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88

papers

7,166

citations

45

h-index

84

g-index

99

ext. papers

9,417

ext. citations

6.2

avg, IF

6.1

L-index

#	Paper	IF	Citations
88	Nitrogen uptake, assimilation and remobilization in plants: challenges for sustainable and productive agriculture. <i>Annals of Botany</i> , 2010 , 105, 1141-57	4.1	916
87	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , 2021 , 17, 1-382	10.2	440
86	Characterization of the sink/source transition in tobacco (<i>Nicotiana tabacum</i> L.) shoots in relation to nitrogen management and leaf senescence. <i>Planta</i> , 2000 , 211, 510-8	4.7	353
85	Source and sink mechanisms of nitrogen transport and use. <i>New Phytologist</i> , 2018 , 217, 35-53	9.8	267
84	Glutamine synthetase-glutamate synthase pathway and glutamate dehydrogenase play distinct roles in the sink-source nitrogen cycle in tobacco. <i>Plant Physiology</i> , 2006 , 140, 444-56	6.6	264
83	Autophagy, plant senescence, and nutrient recycling. <i>Journal of Experimental Botany</i> , 2014 , 65, 3799-8117	17	201
82	Nitrogen recycling and remobilization are differentially controlled by leaf senescence and development stage in <i>Arabidopsis</i> under low nitrogen nutrition. <i>Plant Physiology</i> , 2008 , 147, 1437-49	6.6	197
81	Leaf nitrogen remobilisation for plant development and grain filling. <i>Plant Biology</i> , 2008 , 10 Suppl 1, 23-36	3.7	191
80	Cadmium toxicity induced changes in nitrogen management in <i>Lycopersicon esculentum</i> leading to a metabolic safeguard through an amino acid storage strategy. <i>Plant and Cell Physiology</i> , 2004 , 45, 1681-93	4.9	189
79	Autophagy machinery controls nitrogen remobilization at the whole-plant level under both limiting and ample nitrate conditions in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2012 , 194, 732-740	9.8	175
78	Characterization of markers to determine the extent and variability of leaf senescence in <i>Arabidopsis</i> . A metabolic profiling approach. <i>Plant Physiology</i> , 2005 , 138, 898-908	6.6	168
77	Leaf yellowing and anthocyanin accumulation are two genetically independent strategies in response to nitrogen limitation in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2006 , 47, 74-83	4.9	155
76	The challenge of remobilisation in plant nitrogen economy. A survey of physio-agronomic and molecular approaches. <i>Annals of Applied Biology</i> , 2001 , 138, 69-81	2.6	152
75	The two senescence-related markers, GS1 (cytosolic glutamine synthetase) and GDH (glutamate dehydrogenase), involved in nitrogen mobilization, are differentially regulated during pathogen attack and by stress hormones and reactive oxygen species in <i>Nicotiana tabacum</i> L. leaves. <i>Journal of Experimental Botany</i> , 2006 , 57, 547-57	7	141
74	Senescence and death of plant organs: nutrient recycling and developmental regulation. <i>Comptes Rendus - Biologies</i> , 2010 , 333, 382-91	1.4	134
73	Nitrogen metabolism meets phytopathology. <i>Journal of Experimental Botany</i> , 2014 , 65, 5643-56	7	132
72	Nitrogen remobilization during leaf senescence: lessons from <i>Arabidopsis</i> to crops. <i>Journal of Experimental Botany</i> , 2017 , 68, 2513-2529	7	121

