

CITATION REPORT

List of articles citing

Increasing crop productivity when water is scarce from breeding to field management

DOI: 10.1016/j.agwat.2005.07.012

Agricultural Water Management, 2006, 80, 176-196.

Source: <https://exaly.com/paper-pdf/39847896/citation-report.pdf>

Version: 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
335	The role of root architectural traits in adaptation of wheat to water-limited environments. 2006 , 33, 823-837		418
334	The drought environment: physical, biological and agricultural perspectives. 2007 , 58, 113-7		260
333	Preface. <i>Agricultural Water Management</i> , 2006 , 80, 1-3	5.9	6
332	PARTICIPATORY PLANT BREEDING IN WATER-LIMITED ENVIRONMENTS. 2007 , 43, 411-435		84
331	Overproduction of abscisic acid in tomato increases transpiration efficiency and root hydraulic conductivity and influences leaf expansion. 2007 , 143, 1905-17		256
330	A conceptual framework for the improvement of crop water productivity at different spatial scales. 2007 , 93, 43-60		177
329	Impact of subsoil water use on wheat yield. 2007 , 58, 303		272
328	Root Functional Architecture: A Framework for Modeling the Interplay between Roots and Soil. 2007 , 6, 269-281		129
327	Wheat improvement under water deficit conditions in semi arid tropics and subtropics. 2007 , 16, 181-190		
326	Gene-based modelling for rice: an opportunity to enhance the simulation of rice growth and development?. 2007 , 249, 593-605		19
325	Promising the future? Global change projections of species distributions. 2007 , 8, 387-397		332
324	Breeding upland rice for drought resistance. 2008 , 88, 927-939		194
323	Water use efficiency is not constant when crop water supply is adequate or fixed: The role of agronomic management. <i>European Journal of Agronomy</i> , 2008 , 28, 273-281	5	45
322	Methods and technologies to improve efficiency of water use. 2008 , 44,		171
321	The Future of Arid Lands [Revisited]. 2008 ,		8
320	Spectral vegetation indices for benchmarking water productivity of irrigated cotton and sugarbeet crops. <i>Agricultural Water Management</i> , 2008 , 95, 48-58	5.9	96
319	Increasing water productivity in crop production—A synthesis. <i>Agricultural Water Management</i> , 2008 , 95, 1201-1213	5.9	206

318	10th anniversary review: addressing land degradation and climate change in dryland agroecosystems through sustainable land management. 2008 , 10, 595-603	21
317	Water Productivity Mapping (WPM) Using Landsat ETM+ Data for the Irrigated Croplands of the Syrdarya River Basin in Central Asia. 2008 , 8, 8156-8180	42
316	Transpiration and Yield Relationships of Grain Sorghum Grown in a Field Environment. 2009 , 101, 657-662	12
315	Identifying fertiliser management strategies to maximise nitrogen and phosphorus acquisition by wheat in two contrasting soils from Victoria, Australia. 2009 , 47, 74	19
314	Effects of mannitol induced osmotic stress on proline accumulation, pigment degradation, photosynthetic abilities and growth characters in C3 rice and C4 sorghum. 2009 , 3, 266-273	3
313	The effect of climate change on the water and food nexus in China. 2009 , 1, 413-430	25
312	Improving Productivity to Face Water Scarcity in Irrigated Agriculture. 2009 , 122-143	1
311	The large-effect drought-resistance QTL qtl12.1 increases water uptake in upland rice. 2009 , 110, 139-146	116
310	Benchmarking sunflower water productivity in semiarid environments. 2009 , 110, 251-262	54
309	Soil water, soil nitrogen and productivity of lucerne/wheat sequences on deep silt loams in a summer dominant rainfall environment. 2009 , 111, 97-108	37
308	Deep rooting and drought screening of cereal crops: A novel field-based method and its application. 2009 , 112, 165-171	71
307	Effective use of water (EUW) and not water-use efficiency (WUE) is the target of crop yield improvement under drought stress. 2009 , 112, 119-123	717
306	Root size, distribution and soil water depletion as affected by cultivars and environmental factors. 2009 , 114, 75-83	104
305	Limits to maize productivity in Western Corn-Belt: A simulation analysis for fully irrigated and rainfed conditions. 2009 , 149, 1254-1265	180
304	Evaluation of surface water drainage systems for cropping in the Central Highlands of Ethiopia. <i>Agricultural Water Management</i> , 2009 , 96, 1667-1672	5.9 3
303	Starch-to-sugar conversion in wood parenchyma of field-growing <i>Laurus nobilis</i> plants: a component of the signal pathway for embolism repair?. 2009 , 36, 815-825	143
302	The flow of alleles of important photoperiod and vernalisation genes through Australian wheat. 2009 , 60, 646	63
301	Improving Crop Competitiveness with Weeds. 2009 , 449-488	6

