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## Roots and drought resistance

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#	Paper	IF	Citations
370	Strategies for crop improvement for drought-prone regions. <i>Agricultural Water Management</i> , <b>1983</b> , 7, 281-299	5.9	60
369	Performance of wheat and triticale cultivars in a variable soil/water environment II. Evapotranspiration, water use efficiency, harvest index and grain yield. <b>1986</b> , 13, 301-315		44
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351	Water extraction by grain sorghum in a sub-humid environment. II. Extraction in relation to root growth. <b>1993</b> , 33, 99-112		77
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191	Soil water capture trends over 50 years of single-cross maize ( <i>Zea mays</i> L.) breeding in the US corn-belt. <b>2015</b> , 66, 7339-46		39
190	Comparative assessment of the sensitivity of oilseed rape and wheat to limited water supply. <b>2015</b> , 167, 102-115		10
189	Response of cotton root growth and yield to root restriction under various water and nitrogen regimes. <b>2015</b> , 178, 384-392		19
188	Contrasting strategies to cope with drought conditions by two tropical forage C4 grasses. <b>2015</b> , 7,		12
187	Selection for Sustained Production in Water-Deficit Environments. <b>2015</b> , 343-347		11
186	Assessing Genetic Variability for Root Traits and Identification of Trait-Specific Germplasm in Chickpea Reference Set. <b>2015</b> , 55, 2034-2045		8
185	The Ideotype Concept: Useful or Outdated?. <b>2015</b> , 589-597		2
184	Identification of sorghum ( <i>Sorghum bicolor</i> L. Moench) landraces tolerant to post flowering drought stress using drought tolerance indices. <b>2015</b> , 7, 211-218		2
183	The Yield of Crops in Relation to Drought. <b>2015</b> , 343-359		4
182	Integrating Crop Growth Models with Whole Genome Prediction through Approximate Bayesian Computation. <i>PLoS ONE</i> , <b>2015</b> , 10, e0130855	3.7	115
181	Control of Seed Germination and Plant Development by Carbon and Nitrogen Availability. <b>2015</b> , 6, 1023		31
180	Pavon 76 Bread Wheat Bye Translocations Improve Field Root Biomass Production under Diverse Nitrogen Management Systems. <b>2015</b> , 107, 1608-1617		0
179	Root length densities of UK wheat and oilseed rape crops with implications for water capture and yield. <b>2015</b> , 66, 2293-303		53
178	Impact of domestication on the phenotypic architecture of durum wheat under contrasting nitrogen fertilization. <b>2015</b> , 66, 5519-30		46
177	Genetic variation in seminal and nodal root angle and their association with grain yield of maize under water-stressed field conditions. <i>Plant and Soil</i> , <b>2015</b> , 397, 213-225	4.2	25
176	Scope for improvement of yield under drought through the root traits in chickpea ( <i>Cicer arietinum</i> L.). <b>2015</b> , 170, 47-54		62
175	Integration of biotechnology, plant breeding and crop physiology. Dealing with complex interactions from a physiological perspective. <b>2015</b> , 487-503		1
174	Physiological Traits for Ameliorating Drought Stress. <i>Agronomy</i> , <b>2016</b> , 569-620	0.8	7

173	Recent Advances in Peanut Breeding and Genetics. <b>2016</b> , 111-145		4
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171	Soil amendment with biochar increases maize yields in a semi-arid region by improving soil quality and root growth. <b>2016</b> , 67, 495		57
170	Root and shoot traits of bread wheat ( <i>Triticum aestivum</i> L.) landraces and cultivars. <b>2016</b> , 212, 297-311		20
169	Review: An integrated framework for crop adaptation to dry environments: Responses to transient and terminal drought. <b>2016</b> , 253, 58-67		51
168	Root carbon consumption and grain yield of spring wheat in response to phosphorus supply under two water regimes. <b>2016</b> , 15, 1595-1601		2
167	Root growth and Zn uptake of three common crop plants in response to heterogeneity in soil texture and Zn distribution. <b>2016</b> , 127, 45-54		3
166	Interactive effect of water and nitrogen regimes on plant growth, root traits and water status of old and modern durum wheat genotypes. <b>2016</b> , 244, 125-44		32