71	Enzymatic and metabolic diagnostic of nitrogen deficiency in <i>Arabidopsis thaliana</i> Wassileskija accession. <i>Plant and Cell Physiology</i> , 2008 , 49, 1056-65	4.9	117
70	Natural variation of nitrate uptake and nitrogen use efficiency in <i>Arabidopsis thaliana</i> cultivated with limiting and ample nitrogen supply. <i>Journal of Experimental Botany</i> , 2010 , 61, 2293-302	7	105
69	Exploring nitrogen remobilization for seed filling using natural variation in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2011 , 62, 2131-42	7	101
68	Physiological and metabolic consequences of autophagy deficiency for the management of nitrogen and protein resources in <i>Arabidopsis</i> leaves depending on nitrate availability. <i>New Phytologist</i> , 2013 , 199, 683-94	9.8	99
67	Diurnal changes in the expression of glutamate dehydrogenase and nitrate reductase are involved in the C/N balance of tobacco source leaves. <i>Plant, Cell and Environment</i> , 2002 , 25, 1451-1462	8.4	96
66	Sugars, senescence, and ageing in plants and heterotrophic organisms. <i>Journal of Experimental Botany</i> , 2009 , 60, 1063-6	7	95
65	The cytosolic glutamine synthetase GLN1;2 plays a role in the control of plant growth and ammonium homeostasis in <i>Arabidopsis</i> rosettes when nitrate supply is not limiting. <i>Journal of Experimental Botany</i> , 2011 , 62, 1375-90	7	93
64	Amino acid pattern and glutamate metabolism during dehydration stress in the 'resurrection' plant <i>Sporobolus stapfianus</i> : a comparison between desiccation-sensitive and desiccation-tolerant leaves. <i>Journal of Experimental Botany</i> , 2007 , 58, 3037-46	7	90
63	Stitching together the Multiple Dimensions of Autophagy Using Metabolomics and Transcriptomics Reveals Impacts on Metabolism, Development, and Plant Responses to the Environment in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014 , 26, 1857-1877	11.6	89
62	Regulation of nutrient recycling via autophagy. <i>Current Opinion in Plant Biology</i> , 2017 , 39, 8-17	9.9	88
61	Characterization of the <i>pelL</i> gene encoding a novel pectate lyase of <i>Erwinia chrysanthemi</i> 3937. <i>Molecular Microbiology</i> , 1995 , 16, 1183-95	4.1	88
60	Immunolocalization of glutamine synthetase in senescing tobacco (<i>Nicotiana tabacum</i> L.) leaves suggests that ammonia assimilation is progressively shifted to the mesophyll cytosol. <i>Planta</i> , 2000 , 211, 519-27	4.7	82
59	Exploring NUE in crops and in <i>Arabidopsis</i> ideotypes to improve yield and seed quality. <i>Journal of Experimental Botany</i> , 2012 , 63, 3401-12	7	77
58	Simultaneous expression of NAD-dependent isocitrate dehydrogenase and other krebs cycle genes after nitrate resupply to short-term nitrogen-starved tobacco. <i>Plant Physiology</i> , 1999 , 120, 717-26	6.6	75
57	The plant nitrogen mobilization promoted by <i>Colletotrichum lindemuthianum</i> in <i>Phaseolus</i> leaves depends on fungus pathogenicity. <i>Journal of Experimental Botany</i> , 2007 , 58, 3351-60	7	74
56	The two nitrogen mobilisation- and senescence-associated GS1 and GDH genes are controlled by C and N metabolites. <i>Planta</i> , 2005 , 221, 580-8	4.7	68
55	The role of iron in plant host-pathogen interactions. <i>Trends in Microbiology</i> , 1996 , 4, 232-7	12.4	66
54	The identification of new cytosolic glutamine synthetase and asparagine synthetase genes in barley (<i>Hordeum vulgare</i> L.), and their expression during leaf senescence. <i>Journal of Experimental Botany</i> , 2015 , 66, 2013-26	7	64

