Jordi Bort

List of Publications by Year in descending order

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43 papers	3,050 citations	147801 31 h-index	276875 41 g-index
44 all docs	44 docs citations	44 times ranked	3184 citing authors

#	Article	IF	Citations
1	Quantitative Trait Loci for Grain Yield and Adaptation of Durum Wheat (Triticum durum Desf.) Across a Wide Range of Water Availability. Genetics, 2008, 178, 489-511.	2.9	397
2	The Photosynthetic Role of Ears in C3 Cereals: Metabolism, Water Use Efficiency and Contribution to Grain Yield. Critical Reviews in Plant Sciences, 2007, 26, 1-16.	5.7	196
3	Water use efficiency in C3cereals under Mediterranean conditions: a review of physiological aspects. Annals of Applied Biology, 2007, 150, 307-321.	2.5	192
4	Water management practices and climate in ancient agriculture: inferences from the stable isotope composition of archaeobotanical remains. Vegetation History and Archaeobotany, 2005, 14, 510-517.	2.1	185
5	Can wheat yield be assessed by early measurements of Normalized Difference Vegetation Index?. Annals of Applied Biology, 2007, 150, 253-257.	2.5	164
6	Using vegetation indices derived from conventional digital cameras as selection criteria for wheat breeding in water-limited environments. Annals of Applied Biology, 2007, 150, 227-236.	2.5	150
7	NDVI as a potential tool for predicting biomass, plant nitrogen content and growth in wheat genotypes subjected to different water and nitrogen conditions. Cereal Research Communications, 2011, 39, 147-159.	1.6	147
8	The combined effect of constant water deficit and nitrogen supply on WUE, NUE and Î”¹³C in durum wheat potted plants. Annals of Applied Biology, 2007, 151, 277-289.	2.5	116
9	Patterns of genetic diversity and linkage disequilibrium in a highly structured Hordeum vulgare association-mapping population for the Mediterranean basin. Theoretical and Applied Genetics, 2009, 119, 175-187.	3.6	99
10	Contribution of the ear and the flag leaf to grain filling in durum wheat inferred from the carbon isotope signature: Genotypic and growing conditions effects. Journal of Integrative Plant Biology, 2014, 56, 444-454.	8.5	90
11	Comparative performance of Î´13C, Î´18O and Î´15N for phenotyping durum wheat adaptation to a dryland environment. Functional Plant Biology, 2013, 40, 595.	2.1	88
12	Comparison of flag leaf and ear photosynthesis with biomass and grain yield of durum wheat under various water conditions and genotypes. Agronomy for Sustainable Development, 2004, 24, 19-28.	0.8	87
13	Mixed model association scans of multi-environmental trial data reveal major loci controlling yield and yield related traits in Hordeum vulgare in Mediterranean environments. Theoretical and Applied Genetics, 2011, 122, 1363-1373.	3.6	75
14	Refixation of respiratory CO2in the ears of C3cereals. Journal of Experimental Botany, 1996, 47, 1567-1575.	4.8	73
15	Relationships of grain ?13C and ?18O with wheat phenology and yield under water-limited conditions. Annals of Applied Biology, 2007, 150, 207-215.	2.5	61
16	Detection and Quantification of Unbound Phytochelatin 2 in Plant Extracts of Brassica napus Grown with Different Levels of Mercury. Plant Physiology, 2006, 142, 742-749.	4.8	59
17	Role of awns in ear water-use efficiency and grain weight in barley. Agronomy for Sustainable Development, 1994, 14, 133-139.	0.8	59
18	Ultrastructure and subcellular distribution of Cr in Iris pseudacorus L. using TEM and X-ray microanalysis. Cell Biology and Toxicology, 2012, 28, 57-68.	5.3	58