300	Summer Drought Survival Strategies and Sustainability of Perennial Temperate Forage Grasses in Mediterranean Areas. 2009 , 49, 2386-2392		58
299	Long-term wheat response to nitrogen in a rainfed Mediterranean environment: Field data and simulation analysis. <i>European Journal of Agronomy</i> , 2010 , 33, 132-138	5	82
298	The distribution and abundance of wheat roots in a dense, structured subsoil--implications for water uptake. 2010 , 33, 133-48		244
297	Comparison of soil water capture rates of irrigated sole versus intercropped Sorghum bicolor and Arachis hypogaea. 2010 , 4,		
296	Variability in Harvest Index of Grain Crops and Potential Significance for Carbon Accounting: Examples from Australian Agriculture. 2010 , 105, 173-219		114
295	Increasing productivity by matching farming system management and genotype in water-limited environments. 2010 , 61, 4129-43		163
294	Closing the gap between actual and potential yield of rainfed wheat. The impacts of environment, management and cultivar. 2010 , 116, 14-22		89
293	Water resources and water use efficiency in the North China Plain: Current status and agronomic management options. <i>Agricultural Water Management</i> , 2010 , 97, 1102-1116	5.9	155
292	Improving Productivity of Crops in Water-Limited Environments. 2010 , 106, 37-75		190
291	Quantifying genetic effects of ground cover on soil water evaporation using digital imaging. 2010 , 37, 703		70
290	Breeding for improved water productivity in temperate cereals: phenotyping, quantitative trait loci, markers and the selection environment. 2010 , 37, 85		251
289	Dual-purpose cereals: can the relative influences of management and environment on crop recovery and grain yield be dissected?. 2011 , 62, 930		71
288	Recovery dynamics of rainfed winter wheat after livestock grazing 1. Growth rates, grain yields, soil water use and water-use efficiency. 2011 , 62, 947		41
287	Advances and prospects: biotechnologically improving crop water use efficiency. 2011 , 31, 281-93		21
286	Accounting for water use: Terminology and implications for saving water and increasing production. <i>Agricultural Water Management</i> , 2011 , 98, 1840-1846	5.9	118
285	Optimization of yield and water-use of different cropping systems for sustainable groundwater use in North China Plain. <i>Agricultural Water Management</i> , 2011 , 98, 808-814	5.9	78
284	The potential contribution of wild barley (<i>Hordeum vulgare</i> ssp. <i>spontaneum</i>) germplasm to drought tolerance of cultivated barley (<i>H. vulgare</i> ssp. <i>vulgare</i>). 2011 , 120, 161-168		43
283	High-yield irrigated maize in the Western U.S. Corn Belt: II. Irrigation management and crop water productivity. 2011 , 120, 133-141		102

282	Innovation and productivity in dryland agriculture: a return-risk analysis for Australia. 2011 , 149, 77-89		23
281	Dual C/N response to water and nitrogen availability and its relationship with yield in field-grown durum wheat. 2011 , 34, 418-33		54
280	Gene discovery in cereals through quantitative trait loci and expression analysis in water-use efficiency measured by carbon isotope discrimination. 2011 , 34, 2009-23		28
279	A strategic and tactical management approach to select optimal N fertilizer rates for wheat in a spatially variable field. <i>European Journal of Agronomy</i> , 2011 , 35, 215-222	5	106
278	Role of early vigor in adaptation of rice to water-saving aerobic culture: Effects of nitrogen utilization and leaf growth. 2011 , 124, 124-131		22
277	Breeding crop plants with deep roots: their role in sustainable carbon, nutrient and water sequestration. 2011 , 108, 407-18		233
276	IMPROVING WHEAT YIELDS THROUGH N FERTILIZATION IN MEDITERRANEAN TUNISIA. 2011 , 47, 459-475		20
275	Drought resistance - is it really a complex trait?. 2011 , 38, 753-757		151
274	Heterotic Response for Grain Yield and Ecophysiological Related Traits to Nitrogen Availability in Maize. 2011 , 51, 1172-1187		18
273	Position Statement on Crop Adaptation to Climate Change. 2011 , 51, 2337-2343		24
272	Plant water status and hydraulic conductance during flowering in the southern California coastal sage shrub <i>Salvia mellifera</i> (Lamiaceae). 2011 , 98, 1286-92		18
271	Effect of Different Management Systems on Soil Water Content in the Black Soil of Northeast China. 2012 , 610-613, 2912-2915		1
270	Large-scale sequestration of atmospheric carbon via plant roots in natural and agricultural ecosystems: why and how. 2012 , 367, 1589-97		165
269	Root development and water-uptake under water deficit stress in drought-adaptive wheat genotypes. 2012 , 40, 44-52		12
268	Growth, recovery, and yield of dual-purpose canola (<i>Brassica napus</i>) in the medium-rainfall zone of south-eastern Australia. 2012 , 63, 635		39
267	Evaluation of a reduced-tillering (<i>tin</i>) gene in wheat lines grown across different production environments. 2012 , 63, 128		36
266	Incorporation of Soil Bulk Density in Simulating Root Distribution of Winter Wheat and Maize in Two Contrasting Soils. 2012 , 76, 638-647		24
265	Adapting wheat sowing dates to projected climate change in the Australian subtropics: analysis of crop water use and yield. 2012 , 63, 974		16

264	Improving crop production in the arid Mediterranean climate. 2012 , 128, 34-47		109
263	Impact of Water Regime and Growing Conditions on Soil-Plant Interactions: From Single Plant to Field Scale. 2012 , 11, v2j2012.0006		9
262	Traits and selection strategies to improve root systems and water uptake in water-limited wheat crops. 2012 , 63, 3485-98		471
261	Effective use of water by wheat varieties with different root system sizes in rain-fed experiments in Central Europe. <i>Agricultural Water Management</i> , 2012 , 104, 203-209	5.9	21
260	Water and land productivities of wheat and food legumes with deficit supplemental irrigation in a Mediterranean environment. <i>Agricultural Water Management</i> , 2012 , 107, 94-103	5.9	34
259	Improving Water Use Efficiency for Sustainable Agriculture. 2012 , 167-211		9
258	Genetic Mechanisms of Drought Stress Tolerance, Implications of Transgenic Crops for Agriculture. 2012 , 213-235		5
257	Root traits and \bar{L} and \bar{D} of durum wheat under different water regimes. 2012 , 39, 379-393		30
256	Brassica Crop Species: Improving Water Use Efficiency: Challenges and Opportunities. 2012 , 1301-1314		1
255	Assessing the importance of subsoil constraints to yield of wheat and its implications for yield improvement. 2012 , 63, 1043		53
254	Encyclopedia of Sustainability Science and Technology. 2012 , 2638-2661		
253	Plasticidad fenotípica en dos poblaciones antiguas de <i>Colobanthus quitensis</i> (Caryophyllaceae) bajo un escenario simulado de cambio global. 2012 , 69, 152-160		15
252	Sustainable Management of Soil Potassium [A Crop Rotation Oriented Concept. 2012 ,		
251	Analysis of rainfall distribution on spatial and temporal patterns of wheat yield in Mediterranean environment. <i>European Journal of Agronomy</i> , 2012 , 41, 52-65	5	53
250	Sustainable Food Production. 2013 , 615-637		
249	Review: Annual crop adaptation to abiotic stress on the Canadian prairies: Six case studies. 2013 , 93, 375-385		29
248	Optimizing the yield of winter wheat by regulating water consumption during vegetative and reproductive stages under limited water supply. 2013 , 31, 1103-1112		73
247	Prognosis for genetic improvement of yield potential and water-limited yield of major grain crops. 2013 , 143, 18-33		171