53	Transcriptional regulation of ribosome components are determined by stress according to cellular compartments in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2011 , 6, e28070	3.7	64
52	<i>Arabidopsis thaliana</i> ASN2 encoding asparagine synthetase is involved in the control of nitrogen assimilation and export during vegetative growth. <i>Plant, Cell and Environment</i> , 2013 , 36, 328-42	8.4	54
51	The contrasting N management of two oilseed rape genotypes reveals the mechanisms of proteolysis associated with leaf N remobilization and the respective contributions of leaves and stems to N storage and remobilization during seed filling. <i>BMC Plant Biology</i> , 2015 , 15, 59	5.3	52
50	Autophagy-related approaches for improving nutrient use efficiency and crop yield protection. <i>Journal of Experimental Botany</i> , 2018 , 69, 1335-1353	7	52
49	Autophagy as a possible mechanism for micronutrient remobilization from leaves to seeds. <i>Frontiers in Plant Science</i> , 2014 , 5, 11	6.2	50
48	Genetic variation suggests interaction between cold acclimation and metabolic regulation of leaf senescence. <i>Plant Physiology</i> , 2007 , 143, 434-46	6.6	49
47	Assessment and optimization of autophagy monitoring methods in <i>Arabidopsis</i> roots indicate direct fusion of autophagosomes with vacuoles. <i>Plant and Cell Physiology</i> , 2014 , 55, 715-26	4.9	48
46	Differential expression of two siderophore-dependent iron-acquisition pathways in <i>Erwinia chrysanthemi</i> 3937: characterization of a novel ferrisiderophore permease of the ABC transporter family. <i>Molecular Microbiology</i> , 1995 , 18, 33-43	4.1	47
45	A regulatory role of autophagy for resetting the memory of heat stress in plants. <i>Plant, Cell and Environment</i> , 2019 , 42, 1054-1064	8.4	46
44	QTL analysis for sugar-regulated leaf senescence supports flowering-dependent and -independent senescence pathways. <i>New Phytologist</i> , 2010 , 185, 420-33	9.8	44
43	Signalling potential of iron in plant-microbe interactions: the pathogenic switch of iron transport in <i>Erwinia chrysanthemi</i> . <i>Plant Journal</i> , 1995 , 7, 121-128	6.9	43
42	Glutamine and alpha-ketoglutarate are metabolite signals involved in nitrate reductase gene transcription in untransformed and transformed tobacco plants deficient in ferredoxin-glutamine-alpha-ketoglutarate aminotransferase. <i>Planta</i> , 2001 , 213, 265-71	4.7	42
41	Increases in activity of proteasome and papain-like cysteine protease in <i>Arabidopsis</i> autophagy mutants: back-up compensatory effect or cell-death promoting effect?. <i>Journal of Experimental Botany</i> , 2018 , 69, 1369-1385	7	37
40	Sixteen cytosolic glutamine synthetase genes identified in the <i>Brassica napus</i> L. genome are differentially regulated depending on nitrogen regimes and leaf senescence. <i>Journal of Experimental Botany</i> , 2014 , 65, 3927-47	7	37
39	Autophagy controls resource allocation and protein storage accumulation in <i>Arabidopsis</i> seeds. <i>Journal of Experimental Botany</i> , 2018 , 69, 1403-1414	7	36
38	Iron Is a Triggering Factor for Differential Expression of <i>Erwinia chrysanthemi</i> Strain 3937 Pectate Lyases in Pathogenesis of African Violets. <i>Molecular Plant-Microbe Interactions</i> , 1996 , 9, 198	3.6	35
37	Overexpression of ATG8 in <i>Arabidopsis</i> Stimulates Autophagic Activity and Increases Nitrogen Remobilization Efficiency and Grain Filling. <i>Plant and Cell Physiology</i> , 2019 , 60, 343-352	4.9	33
36	Concurrent activation of OsAMT1;2 and OsGOGAT1 in rice leads to enhanced nitrogen use efficiency under nitrogen limitation. <i>Plant Journal</i> , 2020 , 103, 7-20	6.9	30

35	SAG12, a Major Cysteine Protease Involved in Nitrogen Allocation during Senescence for Seed Production in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2018 , 59, 2052-2063	4.9	30
34	Three cytosolic glutamine synthetase isoforms localized in different-order veins act together for N remobilization and seed filling in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2018 , 69, 4379-4393	7	28
33	Morphological and physiological responses to contrasting nitrogen regimes in <i>Populus cathayana</i> is linked to resources allocation and carbon/nitrogen partition. <i>Environmental and Experimental Botany</i> , 2019 , 162, 247-255	5.9	27
32	Metabolomics of laminae and midvein during leaf senescence and source-sink metabolite management in <i>Brassica napus</i> L. leaves. <i>Journal of Experimental Botany</i> , 2018 , 69, 891-903	7	27
31	ASN1-encoded asparagine synthetase in floral organs contributes to nitrogen filling in <i>Arabidopsis</i> seeds. <i>Plant Journal</i> , 2017 , 91, 371-393	6.9	26
30	Proteomic and lipidomic analyses of the <i>Arabidopsis atg5</i> autophagy mutant reveal major changes in endoplasmic reticulum and peroxisome metabolisms and in lipid composition. <i>New Phytologist</i> , 2019 , 223, 1461-1477	9.8	26
29	QTL meta-analysis in <i>Arabidopsis</i> reveals an interaction between leaf senescence and resource allocation to seeds. <i>Journal of Experimental Botany</i> , 2014 , 65, 3949-62	7	26
28	Autophagy and Nutrients Management in Plants. <i>Cells</i> , 2019 , 8,	7.9	24
27	Autophagy Increases Zinc Bioavailability to Avoid Light-Mediated Reactive Oxygen Species Production under Zinc Deficiency. <i>Plant Physiology</i> , 2020 , 182, 1284-1296	6.6	22
26	Autophagy is essential for optimal translocation of iron to seeds in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2019 , 70, 859-869	7	22
25	Selective autophagy regulates heat stress memory in <i>Arabidopsis</i> by NBR1-mediated targeting of HSP90.1 and ROF1. <i>Autophagy</i> , 2021 , 17, 2184-2199	10.2	21
24	Autophagy controls carbon, nitrogen, and redox homeostasis in plants. <i>Autophagy</i> , 2016 , 12, 896-7	10.2	20
23	OsASN1 Overexpression in Rice Increases Grain Protein Content and Yield under Nitrogen-Limiting Conditions. <i>Plant and Cell Physiology</i> , 2020 , 61, 1309-1320	4.9	18
22	Evidence for the presence of photorespiration in desiccation-sensitive leaves of the C4 'resurrection' plant <i>Sporobolus stapfianus</i> during dehydration stress. <i>Journal of Experimental Botany</i> , 2007 , 58, 3929-39	7	18
21	Expression of a ferredoxin-dependent glutamate synthase gene in mesophyll and vascular cells and functions of the enzyme in ammonium assimilation in <i>Nicotiana tabacum</i> (L.). <i>Planta</i> , 2005 , 222, 667-77	4.7	17
20	Identification of Barley (<i>Hordeum vulgare</i> L.) Autophagy Genes and Their Expression Levels during Leaf Senescence, Chronic Nitrogen Limitation and in Response to Dark Exposure. <i>Agronomy</i> , 2016 , 6, 15	3.6	16
19	A physiological and molecular study of the effects of nickel deficiency and phenylphosphorodiamidate (PPD) application on urea metabolism in oilseed rape (<i>Brassica napus</i> L.). <i>Plant and Soil</i> , 2013 , 362, 79-92	4.2	14
18	Reserve lipids and plant autophagy. <i>Journal of Experimental Botany</i> , 2020 , 71, 2854-2861	7	12