165	Six crop models differ in their simulation of water uptake. <b>2016</b> , 220, 116-129		24
164	Heterosis for water status in maize seedlings. <i>Agricultural Water Management</i> , <b>2016</b> , 164, 100-109	5.9	10
163	Root biomass in the upper layer of the soil profile is related to the stomatal response of wheat as the soil dries. <i>Functional Plant Biology</i> , <b>2015</b> , 43, 62-74	2.7	13
162	Wheats developed for high yield on stored soil moisture have deep vigorous root systems. <i>Functional Plant Biology</i> , <b>2016</b> , 43, 173-188	2.7	18
161	Greenhouse screening of maize genotypes for deep root mass and related root traits and their association with grain yield under water-deficit conditions in the field. <b>2016</b> , 207, 79-94		20
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159	Morphological and physiological responses of different wheat genotypes to chilling stress: a cue to explain yield loss. <i>Journal of the Science of Food and Agriculture</i> , <b>2017</b> , 97, 4036-4045	4-3	5
158	Root traits confer grain yield advantages under terminal drought in chickpea ( <i>C.</i> ). <b>2017</b> , 201, 146-161		45
157	Compatibility of root growth and tuber production of potato cultivars with dynamic and static water-saving irrigation managements. <b>2017</b> , 33, 106-119		9
156	Root traits of cup plant, maize and lucerne grass grown under different soil and soil moisture conditions. <b>2017</b> , 203, 345-359		15

155	Stomatal behaviour under terminal drought affects post-anthesis water use in wheat. <i>Functional Plant Biology</i> , <b>2017</b> , 44, 279-289	2.7	12
154	Selection of drought tolerant and sensitive genotypes from wheat DH population. <b>2017</b> , 39, 1		2
153	Short-term effects of tillage and residue on spring maize yield through regulating root-shoot ratio in Northeast China. <b>2017</b> , 7, 13314		21
152	Genotypic Variation for Water-Deficit Tolerance in Cotton ( <i>Gossypiumhirsutum</i> L.) Germination in Southern Iran. <b>2017</b> , 48, 1343-1358		
151	Screening for Natural Variation in Water Use Efficiency Traits in a Diversity Set of Brassica napus L. Identifies Candidate Variants in Photosynthetic Assimilation. <b>2017</b> , 58, 1700-1709		7
150	Three-dimensional Reconstruction of Maize Roots and Quantitative Analysis of Metaxylem Vessels based on X-ray Micro-Computed Tomography. <b>2017</b> ,		1
149	Effects of Drought Stress on Morphophysiological Traits, Biochemical Characteristics, Yield, and Yield Components in Different Ploidy Wheat. <b>2017</b> , 139-173		23
148	Characteristics of the root system in the diploid genome donors of hexaploid wheat ( <i>Triticum aestivum</i> L.). <b>2017</b> , 64, 1641-1650		7
147	Morphological and physiological traits of seeds and seedlings in two rice cultivars with contrasting early vigor. <b>2017</b> , 20, 95-101		13
146	Five decades of selection for yield reduced root length density and increased nitrogen uptake per unit root length in Australian wheat varieties. <i>Plant and Soil</i> , <b>2017</b> , 413, 181-192	4.2	78
145	Soil water extraction patterns of lucerne grown on stony soils. <i>Plant and Soil</i> , <b>2017</b> , 414, 95-112	4.2	12
144	Growth, Morphological, and Physiological Responses to Drought Stress in. <b>2017</b> , 8, 230		19
143	ABA-Mediated Stomatal Response in Regulating Water Use during the Development of Terminal Drought in Wheat. <b>2017</b> , 8, 1251		73
142	Leaf Senescence, Root Morphology, and Seed Yield of Winter Oilseed Rape ( <i>L.</i> ) at Varying Plant Densities. <b>2017</b> , 2017, 8581072		2
141	Genetic diversity of root system architecture in response to drought stress in grain legumes. <b>2018</b> , 69, 3267-3277		60
140	Modelling soil-water dynamics in the rootzone of structured and water-repellent soils. <b>2018</b> , 113, 33-42		11
139	Great Plains Winter Wheat Varies for Root Length and Diameter under Drought Stress. <b>2018</b> , 110, 226-235		17
138	Bulked line analysis: a useful tool to identify microsatellite markers linked to drought tolerance in rice. <b>2018</b> , 23, 7-15		7