246	Estimating the spatial and temporal impacts of climate change on rainfall reliability: An example in a Mediterranean agricultural region. 2013 , 45, 98-108	5
245	Yield gap analysis with local to global relevanceA review. 2013 , 143, 4-17	857
244	Nitrogen Use as a Component of Sustainable Crop Systems. 2013 , 63-76	3
243	Water extraction under terminal drought explains the genotypic differences in yield, not the anti-oxidant changes in leaves of pearl millet (<i>Pennisetum glaucum</i>). 2012 , 40, 44-53	18
242	Genetic engineering to improve plant performance under drought: physiological evaluation of achievements, limitations, and possibilities. 2013 , 64, 83-108	205
241	Improving Crop Production in the Arid Mediterranean Climate. 2013 , 187-209	1
240	Agronomic Principles of Water- and Nutrient-Use Efficiency. 2013 , 211-233	1
239	Response of taro (<i>Colocasia esculenta</i> L. Schott) landraces to varying water regimes under a rainshelter. <i>Agricultural Water Management</i> , 2013 , 121, 102-112	5.9 31
238	The effects of potassium fertilization on water-use efficiency in crop plants. 2013 , 176, 355-374	65
237	CropsWater use efficiencies in temperate climate: Comparison of stand, ecosystem and agronomical approaches. 2013 , 168, 69-81	44
236	Soil Testing as a Tool for On-Farm Fertility Management: Experience from the Semi-arid Zone of India. 2013 , 44, 1011-1032	23
235	Comparing rooting characteristics and soil water withdrawal patterns of wheat with alternative oilseed and pulse crops grown in the semiarid Canadian prairie. 2013 , 93, 147-160	45
234	Winter wheat grain yield and its components in the North China Plain: Irrigation management, cultivation, and climate. 2013 , 73, 233-242	21
233	Improvements in crop water productivity increase water sustainability and food securityA global analysis. 2013 , 8, 024030	141
232	Assessment of transboundary aquifers of the worldVulnerability arising from human water use. 2013 , 8, 024003	40
231	Conservation tillage and water availability for wheat in the dryland of central Chile. 2013 , 0-0	7
230	Crop and Tillage Effects on Water Productivity of Dryland Agriculture in Argentina. 2013 , 3, 1-11	11
229	Testing the Temporal Ability of Landsat Imagery and Precision Agriculture Technology to Provide High Resolution Historical Estimates of Wheat Yield at the Farm Scale. 2013 , 5, 1549-1567	18

228	Breeding for Yield Potential has Increased Deep Soil Water Extraction Capacity in Irrigated Wheat. 2013 , 53, 2090-2104		39
227	Do Estimates of Water Productivity Enhance Understanding of Farm-Level Water Management?. <i>Water (Switzerland)</i> , 2014 , 6, 778-795	3	25
226	Maize Root Architecture and Water Stress Tolerance: An Approximation from Crop Models. 2014 , 106, 2287-2295		6
225	Water footprint benchmarks for crop production: A first global assessment. 2014 , 46, 214-223		213
224	Investing in small, private irrigation to increase production and enhance livelihoods. <i>Agricultural Water Management</i> , 2014 , 131, 163-166	5.9	18
223	Designing resilient and sustainable grasslands for a drier future: Adaptive strategies, functional traits and biotic interactions. <i>European Journal of Agronomy</i> , 2014 , 52, 81-89	5	98
222	Ppd1, Vrn1, ALMT1 and Rht genes and their effects on grain yield in lower rainfall environments in southern Australia. 2014 , 65, 159		21
221	Improving Water Productivity of Wheat-Based Cropping Systems in South Asia for Sustained Productivity. 2014 , 157-258		59
220	Genomics for drought resistance - getting down to earth. 2014 , 41, 1191-1198		59
219	Africa. 1199-1266		38
218	Novel Cropping Technologies and Management Applied to Energy Crops. 2014 , 19-66		
217	Blue Water Demand for Sustainable Intensification. 2015 , 107, 1539-1543		5
216	Exploiting Cropping Management to Improve Agricultural Water Use Efficiency in the Drylands of Eastern Uganda. 2015 , 4, 57		1
215	Maximum Attainable Wheat Yield and Resource-Use Efficiency in the Southern Great Plains. 2015 , 55, 2863-2876		50
214	Recharge and groundwater use in the North China Plain for six irrigated crops for an eleven year period. 2015 , 10, e0115269		47
213	Dissection of drought response of modern and underutilized wheat varieties according to Passioura's yield-water framework. <i>Frontiers in Plant Science</i> , 2015 , 6, 570	6.2	18
212	Genetic architecture, heterosis and inbreeding depression for yield and yield associated physiological traits in rice (<i>Oryza sativa</i> L.) under drought condition. 2015 , 13, 50-62		1
211	Meeting Global Food Needs: Realizing the Potential via Genetics [Environment [Management Interactions. 2015 , 107, 1215-1226		105

