

John B Passioura

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2003517/publications.pdf>

Version: 2024-02-01

41
papers

6,507
citations

136740

32
h-index

276539

41
g-index

42
all docs

42
docs citations

42
times ranked

5922
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Transport in and to Roots. <i>Annual Review of Plant Biology</i> , 1988, 39, 245-265.	14.2	404
2	Increasing crop productivity when water is scarce— from breeding to field management. <i>Agricultural Water Management</i> , 2006, 80, 176-196.	2.4	373
3	The drought environment: physical, biological and agricultural perspectives. <i>Journal of Experimental Botany</i> , 2006, 58, 113-117.	2.4	332
4	Soil Water Status Affects the Stomata ¹ . <i>Functional Plant Biology</i> , 1986, 13, 459.	1.1	311
5	A breeding program to reduce the diameter of the major xylem vessel in the seminal roots of wheat and its effect on grain yield in rain-fed environments. <i>Australian Journal of Agricultural Research</i> , 1989, 40, 943.	1.5	288
6	Soil conditions and plant growth TM . <i>Plant, Cell and Environment</i> , 2002, 25, 311-318.	2.8	287
7	The effect of root geometry on the yield of wheat growing on stored water. <i>Australian Journal of Agricultural Research</i> , 1972, 23, 745.	1.5	258
8	Improving Productivity of Crops in Water-Limited Environments. <i>Advances in Agronomy</i> , 2010, 106, 37-75.	2.4	257
9	Soil structure and plant growth. <i>Soil Research</i> , 1991, 29, 717.	0.6	252
10	Viewpoint: The perils of pot experiments. <i>Functional Plant Biology</i> , 2006, 33, 1075.	1.1	246
11	Osmotic adjustment and energy limitations to plant growth in saline soil. <i>New Phytologist</i> , 2020, 225, 1091-1096.	3.5	245
12	Nutrient availability limits carbon sequestration in arable soils. <i>Soil Biology and Biochemistry</i> , 2014, 68, 402-409.	4.2	240
13	Soil structure and plant growth: Impact of bulk density and biopores. <i>Plant and Soil</i> , 1996, 185, 151-162.	1.8	239
14	Drought and drought tolerance. <i>Plant Growth Regulation</i> , 1996, 20, 79-83.	1.8	235
15	Simulation Models: Science, Snake Oil, Education, or Engineering?. <i>Agronomy Journal</i> , 1996, 88, 690-694.	0.9	228
16	Phenotyping for drought tolerance in grain crops: when is it useful to breeders?. <i>Functional Plant Biology</i> , 2012, 39, 851.	1.1	228
17	Rates of Root and Organism Growth, Soil Conditions, and Temporal and Spatial Development of the Rhizosphere. <i>Annals of Botany</i> , 2006, 97, 839-855.	1.4	224
18	The Effect of Soil Strength on the Growth of Young Wheat Plants. <i>Functional Plant Biology</i> , 1987, 14, 643.	1.1	218

#	ARTICLE	IF	CITATIONS
19	Review: Environmental biology and crop improvement. <i>Functional Plant Biology</i> , 2002, 29, 537.	1.1	214
20	Shoot Turgor Does Not Limit Shoot Growth of NaCl-Affected Wheat and Barley. <i>Plant Physiology</i> , 1985, 77, 869-872.	2.3	188
21	Water relations and leaf expansion: importance of time scale. <i>Journal of Experimental Botany</i> , 2000, 51, 1495-1504.	2.4	171
22	Root Signals Control Leaf Expansion in Wheat Seedlings Growing in Drying Soil. <i>Functional Plant Biology</i> , 1988, 15, 687.	1.1	165
23	Root hairs enable high transpiration rates in drying soils. <i>New Phytologist</i> , 2017, 216, 771-781.	3.5	123
24	Scaling up: the essence of effective agricultural research. <i>Functional Plant Biology</i> , 2010, 37, 585.	1.1	109
25	Rhizosphere biology and crop productivity—a review. <i>Soil Research</i> , 2006, 44, 299.	0.6	107
26	Yield improvement and adaptation of wheat to water-limited environments in Australia—a case study. <i>Crop and Pasture Science</i> , 2014, 65, 676.	0.7	101
27	Osmotic adjustment leads to anomalously low estimates of relative water content in wheat and barley. <i>Functional Plant Biology</i> , 2008, 35, 1172.	1.1	100
28	Opportunities to reduce heat damage in rain-fed wheat crops based on plant breeding and agronomic management. <i>Field Crops Research</i> , 2018, 224, 126-138.	2.3	54
29	Hydraulic processes in roots and the rhizosphere pertinent to increasing yield of water-limited grain crops: a critical review. <i>Journal of Experimental Botany</i> , 2018, 69, 3255-3265.	2.4	44
30	Rapid environmental changes that affect leaf water status induce transient surges or pauses in leaf expansion rate.. <i>Functional Plant Biology</i> , 2000, 27, 941.	1.1	42
31	Translational research in agriculture. Can we do it better?. <i>Crop and Pasture Science</i> , 2020, 71, 517.	0.7	39
32	Making science more effective for agriculture. <i>Advances in Agronomy</i> , 2020, , 153-177.	2.4	34
33	Leaf water status controls day-time but not daily rates of leaf expansion in salt-treated barley.. <i>Functional Plant Biology</i> , 2000, 27, 949.	1.1	32
34	Tissue stresses and resistance to water flow conspire to uncouple the water potential of the epidermis from that of the xylem in elongating plant stems. <i>Functional Plant Biology</i> , 2003, 30, 325.	1.1	31
35	Does shoot water status limit leaf expansion of nitrogen-deprived barley?. <i>Journal of Experimental Botany</i> , 2002, 53, 1765-1770.	2.4	22
36	Climate change and Australian wheat yield. <i>Nature</i> , 1998, 391, 448-449.	13.7	18

#	ARTICLE	IF	CITATIONS
37	Prologue: Amending agricultural water use to maintain production while affording environmental protection through control of outflow. Australian Journal of Agricultural Research, 2006, 57, 251.	1.5	16
38	Uptake of water from a Kandosol subsoil. II. Control of water uptake by roots. Plant and Soil, 2013, 368, 649-667.	1.8	12
39	Uptake of water from a Kandosol subsoil: I. Determination of soil water diffusivity. Plant and Soil, 2013, 368, 483-492.	1.8	5
40	Epilogue: from propaganda to practicalities – the progressive evolution of the salinity debate. Australian Journal of Experimental Agriculture, 2005, 45, 1503.	1.0	4
41	Preface: Enduring prosperity for Farmland?. Australian Journal of Agricultural Research, 2001, 52, 1.	1.5	1