137	Modelling the nitrogen dynamics of maize crops [Enhancing the APSIM maize model. <b>2018</b> , 100, 118-131		44
136	Phenotyping for testing drought tolerance on wheat varieties of different origins. <b>2018</b> , 116, 216-221		3
135	Effect of sowing time and seeding rate on yield components and water use efficiency of winter wheat by regulating the growth redundancy and physiological traits of root and shoot. <b>2018</b> , 221, 166-174		33
134	Morphological and physiological traits of rice roots and their relationships to yield and nitrogen utilization as influenced by irrigation regime and nitrogen rate. <i>Agricultural Water Management</i> , <b>2018</b> , 203, 385-394	5.9	31
133	Quantification of root water uptake in soil using X-ray computed tomography and image-based modelling. <b>2018</b> , 41, 121-133		24
132	Efficient Irrigation Water Management in Sugarcane Through Alteration of Field Application Parameters Under Subtropical India. <b>2018</b> , 20, 21-28		8
131	Root-soil physical and biotic interactions with a focus on tree root systems: A review. <b>2018</b> , 123, 318-327		18
130	Potential benefits of drought and heat tolerance for adapting maize to climate change in tropical environments. <b>2018</b> , 19, 106-119		37
129	Mixed-nitrogen nutrition-mediated enhancement of drought tolerance of rice seedlings associated with photosynthesis, hormone balance and carbohydrate partitioning. <b>2018</b> , 84, 451-465		23
128	Assessing the performance of different irrigation systems on winter wheat under limited water supply. <i>Agricultural Water Management</i> , <b>2018</b> , 196, 133-143	5.9	35
127	The effects of plastic-film mulch on the grain yield and root biomass of maize vary with cultivar in a cold semiarid environment. <b>2018</b> , 216, 89-99		55
126	Activated Expression of PHT Genes Contributes to Osmotic Stress Resistance under Low Phosphorus Levels in Malus. <b>2018</b> , 143, 436-445		1
125	Specific root length, soil water status, and grain yields of irrigated and rainfed winter barley in the raised bed and flat planting systems. <i>Agricultural Water Management</i> , <b>2018</b> , 210, 304-315	5.9	10
124	Relationship between taproot morphological traits, carbon isotope composition and grain yield in safflower. <b>2018</b> , 32, 471-486		
123	Water use and growth responses of dryland wheat grown under elevated [CO <sub>2</sub> ] are associated with root length in deeper, but not upper soil layer. <b>2018</b> , 224, 170-181		21
122	Hydraulic processes in roots and the rhizosphere pertinent to increasing yield of water-limited grain crops: a critical review. <b>2018</b> , 69, 3255-3265		26
121	Whole root system water conductance responds to both axial and radial traits and network topology over natural range of trait variation. <b>2018</b> , 456, 49-61		10
120	Genetic Improvement of Nitrogen Use Efficiency in Oilseed Rape. <b>2018</b> , 207-232		1

119	The Effect of Supplemental Irrigation on Canopy Temperature Depression, Chlorophyll Content, and Water Use Efficiency in Three Wheat ( <i>Triticum aestivum</i> L. and <i>T. durum</i> Desf.) Varieties Grown in Dry Regions of Jordan. <b>2018</b> , 8, 67		12
118	Responses of photosynthesis, dry mass and carbon isotope discrimination in winter wheat to different irrigation depths. <b>2018</b> , 56, 1437-1446		2
117	Introgression of Physiological Traits for a Comprehensive Improvement of Drought Adaptation in Crop Plants. <b>2018</b> , 6, 92		26
116	Characterization of Root and Shoot Traits in Wheat Cultivars with Putative Differences in Root System Size. <i>Agronomy</i> , <b>2018</b> , 8, 109	3.6	27
115	Elevated [CO <sub>2</sub> ] mitigates the effect of surface drought by stimulating root growth to access sub-soil water. <i>PLoS ONE</i> , <b>2018</b> , 13, e0198928	3.7	20
114	Sorghum drought and heat stress patterns across the Argentinean temperate central region. <b>2019</b> , 241, 107552		8
113	Plant Traits to Increase Winter Wheat Yield in Semiarid and Subhumid Environments. <b>2019</b> , 111, 1728-1740		14