210	Competition among warm season C4-cereals influence water use efficiency and competition ratios. 2015 , 1, 1011466		3
209	Planning for food security in a changing climate. 2015 , 66, 3435-50		42
208	Management of crop water under drought: a review. 2015 , 35, 401-442		245
207	Incorporating root distribution factor to evaluate soil water status for winter wheat. <i>Agricultural Water Management</i> , 2015 , 153, 32-41	5.9	21
206	Can diversity in root architecture explain plant water use efficiency? A modeling study. 2015 , 312, 200-210		56
205	Stomatal Conductance Is Essential for Higher Yield Potential of C3 Crops. 2015 , 34, 429-453		84
204	Durum Wheat Genotypic Variation of Yield and Nitrogen use Efficiency and Its Components Under Different Water and Nitrogen Regimes in the Mediterranean Region. 2015 , 38, 2259-2278		3
203	Performance of improved practices in farmers' fields under rainfed and supplemental irrigation systems in a semi-arid area of Pakistan. <i>Agricultural Water Management</i> , 2015 , 155, 1-10	5.9	3
202	Yield gap analysis in major wheat growing areas of Khorasan province, Iran, through crop modelling. 2015 , 184, 28-38		17
201	Effect of nitrogen fertilization under plastic mulched and non-plastic mulched conditions on water use by maize plants in dryland areas of China. <i>Agricultural Water Management</i> , 2015 , 162, 15-32	5.9	29
200	Application of mulch under reduced water input to increase yield and water productivity of sweet corn in a lowland rice system. 2015 , 171, 120-129		20
199	Integrating irrigation management for improved grain yield of winter wheat and rhizosphere AM fungal diversity in a semi-arid cropping system. 2015 , 132, 167-173		9
198	The influence of dairy management strategies on water productivity of milk production. <i>Agricultural Water Management</i> , 2015 , 147, 175-186	5.9	15
197	Effects of grazing on crop crown temperature: implications for phenology. 2015 , 66, 235		2
196	Improving Water Sustainability and Food Security through Increased Crop Water Productivity in Malawi. <i>Water (Switzerland)</i> , 2016 , 8, 411	3	19
195	Sustaining Chili Pepper Production in Afghanistan through Better Irrigation Practices and Management. 2016 , 6, 62		1
194	Molecular and Morpho-Agronomical Characterization of Root Architecture at Seedling and Reproductive Stages for Drought Tolerance in Wheat. 2016 , 11, e0156528		23
193	Effects of stubble length of rice in mitigating soil moisture stress and on yield of lentil (<i>Lens culinaris</i> Medik) in rice-lentil relay crop. <i>Agricultural Water Management</i> , 2016 , 173, 91-102	5.9	24

192	Understanding deep roots and their functions in ecosystems: an advocacy for more unconventional research. 2016 , 118, 621-635	130
191	Waterhemp (<i>Amaranthus tuberculatus</i>) control under drought stress with 2,4-dichlorophenoxyacetic acid and glyphosate. 2016 , 16, 34-41	11
190	Irrigation water productivity is more influenced by agronomic practice factors than by climatic factors in Hexi Corridor, Northwest China. 2016 , 6, 37971	27
189	Comparison of Desert-Adapted <i>Helianthus niveus</i> (Benth.) Brandegees ssp. <i>tephrodes</i> (A. Gray) Heiser to Cultivated <i>H. annuus</i> L. for Putative Drought Avoidance Traits at Two Ontogenetic Stages. 2016 , 39, 1-19	5
188	Plant drought survival under climate change and strategies to improve perennial grasses. A review. 2016 , 36, 1	43
187	Stay-green traits to improve wheat adaptation in well-watered and water-limited environments. 2016 , 67, 5159-72	95
186	Limited-irrigation improves water use efficiency and soil reservoir capacity through regulating root and canopy growth of winter wheat. 2016 , 196, 268-275	87
185	Influence of spatio temporal scales in crop water footprinting and water use management: Evidences from sugar beet production in Northern Spain. <i>Journal of Cleaner Production</i> , 2016 , 139, 1485-1495	16
184	Uncertainty of wheat water use: Simulated patterns and sensitivity to temperature and CO ₂ . 2016 , 198, 80-92	36
183	Root system-based limits to agricultural productivity and efficiency: the farming systems context. 2016 , 118, 573-592	49
182	QTL Mapping for Grain Yield, Flowering Time, and Stay-Green Traits in Sorghum with Genotyping-by-Sequencing Markers. 2016 , 56, 1429-1442	28
181	Rhizosheaths on wheat grown in acid soils: phosphorus acquisition efficiency and genetic control. 2016 , 67, 3709-18	31
180	Complex water management in modern agriculture: Trends in the water-energy-food nexus over the High Plains Aquifer. 2016 , 566-567, 988-1001	68
179	Water use efficiency and crop water balance of rainfed wheat in a semi-arid environment: sensitivity of future changes to projected climate changes and soil type. 2016 , 123, 565-579	34
178	Water use and productivity of a sorghum ⁵ cowpea ⁵ bottle gourd intercrop system. <i>Agricultural Water Management</i> , 2016 , 165, 82-96	5.9 36
177	Seed priming improves stand establishment and productivity of no till wheat grown after direct seeded aerobic and transplanted flooded rice. <i>European Journal of Agronomy</i> , 2016 , 76, 130-137	5 32
176	Hydrological, engineering, agronomical, breeding and physiological pathways for the effective and efficient use of water in agriculture. <i>Agricultural Water Management</i> , 2016 , 164, 190-196	5.9 14
175	Addressing the yield gap in rainfed crops: a review. 2016 , 36, 1	51

