Xun Sun

List of Publications by Year
in descending order

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27 papers	1,064 citations	516710 16 h-index	526287 27 g-index
27 all docs	27 docs citations	27 times ranked	852 citing authors

#	Article	IF	Citations
1	Improvement of drought tolerance by overexpressing MdATG18a is mediated by modified antioxidant system and activated autophagy in transgenic apple. Plant Biotechnology Journal, 2018, 16, 545-557.	8.3	176
2	Delay in leaf senescence of Malus hupehensis by longâ€term melatonin application is associated with its regulation of metabolic status and protein degradation. Journal of Pineal Research, 2013, 55, 424-434.	7.4	160
3	MdATG18a overexpression improves tolerance to nitrogen deficiency and regulates anthocyanin accumulation through increased autophagy in transgenic apple. Plant, Cell and Environment, 2018, 41, 469-480.	5.7	93
4	MdATG18a overexpression improves basal thermotolerance in transgenic apple by decreasing damage to chloroplasts. Horticulture Research, 2020, 7, 21.	6.3	75
5	Melatonin enhances the occurrence of autophagy induced by oxidative stress in Arabidopsis seedlings. Journal of Pineal Research, 2015, 58, 479-489.	7.4	73
6	Apple autophagy-related protein MdATG3s afford tolerance to multiple abiotic stresses. Plant Science, 2017, 256, 53-64.	3.6	62
7	Overexpression of MpCYS4, A Phytocystatin Gene from Malus prunifolia (Willd.) Borkh., Enhances Stomatal Closure to Confer Drought Tolerance in Transgenic Arabidopsis and Apple. Frontiers in Plant Science, 2017, 8, 33.	3.6	48
8	Overexpression of MdATG18a in apple improves resistance to Diplocarpon mali infection by enhancing antioxidant activity and salicylic acid levels. Horticulture Research, 2018, 5, 57.	6.3	46
9	Characterization of an Autophagy-Related Gene MdATG8i from Apple. Frontiers in Plant Science, 2016, 7, 720.	3.6	38
10	Functions of two Malus hupehensis (Pamp.) Rehd. YTPs (MhYTP1 and MhYTP2) in biotic- and abiotic-stress responses. Plant Science, 2017, 261, 18-27.	3.6	37
11	Increased autophagic activity in roots caused by overexpression of the autophagy-related gene MdATG10 in apple enhances salt tolerance. Plant Science, 2020, 294, 110444.	3.6	32
12	Overexpression of MdATG8i improves water use efficiency in transgenic apple by modulating photosynthesis, osmotic balance, and autophagic activity under moderate water deficit. Horticulture Research, 2021, 8, 81.	6.3	30
13	Overexpression of MdATG18a enhances alkaline tolerance and GABA shunt in apple through increased autophagy under alkaline conditions. Tree Physiology, 2020, 40, 1509-1519.	3.1	21
14	The Apple Autophagy-Related Gene MdATG9 Confers Tolerance to Low Nitrogen in Transgenic Apple Callus. Frontiers in Plant Science, 2020, 11, 423.	3.6	20
15	Exogenous Calcium Improved Resistance to Botryosphaeria dothidea by Increasing Autophagy Activity and Salicylic Acid Level in Pear. Molecular Plant-Microbe Interactions, 2020, 33, 1150-1160.	2.6	20
16	MdATG5a induces drought tolerance by improving the antioxidant defenses and promoting starch degradation in apple. Plant Science, 2021, 312, 111052.	3.6	19
17	MhYTP1 and MhYTP2 from Apple Confer Tolerance to Multiple Abiotic Stresses in Arabidopsis thaliana. Frontiers in Plant Science, 2017, 8, 1367.	3.6	18
18	Ectopic expression of an autophagy-associated MdATG7b gene from apple alters growth and tolerance to nutrient stress in Arabidopsis thaliana. Plant Cell, Tissue and Organ Culture, 2017, 128, 9-23.	2.3	16

#	Article	IF	Citations
19	Overexpression of MdATG8i Enhances Drought Tolerance by Alleviating Oxidative Damage and Promoting Water Uptake in Transgenic Apple. International Journal of Molecular Sciences, 2021, 22, 5517.	4.1	14
20	Genome-wide Identification and Evolution of the PP2C Gene Family in Eight Rosaceae Species and Expression Analysis Under Stress in Pyrus bretschneideri. Frontiers in Genetics, 2021, 12, 770014.	2.3	14
21	Identification and characterization of invertase family genes reveal their roles in vacuolar sucrose metabolism during Pyrus bretschneideri Rehd. fruit development. Genomics, 2021, 113, 1087-1097.	2.9	10
22	Genome-wide identification and expression analysis of the pear autophagy-related gene PbrATG8 and functional verification of PbrATG8c in Pyrus bretschneideri Rehd. Planta, 2021, 253, 32.	3.2	10
23	MdHARBI1, a MdATG8i-interacting protein, plays a positive role in plant thermotolerance. Plant Science, 2021, 306, 110850.	3.6	8
24	Exogenous Melatonin Improves Pear Resistance to Botryosphaeria dothidea by Increasing Autophagic Activity and Sugar/Organic Acid Levels. Phytopathology, 2022, 112, 1335-1344.	2.2	8
25	A Phytocystatin Gene from Malus prunifolia (Willd.) Borkh., MpCYS5, Confers Salt Stress Tolerance and Functions in Endoplasmic Reticulum Stress Response in Arabidopsis. Plant Molecular Biology Reporter, 2016, 34, 62-75.	1.8	7
26	Revealing the early response of pear (Pyrus bretschneideri Rehd) leaves during Botryosphaeria dothideainfection by transcriptome analysis. Plant Science, 2022, 315, 111146.	3.6	5
27	Transcriptome Analysis of Pear Leaves in Response to Calcium Treatment During Botryosphaeria dothidea Infection. Phytopathology, 2021, 111, 1638-1647.	2.2	4