17	A New Role for SAG12 Cysteine Protease in Roots of. <i>Frontiers in Plant Science</i> , 2018 , 9, 1998	6.2	9
16	Autophagy Controls Sulphur Metabolism in the Rosette Leaves of Arabidopsis and Facilitates S Remobilization to the Seeds. <i>Cells</i> , 2020 , 9,	7.9	9
15	Metabolite Profiling for Leaf Senescence in Barley Reveals Decreases in Amino Acids and Glycolysis Intermediates. <i>Agronomy</i> , 2017 , 7, 15	3.6	8
14	Quantitative Methods to Assess Differential Susceptibility of Natural Accessions to. <i>Frontiers in Plant Science</i> , 2017 , 8, 394	6.2	7
13	Impact of the Genetic Environment Interaction on the Dynamic of Nitrogen Pools in Arabidopsis. <i>Agriculture (Switzerland)</i> , 2018 , 8, 28	3	5
12	Genotypic Variation of Nitrogen Use Efficiency and Amino Acid Metabolism in Barley.. <i>Frontiers in Plant Science</i> , 2021 , 12, 807798	6.2	5
11	Post-flowering biotic and abiotic stresses impact nitrogen use efficiency and seed filling in Arabidopsis thaliana. <i>Journal of Experimental Botany</i> , 2020 , 71, 4578-4590	7	4
10	Transcriptional Plasticity of Autophagy-Related Genes Correlates with the Genetic Response to Nitrate Starvation in. <i>Cells</i> , 2020 , 9,	7.9	4
9	Integrating multiple omics to identify common and specific molecular changes occurring in Arabidopsis under chronic nitrate and sulfate limitations. <i>Journal of Experimental Botany</i> , 2020 , 71, 6471-6490	7.490	4
8	Current Understanding of Leaf Senescence in Rice. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
7	Ammonium stress increases microautophagic activity while impairing macroautophagic flux in Arabidopsis roots. <i>Plant Journal</i> , 2021 , 105, 1083-1097	6.9	2
6	Salicylic acid is a key player of Arabidopsis autophagy mutant susceptibility to the necrotrophic bacterium <i>Dickeya dadantii</i> . <i>Scientific Reports</i> , 2021 , 11, 3624	4.9	2
5	Autophagy is essential for optimal Fe translocation to seeds in Arabidopsis		1
4	How Lipids Contribute to Autophagosome Biogenesis, a Critical Process in Plant Responses to Stresses. <i>Cells</i> , 2021 , 10,	7.9	1
3	Absorption et assimilation du nitrate et recyclage de l'azote organique chez les plantes : intérêt pour le colza. <i>Oleagineux Corps Gras Lipides</i> , 2006 , 13, 393-402		0
2	A proposed role for endomembrane trafficking processes in regulating tonoplast content and vacuole dynamics under ammonium stress conditions in Arabidopsis root cells. <i>Plant Signaling and Behavior</i> , 2021 , 16, 1924977	2.5	0
1	Differential expression of <i>Erwinia chrysanthemi</i> strain 3937 pectate lyases in pathogenesis of African violets: importance of low iron environmental conditions. <i>Progress in Biotechnology</i> , 1996 , 14, 875-880		