174	Constraints on water use efficiency of drought tolerant maize grown in a semi-arid environment. 2016 , 186, 66-77		21
173	Soil Management to Optimize Water in Rice-Wheat Cropping. 2017 , 253-279		
172	Meteorological limits to winter wheat productivity in the U.S. southern Great Plains. 2017 , 203, 212-226		51
171	Do no-till and pig slurry application improve barley yield and water and nitrogen use efficiencies in rainfed Mediterranean conditions?. 2017 , 203, 74-85		16
170	Association between temperature and precipitation with dryland wheat yield in northwest of Iran. 2017 , 141, 703-717		12
169	Comparison of conventional and conservation rice-wheat systems in Punjab, Pakistan. 2017 , 169, 35-43		34
168	Soil. 2017 , 1-46		60
167	Root traits confer grain yield advantages under terminal drought in chickpea (L.). 2017 , 201, 146-161		45
166	Crop water use under Swiss pedoclimatic conditions [Evaluation of lysimeter data covering a seven-year period. 2017 , 211, 48-65		14
165	Water limits to closing yield gaps. 2017 , 99, 67-75		40
164	Cultivated land productivity potential improvement in land consolidation schemes in Shenyang, China: assessment and policy implications. 2017 , 68, 80-88		67
163	Towards quantitative root hydraulic phenotyping: novel mathematical functions to calculate plant-scale hydraulic parameters from root system functional and structural traits. 2017 , 75, 1133-1170		26
162	Spatio-temporal distribution of irrigation water productivity and its driving factors for cereal crops in Hexi Corridor, Northwest China. <i>Agricultural Water Management</i> , 2017 , 179, 55-63	5.9	29
161	Impacts and Limits of Irrigation Water Management on Wheat Yield and Quality. 2017 , 57, 3239-3251		15
160	Traits Explaining Durum Wheat (L. spp. Durum) Yield in Dry Chilean Mediterranean Environments. <i>Frontiers in Plant Science</i> , 2017 , 8, 1781	6.2	12
159	Modeling of Mixed Crop Field Water Demand and a Smart Irrigation System. <i>Water (Switzerland)</i> , 2017 , 9, 885	3	6
158	Drought Response in Wheat: Key Genes and Regulatory Mechanisms Controlling Root System Architecture and Transpiration Efficiency. 2017 , 5, 106		90
157	Étude de la diversité génétique de quelques variétés de blé tendre (<i>Triticum aestivum</i> L.) et de blé dur (<i>Triticum durum</i> Desf.) selon la base des caractères de l'U.P.O.V. 2017 , 113, 11246		0

156	Dehydration survival of crop plants and its measurement. 2018 , 69, 975-981		30
155	Field measurements of bare soil evaporation and crop transpiration, and transpiration efficiency, for rainfed grain crops in Australia A review. <i>Agricultural Water Management</i> , 2018 , 205, 72-80	5.9	18
154	Early assessment of crop yield from remotely sensed water stress and solar radiation data. 2018 , 145, 297-308		43
153	A transnational and holistic breeding approach is needed for sustainable wheat production in the Baltic Sea region. 2018 , 164, 442-451		18
152	Simulating field-scale variability and precision management with a 3D hydrologic cropping systems model. 2018 , 19, 293-313		5
151	Spatiotemporal Attributes and Crop Loss Associated with Tan Spot Epidemics in Baby Lima Bean in New York. 2018 , 102, 405-412		2
150	Modelling forage yield and water productivity of continuous crop sequences in the Argentinian Pampas. <i>European Journal of Agronomy</i> , 2018 , 92, 84-96	5	16
149	Water Footprint for Pulse, Cereal, and Oilseed Crops in Saskatchewan, Canada. <i>Water (Switzerland)</i> , 2018 , 10, 1609	3	9
148	Toward the Implementation of Climate-Resilient Tea Systems: Agroecological, Physiological, and Molecular Innovations. 2018 , 333-355		1
147	Planting Techniques and Irrigation Influenced Crop Growth, Light Interception and YieldEvapotranspiration Relationship of Potato. 2018 , 12, 285-296		1
146	The Last Mile: Using Local Knowledge to Identify Barriers to Sustainable Grain Legume Production. 2018 , 6,		2
145	Long-Term Tillage on Yield and Water Use of Grain Sorghum and Winter Wheat. 2018 , 110, 269-280		18
144	Quantification of plant water uptake by water stable isotopes in rice paddy systems. 2018 , 429, 281-302		17
143	Response of Lentil (<i>Lens culinaris</i>) to Post-rice Residual Soil Moisture Under Contrasting Tillage Practices. 2018 , 7, 463-479		9
142	Water deficit effects on morpho-physiologicals parameters in durum wheat. 2018 , 8, 1166		1
141	Plant Life in Extreme Environments: How Do You Improve Drought Tolerance?. <i>Frontiers in Plant Science</i> , 2018 , 9, 543	6.2	38
140	Tillage effects on the soil water balance and the use of water by oats and wheat in a Mediterranean climate. 2018 , 184, 68-77		8
139	Enhancing the Proficiency of Water Use in Wheat Through Nitrogen Forms, Irrigation Intervals and Soil Conditioners. 2018 , 67, 516-526		

