

# Xun Sun

## List of Publications by Year in descending order

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27  
papers

1,064  
citations

516710

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526287

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Exogenous Melatonin Improves Pear Resistance to <i>Botryosphaeria dothidea</i> by Increasing Autophagic Activity and Sugar/Organic Acid Levels. <i>Phytopathology</i> , 2022, 112, 1335-1344.	2.2	8
2	Revealing the early response of pear ( <i>Pyrus bretschneideri</i> Rehd) leaves during <i>Botryosphaeria dothidea</i> infection by transcriptome analysis. <i>Plant Science</i> , 2022, 315, 111146.	3.6	5
3	Transcriptome Analysis of Pear Leaves in Response to Calcium Treatment During <i>Botryosphaeria dothidea</i> Infection. <i>Phytopathology</i> , 2021, 111, 1638-1647.	2.2	4
4	Overexpression of MdATG8i improves water use efficiency in transgenic apple by modulating photosynthesis, osmotic balance, and autophagic activity under moderate water deficit. <i>Horticulture Research</i> , 2021, 8, 81.	6.3	30
5	Identification and characterization of invertase family genes reveal their roles in vacuolar sucrose metabolism during <i>Pyrus bretschneideri</i> Rehd. fruit development. <i>Genomics</i> , 2021, 113, 1087-1097.	2.9	10
6	MdHARB11, a MdATG8i-interacting protein, plays a positive role in plant thermotolerance. <i>Plant Science</i> , 2021, 306, 110850.	3.6	8
7	Overexpression of MdATG8i Enhances Drought Tolerance by Alleviating Oxidative Damage and Promoting Water Uptake in Transgenic Apple. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5517.	4.1	14
8	MdATG5a induces drought tolerance by improving the antioxidant defenses and promoting starch degradation in apple. <i>Plant Science</i> , 2021, 312, 111052.	3.6	19
9	Genome-wide identification and expression analysis of the pear autophagy-related gene PbrATG8 and functional verification of PbrATG8c in <i>Pyrus bretschneideri</i> Rehd. <i>Planta</i> , 2021, 253, 32.	3.2	10
10	Genome-wide Identification and Evolution of the PP2C Gene Family in Eight Rosaceae Species and Expression Analysis Under Stress in <i>Pyrus bretschneideri</i> . <i>Frontiers in Genetics</i> , 2021, 12, 770014.	2.3	14
11	Overexpression of <i>MdATG18a</i> enhances alkaline tolerance and GABA shunt in apple through increased autophagy under alkaline conditions. <i>Tree Physiology</i> , 2020, 40, 1509-1519.	3.1	21
12	MdATG18a overexpression improves basal thermotolerance in transgenic apple by decreasing damage to chloroplasts. <i>Horticulture Research</i> , 2020, 7, 21.	6.3	75
13	Increased autophagic activity in roots caused by overexpression of the autophagy-related gene MdATG10 in apple enhances salt tolerance. <i>Plant Science</i> , 2020, 294, 110444.	3.6	32
14	The Apple Autophagy-Related Gene MdATG9 Confers Tolerance to Low Nitrogen in Transgenic Apple Callus. <i>Frontiers in Plant Science</i> , 2020, 11, 423.	3.6	20
15	Exogenous Calcium Improved Resistance to <i>Botryosphaeria dothidea</i> by Increasing Autophagy Activity and Salicylic Acid Level in Pear. <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 1150-1160.	2.6	20
16	Improvement of drought tolerance by overexpressing <i>MdATG18a</i> is mediated by modified antioxidant system and activated autophagy in transgenic apple. <i>Plant Biotechnology Journal</i> , 2018, 16, 545-557.	8.3	176
17	<i>MdATG18a</i> overexpression improves tolerance to nitrogen deficiency and regulates anthocyanin accumulation through increased autophagy in transgenic apple. <i>Plant, Cell and Environment</i> , 2018, 41, 469-480.	5.7	93
18	Overexpression of MdATG18a in apple improves resistance to <i>Diplocarpon mali</i> infection by enhancing antioxidant activity and salicylic acid levels. <i>Horticulture Research</i> , 2018, 5, 57.	6.3	46

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19	Functions of two <i>Malus hupehensis</i> (Pamp.) Rehd. YTPs (MhYTP1 and MhYTP2) in biotic- and abiotic-stress responses. <i>Plant Science</i> , 2017, 261, 18-27.	3.6	37
20	Apple autophagy-related protein MdATG3s afford tolerance to multiple abiotic stresses. <i>Plant Science</i> , 2017, 256, 53-64.	3.6	62
21	Ectopic expression of an autophagy-associated MdATG7b gene from apple alters growth and tolerance to nutrient stress in <i>Arabidopsis thaliana</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2017, 128, 9-23.	2.3	16
22	Overexpression of MpCYS4, A Phycystatin Gene from <i>Malus prunifolia</i> (Willd.) Borkh., Enhances Stomatal Closure to Confer Drought Tolerance in Transgenic <i>Arabidopsis</i> and Apple. <i>Frontiers in Plant Science</i> , 2017, 8, 33.	3.6	48
23	MhYTP1 and MhYTP2 from Apple Confer Tolerance to Multiple Abiotic Stresses in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 1367.	3.6	18
24	Characterization of an Autophagy-Related Gene MdATG8i from Apple. <i>Frontiers in Plant Science</i> , 2016, 7, 720.	3.6	38
25	A Phycystatin Gene from <i>Malus prunifolia</i> (Willd.) Borkh., MpCYS5, Confers Salt Stress Tolerance and Functions in Endoplasmic Reticulum Stress Response in <i>Arabidopsis</i> . <i>Plant Molecular Biology Reporter</i> , 2016, 34, 62-75.	1.8	7
26	Melatonin enhances the occurrence of autophagy induced by oxidative stress in <i>Arabidopsis</i> seedlings. <i>Journal of Pineal Research</i> , 2015, 58, 479-489.	7.4	73
27	Delay in leaf senescence of <i>Malus hupehensis</i> by long-term melatonin application is associated with its regulation of metabolic status and protein degradation. <i>Journal of Pineal Research</i> , 2013, 55, 424-434.	7.4	160