Maite Lacuesta

List of Publications by Year
in descending order

39 papers	1,709 citations	304368 22 h-index	315357 38 g-index
39 all docs	39 docs citations	39 times ranked	2017 citing authors

#	Article	IF	Citations
1	The oxidative stress caused by salinity in two barley cultivars is mitigated by elevated CO₂. Physiologia Plantarum, 2009, 135, 29-42.	2.6	227
2	Elevated CO2 alleviates the impact of drought on barley improving water status by lowering stomatal conductance and delaying its effects on photosynthesis. Environmental and Experimental Botany, 2007, 59, 252-263.	2.0	182
3	Elevated CO2 reduces the drought effect on nitrogen metabolism in barley plants during drought and subsequent recovery. Environmental and Experimental Botany, 2011, 71, 399-399.	2.0	99
4	Elevated CO2 reduces stomatal and metabolic limitations on photosynthesis caused by salinity in Hordeum vulgare. Photosynthesis Research, 2012, 111, 269-283.	1.6	95
5	Concentration of phenolic compounds is increased in lettuce grown under high light intensity and elevated CO 2. Plant Physiology and Biochemistry, 2018, 123, 233-241.	2.8	91
6	Metabolites and hormones are involved in the intraspecific variability of drought hardening in radiata pine. Journal of Plant Physiology, 2015, 188, 64-71.	1.6	69
7	Solute accumulation and elastic modulus changes in six radiata pine breeds exposed to drought. Tree Physiology, 2013, 33, 69-80.	1.4	66
8	Physiological response to drought in radiata pine: phytohormone implication at leaf level. Tree Physiology, 2012, 32, 435-449.	1.4	62
9	Influence of water stress on photosynthetic characteristics in barley plants under ambient and elevated CO₂ concentrations. Biologia Plantarum, 2010, 54, 285-292.	1.9	59
10	Atmospheric CO2 concentration influences the contributions of osmolyte accumulation and cell wall elasticity to salt tolerance in barley cultivars. Journal of Plant Physiology, 2010, 167, 15-22.	1.6	55
11	Lipoic acid and redox status in barley plants subjected to salinity and elevated CO₂. Physiologia Plantarum, 2010, 139, 256-68.	2.6	50
12	The impact of salt stress on the water status of barley plants is partially mitigated by elevated CO2. Environmental and Experimental Botany, 2009, 66, 463-470.	2.0	48
13	Growth and nutritional quality improvement in two differently pigmented lettuce cultivars grown under elevated CO2 and/or salinity. Scientia Horticulturae, 2015, 195, 56-66.	1.7	48
14	Glycolate accumulation causes a decrease of photosynthesis by inhibiting RUBISCO activity in maize. Journal of Plant Physiology, 1997, 150, 388-394.	1.6	46
15	Immunolocalization of IAA and ABA in roots and needles of radiata pine (Pinus radiata) during drought and rewatering. Tree Physiology, 2013, 33, 537-549.	1.4	45
16	Effect of Phosphinothricin (Glufosinate) on Activities of Glutamine Synthetase and Glutamate Dehydrogenase in Medicago sativa L.. Journal of Plant Physiology, 1989, 134, 304-307.	1.6	42
17	Effect of Phosphlnothricin (Glufosinate) on Photosynthesis and Chlorophyll Fluorescence Emission by Barley Leaves Illuminated Under Photorespiratory and Non-Photorespiratory Conditions. Journal of Experimental Botany, 1992, 43, 159-165.	2.4	41
18	Epigenetic and hormonal profile during maturation of Quercus Suber L. somatic embryos. Journal of Plant Physiology, 2015, 173, 51-61.	1.6	36

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19	High nitrate supply reduces growth in maize, from cell to whole plant. Journal of Plant Physiology, 2015, 173, 120-129.	1.6	33
20	Storage duration and temperature effect on the functional integrity of container and bare-root Pinus radiata D. Don stock-types. Trees - Structure and Function, 2001, 15, 289-296.	0.9	30
21	LabelStoma: A tool for stomata detection based on the YOLO algorithm. Computers and Electronics in Agriculture, 2020, 178, 105751.	3.7	27
22	The imbalance between C and N metabolism during high nitrate supply inhibits photosynthesis and overall growth in maize (Zea mays L.). Plant Physiology and Biochemistry, 2017, 120, 213-222.	2.8	25
23	The interaction between drought and elevated CO 2 in water relations in two grassland species is species-specific. Journal of Plant Physiology, 2018, 220, 193-202.	1.6	24
24	Sequential Effects of Acidic Precipitation and Drought on Photosynthesis and Chlorophyll Fluorescence Parameters of Pinus radiata D. Don Seedlings. Journal of Plant Physiology, 2000, 156, 84-92.	1.6	22
25	Carbon dioxide enrichment moderates salinity-induced effects on nitrogen acquisition and assimilation and their impact on growth in barley plants. Environmental and Experimental Botany, 2013, 87, 148-158.	2.0	22
26	The type of competition modulates the ecophysiological response of grassland species to elevated CO₂ and drought. Plant Biology, 2015, 17, 298-310.	1.8	22
27	The trans and cis zeatin isomers play different roles in regulating growth inhibition induced by high nitrate concentrations in maize. Plant Growth Regulation, 2018, 85, 199-209.	1.8	21
28	Title is missing!. Plant and Soil, 1997, 188, 49-58.	1.8	19
29	Comparative effects of PPT and AOA on photosynthesis and fluorescence chlorophyll parameters in Zea mays. Journal of Plant Physiology, 1997, 151, 641-648.	1.6	16
30	Sequential Effects of Acidic Precipitation and Drought on Water Relations of Pinus radiata Seedlings. Journal of Plant Physiology, 1999, 155, 93-100.	1.6	14
31	Effect of storage conditions on post planting water status and performance of Pinus radiata D. Don stock-types. Annals of Forest Science, 2004, 61, 695-704.	0.8	13
32	Glutamine synthetase from mesophyll and bundle sheath maize cells: isoenzyme complements and different sensitivities to phosphinothricin. Plant Cell Reports, 2000, 19, 1127-1134.	2.8	12
33	Ammonium assimilation in Pinus radiata seedlings: effects of storage treatments, transplanting stress and water regimes after planting under simulated field conditions. Environmental and Experimental Botany, 2006, 55, 1-14.	2.0	12
34	Changes in environmental CO2 concentration can modify Rhizobium-soybean specificity and condition plant fitness and productivity. Environmental and Experimental Botany, 2019, 162, 133-143.	2.0	12
35	Effect of cold storage treatments and transplanting stress on gas exchange, chlorophyll fluorescence and survival under water limiting conditions of Pinus radiata stock-types. European Journal of Forest Research, 2005, 124, 73-82.	1.1	8
36	Soybean Inoculated With One Bradyrhizobium Strain Isolated at Elevated [CO2] Show an Impaired C and N Metabolism When Grown at Ambient [CO2]. Frontiers in Plant Science, 2021, 12, 656961.	1.7	6

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37	Does Elevated CO2 Mitigate the Salt Effect on Photosynthesis in Barley Cultivars?. , 2008, , 1529-1533.		4
38	A physiological approach to study the competition ability of the grassland species Trifolium pratense and Agrostis capillaris. Journal of Plant Physiology, 2020, 254, 153284.	1.6	3
39	Interplay between 1-aminocyclopropane-1-carboxylic acid, Î³-aminobutyrate and D-glucose in the regulation of high nitrate-induced root growth inhibition in maize. Plant Science, 2020, 293, 110418.	1.7	3