138	Quantifying the energy, water and food nexus: A review of the latest developments based on life-cycle assessment. <i>Journal of Cleaner Production</i> , 2018 , 193, 300-314	10.3	94
137	Modelling impacts of precision irrigation on crop yield and in-field water management. 2018 , 19, 497-512		32
136	Water productivity of rainfed maize and wheat: A local to global perspective. 2018 , 259, 364-373		48
135	What evidence exists on the effectiveness of the techniques and management approaches used to improve the productivity of field grown tomatoes under conditions of water-, nitrogen- and/or phosphorus-deficit? A systematic map protocol. 2019 , 8,		3
134	Plant Traits to Increase Winter Wheat Yield in Semiarid and Subhumid Environments. 2019 , 111, 1728-1740		14
133	Toward a New Use for Carbon Isotope Discrimination in Wheat Breeding. 2019 , 9, 385		2
132	Rainfall and temperature impacts on barley (<i>Hordeum vulgare</i> L.) yield and malting quality in Scotland. 2019 , 241, 107559		28
131	Introgression of Root and Water Use Efficiency Traits Enhances Water Productivity: An Evidence for Physiological Breeding in Rice (<i>Oryza sativa</i> L.). 2019 , 12, 14		15
130	Soil Water and Water Use in Long-Term Dryland Crop Rotations. 2019 , 111, 2590-2599		10
129	Grain number determination in durum wheat as affected by drought stress: An analysis at spike and spikelet level. 2019 , 174, 190-208		9
128	Grain yield responsiveness to water supply in near-isogenic reduced-tillering wheat lines [An engineered crop trait near its upper limit. <i>European Journal of Agronomy</i> , 2019 , 102, 33-38	5	10
127	Crop rotation options for dryland agriculture: An assessment of grain yield response in cool-season grain legumes and canola to variation in rainfall totals. 2019 , 275, 277-282		6
126	Improving Water Use Efficiency of Spring Maize by Adopting Limited Supplemental Irrigation Following Sufficient Pre-Sowing Irrigation in Northwest China. <i>Water (Switzerland)</i> , 2019 , 11, 802	3	2
125	Yield determination of maize hybrids under limited irrigation. 2019 , 33, 410-427		5
124	Water Use Efficiency as a Constraint and Target for Improving the Resilience and Productivity of C and C Crops. 2019 , 70, 781-808		84
123	Modern biotechnology and sustainable intensification: chances and limitations. 2019 , 159-179		
122	The impact of climate change on barley yield in the Mediterranean basin. <i>European Journal of Agronomy</i> , 2019 , 106, 1-11	5	51
121	Crop Responses to Available Soil Water. 2019 , 131-157		

120	Evaluation and Proposals for Improving Irrigation Performance Around Small Reservoirs in Burkina Faso. 2019 , 145, 05019004		1
119	Water-Use Efficiency Under Changing Climatic Conditions. 2019 , 111-180		12
118	Geographic Object-Based Analysis of Airborne Multispectral Images for Health Assessment of L. Crops. 2019 , 19,		2
117	Exploring soybean management options for environments with contrasting water availability. 2019 , 205, 274-282		10
116	The Effects of Mulch and Nitrogen Fertilizer on the Soil Environment of Crop Plants. 2019 , 121-173		100
115	Effects of varied water regimes on root development and its relations with soil water under wheat/maize intercropping system. 2019 , 439, 113-130		17
114	Soil water extraction and use by winter wheat cultivars under limited irrigation in a semi-arid environment. 2020 , 174, 104046		7
113	Nationwide crop yield estimation based on photosynthesis and meteorological stress indices. 2020 , 284, 107872		10
112	Over-accumulation of abscisic acid in transgenic tomato plants increases the risk of hydraulic failure. 2020 , 43, 548-562		11
111	Assessment of climate change impact on the water footprint in rice production: Historical simulation and future projections at two representative rice cropping sites of China. 2020 , 709, 136190		22
110	A single tillage in a long-term no-till system on dryland crop performance. 2020 , 112, 3174-3187		2
109	Phenotypic plasticity for biomass partitioning in maize: genotype effects across a range of environments. 2020 , 256, 107914		3
108	Spatial Variability of Yield and Nitrogen Indicators in a Crop Rotation Approach. 2020 , 10, 1959		3
107	No-tillage and subsoiling increased maize yields and soil water storage under varied rainfall distribution: A 9-year site-specific study in a semi-arid environment. 2020 , 255, 107867		17
106	Benchmarking impact of nitrogen inputs on grain yield and environmental performance of producer fields in the western US Corn Belt. 2020 , 294, 106865		15
105	Variability of root traits in sesame genotypes under different irrigation regimes. 2020 , 13, 100190		1
104	An Interdisciplinary Approach to Study the Performance of Second-generation Genetically Modified Crops in Field Trials: A Case Study With Soybean and Wheat Carrying the Sunflower HaHB4 Transcription Factor. <i>Frontiers in Plant Science</i> , 2020 , 11, 178	6.2	13
103	Water productivity benchmarks: The case of maize and soybean in Nebraska. <i>Agricultural Water Management</i> , 2020 , 234, 106122	5.9	17

102	Image-Based Phenotyping of Flowering Intensity in Cool-Season Crops. 2020 , 20,			13
101	Managing Crop Diseases Under Water Scarcity. 2020 , 58, 387-406			3
100	Factors related water and dry matter during pre- and post- heading in four millet species under severe water deficit. 2020 , 23, 28-38			4
99	Contribution of Advanced Regeneration of <i>Pinus radiata</i> D. Don. to Transpiration by a Fragment of Native Forest in Central Chile Is out of Proportion with the Contribution to Sapwood Area. 2020 , 11, 187			1
98	Genotypic variations in leaf and whole-plant water use efficiencies are closely related in bread wheat genotypes under well-watered and water-limited conditions during grain filling. 2020 , 10, 460			10
97	A global perspective on sustainable intensification research. 2020 , 3, 262-268			114
96	Seed oil content and phenology of <i>Physaria</i> species (Brassicaceae) differing in their life-cycle. 2021 , 159, 113083			
95	Response of red clover to deficit irrigation: dry matter yield, populations, and irrigation water use efficiency in southern Chile. 2021 , 39, 173-189			1
94	Yield-water relationships of lentil grown under different rice establishments in Lower Gangetic Plain of India. <i>Agricultural Water Management</i> , 2021 , 246, 106675	5.9		1
93	Hydrogen Peroxide Supplementation in Irrigation Water Alleviates Drought Stress and Boosts Growth and Productivity of Potato Plants. 2021 , 13, 899			9
92	Exploring the Impact of Weather Variability on Phenology, Length of Growing Period, and Yield of Contrast Dryland Wheat Cultivars. 2021 , 10, 556			3
91	Oat. 2021 , 222-248			1
90	Lupin. 2021 , 430-450			
89	Identification of salt tolerant genotypes in wheat using stress tolerance indices.			0
88	Nitrogen Gap Amelioration Is a Core for Sustainable Intensification of Agriculture A Concept. 2021 , 11, 419			5
87	Wheat cultivars with small root length density in the topsoil increased post-anthesis water use and grain yield in the semi-arid region on the Loess Plateau. <i>European Journal of Agronomy</i> , 2021 , 124, 126243	5		6
86	Determining optimal nitrogen input rate on the base of fallow season precipitation to achieve higher crop water productivity and yield. <i>Agricultural Water Management</i> , 2021 , 246, 106689	5.9		5
85	Growth and grain yield of eight maize hybrids are aligned with water transport, stomatal conductance, and photosynthesis in a semi-arid irrigated system. 2021 , 172, 1941-1949			3