112	Drought Risk Assessment and Estimation in Vulnerable Eco-Regions of China: Under the Background of Climate Change. <b>2019</b> , 11, 4463		8
111	Effect of nitrogen supply method on root growth and grain yield of maize under alternate partial root-zone irrigation. <b>2019</b> , 9, 8191		5
110	Polyethylene glycol induced drought stress strongly influences seed germination, root morphology and cytoplasm of different kenaf genotypes. <b>2019</b> , 137, 180-186		21
109	Crop Biotechnology for Improving Drought Tolerance: Targets, Approaches, and Outcomes. <b>2019</b> , 1-40		1
108	Increasing co-limitation of water and nitrogen drives genetic yield gain in Australian wheat. <b>2019</b> , 106, 23-29		10
107	Water-Use Efficiency Under Changing Climatic Conditions. <b>2019</b> , 111-180		12
106	Evolution of roots to improve water and nitrogen use efficiency in maize elite inbred lines released during different decades in China. <i>Agricultural Water Management</i> , <b>2019</b> , 216, 44-59	5.9	6
105	Genetic Solutions to Improve Resilience of Canola to Climate Change. <b>2019</b> , 75-131		5
104	A design principle of root length distribution of plants. <b>2019</b> , 16, 20190556		2
103	Nitrogen and potassium fertilization for improved dryland spring wheat grain yield and quality. <b>2019</b> , 52, 10-16		1
102	How root traits would be affected by soybean yield improvement? An examination of historical cultivars grafted with record-yield cultivar scion. <i>Plant and Soil</i> , <b>2019</b> , 439, 19-30	4.2	7

101	Evaluation of AquaCrop model simulations of cotton growth under deficit irrigation with an emphasis on root growth and water extraction patterns. <i>Agricultural Water Management</i> , <b>2019</b> , 213, 419-432	5.9	10
100	Crop root system traits cannot be seen as a silver bullet delivering drought resistance. <i>Plant and Soil</i> , <b>2019</b> , 439, 31-43	4.2	19
99	Basics of Agricultural System Models. <b>2019</b> , 3-43		1
98	Critical factors influencing biotech corn adoption of farmers in the Philippines in relation with the 2015 GMO Supreme Court ban. <b>2020</b> , 74, 10-21		5
97	Modeling winter barley root distribution in flat and raised bed planting systems subject to full, deficit and rainfed irrigation. <b>2020</b> , 16, 100257		1
96	Root Architecture and Functional Traits of Spring Wheat Under Contrasting Water Regimes. <b>2020</b> , 11, 581140		3
95	Mulching improved soil water, root distribution and yield of maize in the Loess Plateau of Northwest China. <i>Agricultural Water Management</i> , <b>2020</b> , 241, 106340	5.9	14
94	Variable responses of maize root architecture in elite cultivars due to soil compaction and moisture. <i>Plant and Soil</i> , <b>2020</b> , 455, 79-91	4.2	8
93	Responses of Plant Reproductive Phenology to Winter-Biased Warming in an Alpine Meadow. <b>2020</b> , 11, 534703		2
92	Large-scale genome-wide association study reveals that drought-induced lodging in grain sorghum is associated with plant height and traits linked to carbon remobilisation. <b>2020</b> , 133, 3201-3215		6
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90	Water modelling approaches and opportunities to simulate spatial water variations at crop field level. <i>Agricultural Water Management</i> , <b>2020</b> , 240, 106254	5.9	16
89	Root traits of dryland winter wheat ( <i>Triticum aestivum</i> L.) from the 1940s to the 2010s in Shaanxi Province, China. <b>2020</b> , 10, 5328		3
88	Topsoil Hardening: Effects on Soybean Root Architecture and Water Extraction Patterns. <i>Journal of Soil Science and Plant Nutrition</i> , <b>2020</b> , 20, 2182-2194	3.2	1
87	Root Response to Drought Stress in Rice (L. <b>2020</b> , 21,		58
86	Dense subsoils limit winter wheat rooting depth and soil water depletion. <b>2020</b> , 112, 81-91		2
85	Assessing genetic variation of maize ( <i>Zea mays</i> ) root DNA density under contrasting water supply. <b>2020</b> , 139, 241-250		
84	A comparison between water uptake and root length density in winter wheat: effects of root density and rhizosphere properties. <i>Plant and Soil</i> , <b>2020</b> , 451, 345-356	4.2	15

