Arnould SavourÃ©

List of Publications by Year
in descending order

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40 papers	7,113 citations	186265 28 h-index	302126 39 g-index
42 all docs	42 docs citations	42 times ranked	7438 citing authors

#	Article	IF	Citations
1	Proline: a multifunctional amino acid. Trends in Plant Science, 2010, 15, 89-97.	8.8	3,090
2	Diversity, distribution and roles of osmoprotective compounds accumulated in halophytes under abiotic stress. Annals of Botany, 2015, 115, 433-447.	2.9	703
3	How reactive oxygen species and proline face stress together. Plant Physiology and Biochemistry, 2014, 80, 278-284.	5.8	462
4	Overexpression of Î”1-pyrroline-5-carboxylate synthetase increases proline production and confers salt tolerance in transgenic potato plants. Plant Science, 2005, 169, 746-752.	3.6	228
5	Transcriptional regulation of proline biosynthesis in Medicago truncatula reveals developmental and environmental specific features. Physiologia Plantarum, 2004, 120, 442-450.	5.2	213
6	How Does Proline Treatment Promote Salt Stress Tolerance During Crop Plant Development?. Frontiers in Plant Science, 2020, 11, 1127.	3.6	211
7	Isolation, characterization, and chromosomal location of a gene encoding theÎ”1-pyrroline-5-carboxylate synthetase inArabidopsis thaliana. FEBS Letters, 1995, 372, 13-19.	2.8	174
8	Metabolome and water homeostasis analysis of Thellungiella salsuginea suggests that dehydration tolerance is a key response to osmotic stress in this halophyte. Plant Journal, 2010, 64, 215-229.	5.7	174
9	Hydrogen peroxide produced by <scp>NADPH</scp> oxidases increases proline accumulation during salt or mannitol stress in <scp>A</scp>rabidopsis thaliana. New Phytologist, 2015, 208, 1138-1148.	7.3	155
10	Calcium Signaling via Phospholipase C Is Essential for Proline Accumulation upon Ionic But Not Nonionic Hyperosmotic Stresses in Arabidopsis. Plant Physiology, 2007, 144, 503-512.	4.8	141
11	Comparative salt tolerance analysis between Arabidopsis thaliana and Thellungiella halophila, with special emphasis on K+/Na+ selectivity and proline accumulation. Journal of Plant Physiology, 2008, 165, 588-599.	3.5	134
12	Combined effects of long-term salinity and soil drying on growth, water relations, nutrient status and proline accumulation of Sesuvium portulacastrum. Comptes Rendus - Biologies, 2008, 331, 442-451.	0.2	117
13	NADPH oxidase-dependent H2O2 production is required for salt-induced antioxidant defense in Arabidopsis thaliana. Journal of Plant Physiology, 2015, 174, 5-15.	3.5	112
14	Proline metabolism as regulatory hub. Trends in Plant Science, 2022, 27, 39-55.	8.8	109
15	Proline dehydrogenase: a key enzyme in controlling cellular homeostasis. Frontiers in Bioscience - Landmark, 2012, 17, 607.	3.0	96
16	Comparative study of the effects of mannitol and PEG osmotic stress on growth and solute accumulation in Sesuvium portulacastrum. Environmental and Experimental Botany, 2007, 61, 10-17.	4.2	95
17	Effect of sodium chloride on the response of the halophyte species Sesuvium portulacastrum grown in mannitol-induced water stress. Journal of Plant Research, 2007, 120, 291-299.	2.4	94
18	Physiological response of halophytes to multiple stresses. Functional Plant Biology, 2013, 40, 883.	2.1	87