84	Impacts of vegetative and reproductive plasticity associated with tillering in maize crops in low-yielding environments: A physiological framework. 2021 , 265, 108107	2
83	Transcriptome Analysis of Tolerant and Susceptible Maize Genotypes Reveals Novel Insights about the Molecular Mechanisms Underlying Drought Responses in Leaves. 2021 , 22,	8
82	CubeSats deliver new insights into agricultural water use at daily and 3 m resolutions. 2021 , 11, 12131	6
81	Phenotypic plasticity in relation to inter-cultivar variation of garlic (<i>Allium sativum</i> L.) functional performance and yield-stability in response to water availability. 2021 , 285, 110128	3
80	Identifying Within-Field Spatial and Temporal Crop Water Stress to Conserve Irrigation Resources with Variable-Rate Irrigation. 2021 , 11, 1377	1
79	Cavitation resistance of peduncle, petiole and stem is correlated with bordered pit dimensions in. 2021 , 43, 324-330	1
78	Variation in traits contributing to improved use of nitrogen in wheat: Implications for genotype by environment interaction. 2021 , 270, 108211	2
77	Can We Harness "Enviromics" to Accelerate Crop Improvement by Integrating Breeding and Agronomy?. <i>Frontiers in Plant Science</i> , 2021 , 12, 735143	6.2 3
76	Dry Matter Production, Partitioning, and Seed Yield Under Soil Water Deficit: A Review. 2021 , 585-702	
75	Wheat. 2021 , 98-163	2
74	Maize. 2021 , 2-43	1
73	Requirements for Success in Marker-Assisted Breeding for Drought-Prone Environments. 2007 , 479-500	5
72	Regulation of root growth responses to water deficit. 2007 , 33-53	21
71	Water Availability and Use in Rainfed Farming Systems. 2011 , 101-132	2
70	Dryland Agriculture in Australia: Experiences and Innovations. 2016 , 299-319	7
69	Adapting Irrigated Agriculture to Drought in the San Joaquin Valley of California. 2013 , 25-39	5
68	Variation in specific root length among 23 wheat genotypes affects leaf $\delta^{13}C$ and yield. 2017 , 246, 21-29	14
67	Seasonal variation in the value of subsoil water to wheat: simulation studies in southern New South Wales. 2007 , 58, 1115	57

66	Harnessing benefits from improved livestock water productivity in crop-livestock systems of sub-Saharan Africa: synthesis. 2009 , 31, 169	18
65	Detection of canola flowering using proximal and aerial remote sensing techniques. 2018 ,	1
64	Improved drought tolerance in wheat is required to unlock the production potential of the Brazilian Cerrado. 2019 , 19, 217-225	7
63	Current Water Deficit Stress Simulations in Selected Agricultural System Models. 1-38	9
62	Morphological and Physiological Traits of Assistance in the Selection of High Yielding Varieties of Durum Wheat (&i>Triticum turgidum&i>; L. spp. Durum) for the Rainfed Mediterranean Environments of Central Chile. 2012 , 03, 1809-1819	4
61	A Sustainable Irrigation System for Small Landholdings of Rainfed Punjab, Pakistan. 2021 , 13, 11178	3
60	Synergism Among Crops to Improve Dryland Crop Production. 2010 , 239-251	
59	Phenotypic Characterization of Local Maize Landraces for Drought Tolerance in Kenya. 2011 , 741-746	
58	Application of new science tools in integrated watershed management for enhancing impacts. 2011 , 183-228	
57	Evaluation of Bread Wheat Genotypes under Normal and Post-anthesis Drought Stress Conditions for Agronomic Traits. 2016 , 8, 16-29	6
56	 2017 , 86	
55	Evaluation of Salinity and Drought Stresses Tolerance in Wheat Genotypes using Tolerance Indices. 2017 , 9, 27-34	1
54	Encyclopedia of Sustainability Science and Technology. 2018 , 1-27	
53	Yield characterization of Mediterranean barley under drought stress condition. 2019 , 4, 518-533	2
52	Ecophysiology and Responses of Plants Under Drought. 2020 , 231-268	1
51	Water Resource and Use Efficiency Under Changing Climate. 2020 , 519-576	1
50	Magnetization and oxidation of irrigation water to improve winter wheat (<i>Triticum aestivum</i> L.) production and water-use efficiency. <i>Agricultural Water Management</i> , 2022 , 259, 107254	5.9 3
49	Terminal regions of chromosome arms 6AL and 6BL carry QTL affecting seminal root angle in wheat (<i>Triticum aestivum</i> L.). 2020 , 14, 23-31	