83	Wilting index and root morphological characteristics used as drought-tolerance variety selection at the seedling stage in soybean ( <i>Glycine max</i> L.). <b>2020</b> , 92, 29-42		1
82	Using infrared thermometry to improve irrigation scheduling on variable soils. <b>2021</b> , 307, 108033		2
81	Physio-morphological, biochemical, and anatomical traits of drought-tolerant and susceptible sorghum cultivars under pre- and post-anthesis drought. <b>2021</b> , 172, 912-921		4
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77	Deciphering the genetic basis of wheat seminal root anatomy uncovers ancestral axial conductance alleles. <b>2021</b> , 44, 1921-1934		4
76	Assessment of root phenotypes in mungbean mini-core collection (MMC) from the World Vegetable Center (AVRDC) Taiwan. <i>PLoS ONE</i> , <b>2021</b> , 16, e0247810	3-7	5
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72	Genome-Wide Association Study on Root Traits Under Different Growing Environments in Wheat ( <i>Triticum aestivum</i> L.). <i>Frontiers in Genetics</i> , <b>2021</b> , 12, 646712	4-5	1
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70	Study of seed morphology and influence of ageing and storage conditions on germination and seedling vigour of non-Basmati aromatic rice. <i>Journal of Stored Products Research</i> , <b>2021</b> , 93, 101863	2-5	0
69	Mulched drip irrigation increases cotton yield and water use efficiency via improving fine root plasticity. <i>Agricultural Water Management</i> , <b>2021</b> , 255, 106992	5-9	4
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20	Table_1.docx. <b>2020</b> ,		
19	Root and xylem anatomy varies with root length, root order, soil depth, and environment in intermediate wheatgrass ( <i>Kernza</i> ) and alfalfa.. <i>Annals of Botany</i> , <b>2022</b> ,	4.1	0
18	Effects of Nitrogen Application Rates and Irrigation Regimes on Root Growth and Nitrogen-Use Efficiency of Maize under Alternate Partial Root-Zone Irrigation. <i>Journal of Soil Science and Plant Nutrition</i> ,	3.2	0
17	Effect of Long-Term Organic Amendment Application on the Vertical Distribution of Nutrients in a Vertisol. <i>Agronomy</i> , <b>2022</b> , 12, 1162	3.6	0
16	Root efficiency and water use regulation relating to rooting depth of winter wheat. <i>Agricultural Water Management</i> , <b>2022</b> , 269, 107710	5.9	0
15	Are crop deep roots always beneficial for combating drought: A review of root structure and function, regulation and phenotyping. <i>Agricultural Water Management</i> , <b>2022</b> , 271, 107781	5.9	2
14	Alternate wetting-drying enhances soil nitrogen availability by altering organic nitrogen partitioning in rice-microbe system. <i>Geoderma</i> , <b>2022</b> , 424, 115993	6.7	1
13	Row Spacing and the Use of Plant-Available Water in Sugarcane Cultivation in Water-Abundant Louisiana. <i>Agronomy</i> , <b>2022</b> , 12, 1586	3.6	
12	Genetic yield gain between 1942 and 2013 and associated changes in phenology, yield components and root traits of Australian barley. <i>Plant and Soil</i> ,	4.2	0

11	The Higher Water Absorption Capacity of Small Root System Improved the Yield and Water Use Efficiency of Maize. <b>2022</b> , 11, 2300	0
10	Water Acquisition by Roots From the Subsoil: Impact of Physical Constraints on the Dynamics of Water Capture. <b>2022</b> , 323-345	1
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6	Dissecting the below- and aboveground specific responses of two waterlogging tolerant arbor species to nutrient supply under waterlogging conditions.	1
5	Pre-and post-sowing irrigation scheduling impacts on crop phenology and water productivity of cotton ( <i>Gossypium hirsutum</i> L.) in sub-tropical north-western India. <b>2022</b> , 274, 107982	0
4	Root pruning improves maize water-use efficiency by root water absorption. 13,	0
3	Stress-induced deeper rooting introgression enhances wheat yield under terminal drought.	0
2	Deep-water uptake under drought improved due to locally increased root conductivity in maize, but not in faba bean.	0
1	Role of Transpiration in Regulating Leaf Temperature and its Application in Physiological Breeding. <b>2023</b> , 91-119	0