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19	Phospholipase D Is a Negative Regulator of Proline Biosynthesis in Arabidopsis thaliana. Journal of Biological Chemistry, 2004, 279, 14812-14818.	3.4	86
20	Effects of water deficit on growth and proline metabolism in Sesuvium portulacastrum. Environmental and Experimental Botany, 2006, 56, 231-238.	4.2	74
21	Geographical diversity and genetic relationships among Cedrus species estimated by AFLP. Tree Genetics and Genomes, 2007, 3, 275-285.	1.6	54
22	Biochemical characterization of proline dehydrogenase in Arabidopsis mitochondria. FEBS Journal, 2014, 281, 2794-2804.	4.7	54
23	Phospholipases C and D Modulate Proline Accumulation in Thellungiella halophila/salsuginea Differently According to the Severity of Salt or Hyperosmotic Stress. Plant and Cell Physiology, 2012, 53, 183-192.	3.1	53
24	Proteomic and functional analysis of proline dehydrogenase 1 link proline catabolism to mitochondrial electron transport in Arabidopsis thaliana. Biochemical Journal, 2016, 473, 2623-2634.	3.7	47
25	Proline oxidation fuels mitochondrial respiration during dark-induced leaf senescence in Arabidopsis thaliana. Journal of Experimental Botany, 2019, 70, 6203-6214.	4.8	47
26	Mutations in the Hyperosmotic Stress-Responsive Mitochondrial BASIC AMINO ACID CARRIER2 Enhance Proline Accumulation in Arabidopsis. Plant Physiology, 2010, 152, 1851-1862.	4.8	40
27	Involvement of Phosphatidylinositol 3-kinase in the regulation of proline catabolism in Arabidopsis thaliana. Frontiers in Plant Science, 2014, 5, 772.	3.6	35
28	Phospholipases DÎ¶1 and DÎ¶2 have distinct roles in growth and antioxidant systems in Arabidopsis thaliana responding to salt stress. Planta, 2017, 246, 721-735.	3.2	33
29	Ecophysiological and genomic analysis of salt tolerance of Cakile maritima. Environmental and Experimental Botany, 2013, 92, 64-72.	4.2	25
30	The proline cycle as an eukaryotic redox valve. Journal of Experimental Botany, 2021, 72, 6856-6866.	4.8	24
31	Effects of exogenous nitric oxide on growth, proline accumulation and antioxidant capacity in Cakile maritima seedlings subjected to water deficit stress. Functional Plant Biology, 2016, 43, 939.	2.1	21
32	Silicon improves physiological, biochemical, and morphological adaptations of alfalfa (Medicago) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	2.3	18
33	Beneficial Effects of Silicon (Si) on Sea Barley (Hordeum marinum Huds.) under Salt Stress. Silicon, 2021, 13, 4501-4517.	3.3	15
34	BASIC AMINO ACID CARRIER 2 gene expression modulates arginine and urea content and stress recovery in Arabidopsis leaves. Frontiers in Plant Science, 2014, 5, 330.	3.6	14
35	Exogenous Silicon Application Promotes Tolerance of Legumes and Their N2 Fixing Symbiosis to Salt Stress. Silicon, 2022, 14, 6517-6534.	3.3	14
36	A New Method for Accurately Measuring Î”1-Pyrroline-5-Carboxylate Synthetase Activity. Methods in Molecular Biology, 2010, 639, 333-340.	0.9	10

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37	Silicon (Si) Alleviates Iron Deficiency Effects in Sea Barley (Hordeum marinum) by Enhancing Iron Accumulation and Photosystem Activities. Silicon, 2022, 14, 6697-6712.	3.3	9
38	Effect of nitrogen deficiency, salinity and drought on proline metabolism in Sesuvium portulacastrum. , 2006, , 65-72.		7
39	Appropriate Activity Assays Are Crucial for the Specific Determination of Proline Dehydrogenase and Pyrroline-5-Carboxylate Reductase Activities. Frontiers in Plant Science, 2020, 11, 602939.	3.6	7
40	Opposite lipid signaling pathways tightly control proline accumulation in Arabidopsis thaliana and Thellungiella halophila. , 2008, , 317-324.		4