

# Jordi Bort

## List of Publications by Year in descending order

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42  
papers

3,050  
citations

147566

31  
h-index

276539

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 ( <i>Triticum durum</i> Desf.) Across a Wide Range of Water Availability. <i>Genetics</i> , 2008, 178, 489-511.	1.2	397
2	The Photosynthetic Role of Ears in C3 Cereals: Metabolism, Water Use Efficiency and Contribution to Grain Yield. <i>Critical Reviews in Plant Sciences</i> , 2007, 26, 1-16.	2.7	196
3	Water use efficiency in C3cereals under Mediterranean conditions: a review of physiological aspects. <i>Annals of Applied Biology</i> , 2007, 150, 307-321.	1.3	192
4	Water management practices and climate in ancient agriculture: inferences from the stable isotope composition of archaeobotanical remains. <i>Vegetation History and Archaeobotany</i> , 2005, 14, 510-517.	1.0	185
5	Can wheat yield be assessed by early measurements of Normalized Difference Vegetation Index?. <i>Annals of Applied Biology</i> , 2007, 150, 253-257.	1.3	164
6	Using vegetation indices derived from conventional digital cameras as selection criteria for wheat breeding in water-limited environments. <i>Annals of Applied Biology</i> , 2007, 150, 227-236.	1.3	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. <i>Cereal Research Communications</i> , 2011, 39, 147-159.	0.8	147
8	The combined effect of constant water deficit and nitrogen supply on WUE, NUE and $\delta^{13}C$ in durum wheat potted plants. <i>Annals of Applied Biology</i> , 2007, 151, 277-289.	1.3	116
9	Patterns of genetic diversity and linkage disequilibrium in a highly structured <i>Hordeum vulgare</i> association-mapping population for the Mediterranean basin. <i>Theoretical and Applied Genetics</i> , 2009, 119, 175-187.	1.8	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. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 444-454.	4.1	90
11	Comparative performance of $\delta^{13}C$ , $\delta^{18}O$ and $\delta^{15}N$ for phenotyping durum wheat adaptation to a dryland environment. <i>Functional Plant Biology</i> , 2013, 40, 595.	1.1	88
12	Comparison of flag leaf and ear photosynthesis with biomass and grain yield of durum wheat under various water conditions and genotypes. <i>Agronomy for Sustainable Development</i> , 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 <i>Hordeum vulgare</i> in Mediterranean environments. <i>Theoretical and Applied Genetics</i> , 2011, 122, 1363-1373.	1.8	75
14	Refixation of respiratory CO <sub>2</sub> in the ears of C3cereals. <i>Journal of Experimental Botany</i> , 1996, 47, 1567-1575.	2.4	73
15	Relationships of grain $\delta^{13}C$ and $\delta^{18}O$ with wheat phenology and yield under water-limited conditions. <i>Annals of Applied Biology</i> , 2007, 150, 207-215.	1.3	61
16	Detection and Quantification of Unbound Phytochelatin 2 in Plant Extracts of <i>Brassica napus</i> Grown with Different Levels of Mercury. <i>Plant Physiology</i> , 2006, 142, 742-749.	2.3	59
17	Role of awns in ear water-use efficiency and grain weight in barley. <i>Agronomy for Sustainable Development</i> , 1994, 14, 133-139.	0.8	59
18	Ultrastructure and subcellular distribution of Cr in <i>Iris pseudacorus</i> L. using TEM and X-ray microanalysis. <i>Cell Biology and Toxicology</i> , 2012, 28, 57-68.	2.4	58

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19	A panel of elite accessions of durum wheat ( <i>Triticum durum</i> Desf.) suitable for association mapping studies. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2006, 4, 79-85.	0.4	54
20	Durum wheat ears perform better than the flag leaves under water stress: Gene expression and physiological evidence. <i>Environmental and Experimental Botany</i> , 2018, 153, 271-285.	2.0	52
21	Post-green revolution genetic advance in durum wheat: The case of Spain. <i>Field Crops Research</i> , 2018, 228, 158-169.	2.3	49
22	Physiological traits contributed to the recent increase in yield potential of winter wheat from Henan Province, China. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 492-504.	4.1	46
23	Mapping adaptation of barley to droughted environments. <i>Euphytica</i> , 2008, 161, 35-45.	0.6	44
24	Low-cost assessment of wheat resistance to yellow rust through conventional RGB images. <i>Computers and Electronics in Agriculture</i> , 2015, 116, 20-29.	3.7	44
25	Accumulation and toxic effects of chromium and zinc in <i>Iris pseudacorus</i> L.. <i>Acta Physiologiae Plantarum</i> , 2012, 34, 1217-1228.	1.0	42
26	The Hydrogen Isotope Composition $\delta^2\text{H}$ Reflects Plant Performance. <i>Plant Physiology</i> , 2019, 180, 793-812.	2.3	41
27	Barley adaptation and improvement in the Mediterranean basin. <i>Plant Breeding</i> , 2008, 127, 554-560.	1.0	40
28	Factors affecting the grain yield predicting attributes of spectral reflectance indices in durum wheat: growing conditions, genotype variability and date of measurement. <i>International Journal of Remote Sensing</i> , 2005, 26, 2337-2358.	1.3	39
29	The combined use of vegetation indices and stable isotopes to predict durum wheat grain yield under contrasting water conditions. <i>Agricultural Water Management</i> , 2015, 158, 196-208.	2.4	39
30	Immunocytochemical localization of phosphoenolpyruvate carboxylase and photosynthetic gas-exchange characteristics in ears of <i>Triticum durum</i> Desf.. <i>Planta</i> , 1993, 191, 507.	1.6	36
31	Relationships between early vigour, grain yield, leaf structure and stable isotope composition in field grown barley. <i>Plant Physiology and Biochemistry</i> , 1998, 36, 889-897.	2.8	36
32	Assessment of heavy metal tolerance in two plant species growing in experimental disturbed polluted urban soil. <i>Journal of Soils and Sediments</i> , 2018, 18, 2305-2317.	1.5	31
33	Crop phenotyping in a context of global change: What to measure and how to do it. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 592-618.	4.1	29
34	Lack of C4 photosynthetic metabolism in ears of C3 cereals. <i>Plant, Cell and Environment</i> , 1995, 18, 697-702.	2.8	24
35	Molecular and physiological mechanisms associated with root exposure to mercury in barley. <i>Metallomics</i> , 2013, 5, 1305.	1.0	22
36	Effect of irrigation salinity and ecotype on the growth, physiological indicators and seed yield and quality of <i>Salicornia europaea</i> . <i>Plant Science</i> , 2021, 304, 110819.	1.7	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. <i>Journal of Agricultural Science</i> , 2014, 152, 408-426.	0.6	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. <i>Remote Sensing</i> , 2019, 11, 607.	1.8	17
39	Physiological responses of <i>Eichhornia crassipes</i> [Mart.] Solms to the combined exposure to excess nutrients and Hg. <i>Brazilian Journal of Plant Physiology</i> , 2009, 21, 1-12.	0.5	12
40	Agronomic and physiological responses of Chinese facultative wheat genotypes to high-yielding Mediterranean conditions. <i>Journal of Agricultural Science</i> , 2016, 154, 870-889.	0.6	10
41	Identification of traits associated with barley yield performance using contrasting nitrogen fertilizations and genotypes. <i>Plant Science</i> , 2019, 282, 83-94.	1.7	7
42	Challenges and Bottlenecks in VAV Phenotyping. , 2018, , .		1