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19	A panel of elite accessions of durum wheat (Triticum durum Desf.) suitable for association mapping studies. Plant Genetic Resources: Characterisation and Utilisation, 2006, 4, 79-85.	0.8	54
20	Durum wheat ears perform better than the flag leaves under water stress: Gene expression and physiological evidence. Environmental and Experimental Botany, 2018, 153, 271-285.	4.2	52
21	Post-green revolution genetic advance in durum wheat: The case of Spain. Field Crops Research, 2018, 228, 158-169.	5.1	49
22	Physiological traits contributed to the recent increase in yield potential of winter wheat from Henan Province, China. Journal of Integrative Plant Biology, 2014, 56, 492-504.	8.5	46
23	Mapping adaptation of barley to droughted environments. Euphytica, 2008, 161, 35-45.	1.2	44
24	Low-cost assessment of wheat resistance to yellow rust through conventional RGB images. Computers and Electronics in Agriculture, 2015, 116, 20-29.	7.7	44
25	Accumulation and toxic effects of chromium and zinc in Iris pseudacorus L.. Acta Physiologiae Plantarum, 2012, 34, 1217-1228.	2.1	42
26	The Hydrogen Isotope Composition Î´²H Reflects Plant Performance. Plant Physiology, 2019, 180, 793-812.	4.8	41
27	Barley adaptation and improvement in the Mediterranean basin. Plant Breeding, 2008, 127, 554-560.	1.9	40
28	Factors affecting the grain yield predicting attributes of spectral reflectance indices in durum wheat: growing conditions, genotype variability and date of measurement. International Journal of Remote Sensing, 2005, 26, 2337-2358.	2.9	39
29	The combined use of vegetation indices and stable isotopes to predict durum wheat grain yield under contrasting water conditions. Agricultural Water Management, 2015, 158, 196-208.	5.6	39
30	Immunocytochemical localization of phosphoenolpyruvate carboxylase and photosynthetic gas-exchange characteristics in ears of Triticum durum Desf.. Planta, 1993, 191, 507.	3.2	36
31	Relationships between early vigour, grain yield, leaf structure and stable isotope composition in field grown barley. Plant Physiology and Biochemistry, 1998, 36, 889-897.	5.8	36
32	Assessment of heavy metal tolerance in two plant species growing in experimental disturbed polluted urban soil. Journal of Soils and Sediments, 2018, 18, 2305-2317.	3.0	31
33	Crop phenotyping in a context of global change: What to measure and how to do it. Journal of Integrative Plant Biology, 2022, 64, 592-618.	8.5	29
34	Lack of C4 photosynthetic metabolism in ears of C3 cereals. Plant, Cell and Environment, 1995, 18, 697-702.	5.7	24
35	Molecular and physiological mechanisms associated with root exposure to mercury in barley. Metallomics, 2013, 5, 1305.	2.4	22
36	Effect of irrigation salinity and ecotype on the growth, physiological indicators and seed yield and quality of Salicornia europaea. Plant Science, 2021, 304, 110819.	3.6	20

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37	Comparative performance of the stable isotope signatures of carbon, nitrogen and oxygen in assessing early vigour and grain yield in durum wheat. Journal of Agricultural Science, 2014, 152, 408-426.	1.3	19
38	Use of RGB Vegetation Indexes in Assessing Early Effects of Verticillium Wilt of Olive in Asymptomatic Plants in High and Low Fertility Scenarios. Remote Sensing, 2019, 11, 607.	4.0	17
39	Physiological responses of Eichhornia crassipes [Mart.] Solms to the combined exposure to excess nutrients and Hg. Brazilian Journal of Plant Physiology, 2009, 21, 1-12.	0.5	12
40	Agronomic and physiological responses of Chinese facultative wheat genotypes to high-yielding Mediterranean conditions. Journal of Agricultural Science, 2016, 154, 870-889.	1.3	10
41	Identification of traits associated with barley yield performance using contrasting nitrogen fertilizations and genotypes. Plant Science, 2019, 282, 83-94.	3.6	7
42	Challenges and Bottlenecks in VAV Phenotyping. , 2018, , .		1
43	Comparative performance of the stable isotope signatures of carbon, nitrogen and oxygen in assessing early vigour and grain yield in durum wheat â€“ CORRIGENDUM. Journal of Agricultural Science, 2014, 152, 427-427.	1.3	0