

# Tatyana V Savchenko

## List of Publications by Year in descending order

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29  
papers

1,831  
citations

394286

19  
h-index

526166

27  
g-index

29  
all docs

29  
docs citations

29  
times ranked

2882  
citing authors

#	ARTICLE	IF	CITATIONS
1	Retrograde Signaling by the Plastidial Metabolite MEcPP Regulates Expression of Nuclear Stress-Response Genes. <i>Cell</i> , 2012, 149, 1525-1535.	13.5	368
2	Functional Convergence of Oxylipin and Abscisic Acid Pathways Controls Stomatal Closure in Response to Drought. <i>Plant Physiology</i> , 2014, 164, 1151-1160.	2.3	241
3	Arachidonic Acid: An Evolutionarily Conserved Signaling Molecule Modulates Plant Stress Signaling Networks. <i>Plant Cell</i> , 2010, 22, 3193-3205.	3.1	152
4	Distinct Roles of Jasmonates and Aldehydes in Plant-Defense Responses. <i>PLoS ONE</i> , 2008, 3, e1904.	1.1	120
5	Genome-wide comparative analysis of the IQD gene families in <i>Arabidopsis thaliana</i> and <i>Oryza sativa</i> . <i>BMC Evolutionary Biology</i> , 2005, 5, 72.	3.2	119
6	<i>Arabidopsis</i> Calmodulin-binding Protein IQ67-Domain 1 Localizes to Microtubules and Interacts with Kinesin Light Chain-related Protein-1. <i>Journal of Biological Chemistry</i> , 2013, 288, 1871-1882.	1.6	116
7	Intronic T-DNA Insertion Renders <i>Arabidopsis</i> <i>opr3</i> a Conditional Jasmonic Acid-Producing Mutant. <i>Plant Physiology</i> , 2011, 156, 770-778.	2.3	93
8	Genome-Wide Expression Profiling <i>Arabidopsis</i> at the Stage of <i>Golovinomyces cichoracearum</i> Haustorium Formation. <i>Plant Physiology</i> , 2008, 146, 1421-1439.	2.3	79
9	Three-dimensional structure of a halotolerant algal carbonic anhydrase predicts halotolerance of a mammalian homolog. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7493-7498.	3.3	71
10	Oxylipins and plant abiotic stress resistance. <i>Biochemistry (Moscow)</i> , 2014, 79, 362-375.	0.7	60
11	The Calmodulin-Binding Transcription Factor SIGNAL RESPONSIVE1 is a Novel Regulator of Glucosinolate Metabolism and Herbivory Tolerance in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2012, 53, 2008-2015.	1.5	58
12	Insect herbivores selectively suppress the HPL branch of the oxylipin pathway in host plants. <i>Plant Journal</i> , 2013, 73, 653-662.	2.8	52
13	Drought stress modulates oxylipin signature by eliciting 12-OPDA as a potent regulator of stomatal aperture. <i>Plant Signaling and Behavior</i> , 2014, 9, e28304.	1.2	31
14	Oxidative Stress-Induced Alteration of Plant Central Metabolism. <i>Life</i> , 2021, 11, 304.	1.1	31
15	Overexpression of <i>Arabidopsis</i> OPR3 in Hexaploid Wheat ( <i>Triticum aestivum</i> L.) Alters Plant Development and Freezing Tolerance. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3989.	1.8	30
16	Jasmonates-Mediated Rewiring of Central Metabolism Regulates Adaptive Responses. <i>Plant and Cell Physiology</i> , 2019, 60, 2613-2620.	1.5	30
17	Natural protein engineering: a uniquely salt-tolerant, but not halophilic, $\alpha$ -type carbonic anhydrase from algae proliferating in low- to hyper-saline environments. <i>Protein Engineering, Design and Selection</i> , 2004, 17, 191-200.	1.0	27
18	Waterlogging tolerance rendered by oxylipin-mediated metabolic reprogramming in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2019, 70, 2919-2932.	2.4	21

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19	Warm temperature triggers JOX and ST2A-mediated jasmonate catabolism to promote plant growth. <i>Nature Communications</i> , 2021, 12, 4804.	5.8	20
20	Isolation and characterization of a xanthophyll-rich fraction from the thylakoid membrane of <i>Dunaliella salina</i> (green algae). <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 1028.	1.6	19
21	Investigating the function of CAF1 deadenylases during plant stress responses. <i>Plant Signaling and Behavior</i> , 2010, 5, 802-805.	1.2	19
22	The hydroperoxide lyase branch of the oxylipin pathway protects against photoinhibition of photosynthesis. <i>Planta</i> , 2017, 245, 1179-1192.	1.6	19
23	Eicosapolyenoic acids. <i>Plant Signaling and Behavior</i> , 2011, 6, 531-533.	1.2	13
24	Insect herbivores selectively mute GLV production in plants. <i>Plant Signaling and Behavior</i> , 2013, 8, e24136.	1.2	12
25	Structural and functional characteristics of photosynthetic apparatus of chlorophyll-containing grape vine tissue. <i>Russian Journal of Plant Physiology</i> , 2017, 64, 73-82.	0.5	12
26	Regulation of Sixth Seminal Root Formation by Jasmonate in <i>Triticum aestivum</i> L.. <i>Plants</i> , 2021, 10, 219.	1.6	10
27	Identification, cDNA cloning, expression, crystallization and preliminary X-ray analysis of an exceptionally halotolerant carbonic anhydrase from <i>Dunaliella salina</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1084-1086.	2.5	8
28	Metabolism of Photosynthetic Organisms. <i>Life</i> , 2021, 11, 946.	1.1	0
29	Cortical photosynthesis as a physiological marker for grape breeding: methods and approaches. <i>BIO Web of Conferences</i> , 2020, 25, 02018.	0.1	0