8	84
7	Control of carotenoid biosynthesis through a heme-based cis-trans isomerase. <i>Nature Chemical Biology</i> , 2015, 11, 598-605.	8.0	72
8	The Phytoene synthase gene family of apple (<i>Malus x domestica</i>) and its role in controlling fruit carotenoid content. <i>BMC Plant Biology</i> , 2015, 15, 185.	3.6	65
9	Proteomics of <i>Synechocystis</i> sp. PCC 6803. <i>FEBS Journal</i> , 2007, 274, 791-804.	4.7	59
10	Polyphasic characterization of the thermotolerant cyanobacterium <i>Desertifilum</i> sp. strain IPPAS B-1220. <i>FEMS Microbiology Letters</i> , 2017, 364, fnx027.	1.8	40
11	Sigma 1 Receptor plays a prominent role in IL-24-induced cancer-specific apoptosis. <i>Biochemical and Biophysical Research Communications</i> , 2013, 439, 215-220.	2.1	29
12	Lycopene cyclase paralog CruP protects against reactive oxygen species in oxygenic photosynthetic organisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1888-97.	7.1	26
13	Universal Molecular Triggers of Stress Responses in Cyanobacterium <i>Synechocystis</i> . <i>Life</i> , 2019, 9, 67.	2.4	26
14	Very-long-chain fatty acids (VLCFAs) in plant response to stress. <i>Functional Plant Biology</i> , 2020, 47, 695.	2.1	26
15	Hydrogen Peroxide Participates in Perception and Transduction of Cold Stress Signal in <i>Synechocystis</i> . <i>Plant and Cell Physiology</i> , 2018, 59, 1255-1264.	3.1	25
16	Dead wood fungi in North America: an insight into research and conservation potential. <i>Nature Conservation</i> , 0, 32, 1-17.	0.0	11
17	Membrane physical state and stress regulation in <i>Synechocystis</i> : fluidizing alcohols repress fatty acid desaturation. <i>Plant Journal</i> , 2018, 96, 1007-1017.	5.7	9
18	Online laboratory exercise on computational biology: Phylogenetic analyses and protein modeling based on SARS-CoV-2 data during COVID-19 remote instruction. <i>Biochemistry and Molecular Biology Education</i> , 2020, 48, 526-527.	1.2	9

#	ARTICLE	IF	CITATIONS
19	Draft Genome Sequences of a Putative Prokaryotic Consortium (IPPAS B-1204) Consisting of a Cyanobacterium (<i>Leptolyngbya</i> sp.) and an Alphaproteobacterium (<i>Porphyrobacter</i> sp.). Microbiology Resource Announcements, 2019, 8, .	0.6	4
20	Alcohol stress on cyanobacterial membranes: New insights revealed by transcriptomics. Gene, 2021, 764, 145055.	2.2	4
21	Elucidating Carotenoid Biosynthetic Enzyme Localization and Interactions Using Fluorescent Microscopy. Methods in Molecular Biology, 2020, 2083, 223-234.	0.9	4
22	Localizing and Quantifying Carotenoids in Intact Cells and Tissues. , 0, , .		3
23	Early Requirement for Bioinformatics in Undergraduate Biology Curricula. Frontiers in Bioinformatics, 2021, 1, .	2.1	2
24	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
25	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
26	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
27	Five histidine kinases perceive osmotic stress and regulate distinct sets of genes in Synechocystis.. Journal of Biological Chemistry, 2012, 287, 2269.	3.4	0
28	Exploring DNA in biochemistry lab courses: DNA barcoding and phylogenetic analysis. Biochemistry and Molecular Biology Education, 2021, 49, 789-799.	1.2	0