

Boris Parent

List of Publications by Year in descending order

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26
papers

2,063
citations

394421

19
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580821

25
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docs citations

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times ranked

2933
citing authors

#	ARTICLE	IF	CITATIONS
1	Drought and Abscisic Acid Effects on Aquaporin Content Translate into Changes in Hydraulic Conductivity and Leaf Growth Rate: A Trans-Scale Approach. <i>Plant Physiology</i> , 2009, 149, 2000-2012.	4.8	331
2	High-throughput shoot imaging to study drought responses. <i>Journal of Experimental Botany</i> , 2010, 61, 3519-3528.	4.8	313
3	Temperature responses of developmental processes have not been affected by breeding in different ecological areas for 17 crop species. <i>New Phytologist</i> , 2012, 194, 760-774.	7.3	203
4	Genetic and Physiological Controls of Growth under Water Deficit. <i>Plant Physiology</i> , 2014, 164, 1628-1635.	4.8	141
5	Diel time-courses of leaf growth in monocot and dicot species: endogenous rhythms and temperature effects. <i>Journal of Experimental Botany</i> , 2010, 61, 1751-1759.	4.8	122
6	Can current crop models be used in the phenotyping era for predicting the genetic variability of yield of plants subjected to drought or high temperature?. <i>Journal of Experimental Botany</i> , 2014, 65, 6179-6189.	4.8	100
7	Rice leaf growth and water potential are resilient to evaporative demand and soil water deficit once the effects of root system are neutralized. <i>Plant, Cell and Environment</i> , 2010, 33, 1256-1267.	5.7	94
8	Maize yields over Europe may increase in spite of climate change, with an appropriate use of the genetic variability of flowering time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10642-10647.	7.1	94
9	Modelling the coordination of the controls of stomatal aperture, transpiration, leaf growth, and abscisic acid: update and extension of the Tardieu-Davies model. <i>Journal of Experimental Botany</i> , 2015, 66, 2227-2237.	4.8	91
10	Genetic control of grain yield and grain physical characteristics in a bread wheat population grown under a range of environmental conditions. <i>Theoretical and Applied Genetics</i> , 2014, 127, 1607-1624.	3.6	85
11	Multi-environment analysis and improved mapping of a yield-related QTL on chromosome 3B of wheat. <i>Theoretical and Applied Genetics</i> , 2013, 126, 747-761.	3.6	77
12	A Hydraulic Model Is Compatible with Rapid Changes in Leaf Elongation under Fluctuating Evaporative Demand and Soil Water Status. <i>Plant Physiology</i> , 2014, 164, 1718-1730.	4.8	73
13	Combining field performance with controlled environment plant imaging to identify the genetic control of growth and transpiration underlying yield response to water-deficit stress in wheat. <i>Journal of Experimental Botany</i> , 2015, 66, 5481-5492.	4.8	67
14	Quantifying Wheat Sensitivities to Environmental Constraints to Dissect Genotype × Environment Interactions in the Field. <i>Plant Physiology</i> , 2017, 174, 1669-1682.	4.8	42
15	Modification of the Expression of the Aquaporin ZmPIP2;5 Affects Water Relations and Plant Growth. <i>Plant Physiology</i> , 2020, 182, 2154-2165.	4.8	39
16	Predictable “meta” mechanisms™ emerge from feedbacks between transpiration and plant growth and cannot be simply deduced from short-term mechanisms. <i>Plant, Cell and Environment</i> , 2017, 40, 846-857.	5.7	34
17	Distinct controls of leaf widening and elongation by light and evaporative demand in maize. <i>Plant, Cell and Environment</i> , 2017, 40, 2017-2028.	5.7	31
18	Spatial and temporal analysis of non-steady elongation of rice leaves. <i>Plant, Cell and Environment</i> , 2009, 32, 1561-1572.	5.7	28

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19	The use of thermal time in plant studies has a sound theoretical basis provided that confounding effects are avoided. <i>Journal of Experimental Botany</i> , 2019, 70, 2359-2370.	4.8	26
20	Experimental and modeling evidence of carbon limitation of leaf appearance rate for spring and winter wheat. <i>Journal of Experimental Botany</i> , 2019, 70, 2449-2462.	4.8	21
21	The plasma membrane aquaporin ZmPIP2;5 enhances the sensitivity of stomatal closure to water deficit. <i>Plant, Cell and Environment</i> , 2022, 45, 1146-1156.	5.7	18
22	Heat susceptibility of grain filling in wheat (<i>Triticum aestivum</i> L.) linked with rapid chlorophyll loss during a 3-day heat treatment. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	2.1	11
23	Towards parsimonious ecophysiological models that bridge ecology and agronomy. <i>New Phytologist</i> , 2016, 210, 380-382.	7.3	10
24	Simulating the effect of flowering time on maize individual leaf area in contrasting environmental scenarios. <i>Journal of Experimental Botany</i> , 2020, 71, 5577-5588.	4.8	6
25	Diverging temperature responses of CO ₂ assimilation and plant development explain the overall effect of temperature on biomass accumulation in wheat leaves and grains. <i>AoB PLANTS</i> , 2017, , plw092.	2.3	4
26	Sensitivities to temperature and evaporative demand in wheat relatives. <i>Journal of Experimental Botany</i> , 2021, , .	4.8	2