48	Improved agronomy and management of crop plants for industrial end uses. 2007 , 83-127		
47	Response of Irrigated Tomato (<i>Solanum Lycopersicum</i> Mill) to Mulch Application Rates.		
46	Geomorphology as a tool to digitize homogeneous management zones based on soil properties in the semiarid central Argentinean Pampas. 2022 , 28, e00458		0
45	Genotypic variation of conservative and profligate water use in the vegetative and reproductive stages of canola (<i>Brassica napus</i> L.).. 2022 ,		0
44	Quantifying the hydrological impact of soil mulching across rainfall regimes and mulching layer thickness. 2022 , 607, 127523		0
43	Enhancing crop diversity for food security in the face of climate uncertainty. 2021 ,		9
42	Effect of Low Temperature on Dry Matter, Partitioning, and Seed Yield: A Review. 2022 , 629-734		
41	Applying Biostimulants to Combat Water Deficit in Crop Plants: Research and Debate. 2022 , 12, 571		1
40	Explaining preemptive acclimation by linking information to plant phenotype.. 2021 ,		1
39	Table_1.docx. 2018 ,		
38	DataSheet_1.docx. 2020 ,		
37	Table_1.docx. 2020 ,		
36	Induced Genetic Variations in Stomatal Density and Size of Rice Strongly Affects Water Use Efficiency and Responses to Drought Stresses. <i>Frontiers in Plant Science</i> , 2022 , 13,	6.2	1
35	Drought. 2022 , 417-432		1
34	Subsoil water use to attain stable high yields of winter wheat in drylands Loess Plateau of China. <i>European Journal of Agronomy</i> , 2022 , 139, 126558	5	0
33	Processing tomato production is expected to decrease by 2050 due to the projected increase in temperature. <i>Nature Food</i> , 2022 , 3, 437-444	14.4	2
32	How Could the Use of Crop Wild Relatives in Breeding Increase the Adaptation of Crops to Marginal Environments?. <i>Frontiers in Plant Science</i> , 13,	6.2	3
31	Water footprint assessment of surface and subsurface drip fertigated cotton-wheat cropping system [A case study under semi-arid environments of Indian Punjab. <i>Journal of Cleaner Production</i> , 2022 , 365, 132735	10.3	0

30	The changing role of perennial ryegrass in dairy pastures in northern Victoria, Australia. <i>Grass and Forage Science</i> , 2022 , 77, 131-140	2.3	0
29	Socio-Economic Factors and Water Footprint in Smallholder Irrigation Schemes in Zimbabwe. <i>Water (Switzerland)</i> , 2022 , 14, 2101	3	1
28	Fertilizers and Fertilization Strategies Mitigating Soil Factors Constraining Efficiency of Nitrogen in Plant Production. <i>Plants</i> , 2022 , 11, 1855	4.5	2
27	Closing the irrigation water productivity gap to alleviate water shortage in an endorheic basin. 2022 , 853, 158449		0
26	Water Acquisition by Roots From the Subsoil: Impact of Physical Constraints on the Dynamics of Water Capture. 2022 , 323-345		1
25	Connecting the Soils with a Potential Viticultural Terroir Zone. 1-14		0
24	Breeding Long Shelf-Life (LSL) Tomato Landraces to Non-Trellised Culture and Water Deficit Irrigation: The Effect on Yield and Postharvest Storage. 2022 , 12, 2312		0
23	Soil microbial activity as influenced by crusted runoff strip length and mulch cover under in-field rainwater harvesting (IRWH). 2022 , 103258		1
22	A model predictive control approach to a water pumping system in an Australian cotton farm microgrid. 2022 , 3, 100026		0
21	Dissection of Physiological and Biochemical Bases of Drought Tolerance in Soybean (<i>Glycine max</i>) Using Recent Phenomics Approach. 2022 , 47-72		0
20	Soil Fertility Clock Crop Rotation as a Paradigm in Nitrogen Fertilizer Productivity Control. 2022 , 11, 2841		1
19	Development of irrigation schedule and management model for sustaining optimal crop production under agricultural drought.		0
18	Response of irrigated tomato (<i>Solanum lycopersicum</i> Mill) to mulch application rates. 2022 , 8, e11270		0
17	Estimating soil water evaporation as influenced by dry-and green-mulch cover beneath maize canopy. 2022 , 128, 103270		0
16	Estimation of Actual Evapotranspiration and Crop Coefficient of Transplanted Puddled Rice Using a Modified Non-Weighing Paddy Lysimeter. 2022 , 12, 2850		0
15	Breeding crops for drought-affected environments and improved climate resilience.		0
14	Mulching and Micronutrient Synergisms for Sustainable Crop Production. 2022 , 175-198		0
13	Understanding drought as a physical phenomenon experienced by farmers: a necessity for adaptation management and sustainable rural development. The case of the Central Beqaa in Lebanon. 2021 , 45-63		0

- 12 Wheat Stubble Height Effects on Subsequent Corn and Grain Sorghum Crops. ○
- 11 Identification of drought tolerant entries based on stress tolerant indices and physiological traits in RIL population of cotton (*Gossypium hirsutum*). **2022**, 1, 100014 ○
- 10 Evaluation of Water Productivity in the Main Areas of Potato Cultivation in Iran. ○
- 9 Differences in Root Morphologies of Contrasting Wheat (*Triticum aestivum*) Genotypes Are Robust of a Drought Treatment. **2023**, 12, 275 ○
- 8 Improving Quantitative and Qualitative Characteristics of Wheat (L.) through Nitrogen Application under Semiarid Conditions. **2023**, 92, 1001-1017 1
- 7 An agronomic study of legacy effects from annual legume pastures in acid soils. ○
- 6 Plantation water productivity (PWPWOOD) and not water-use efficiency (WUE) as the measure of commercial plantation yield improvement: a review. 1-10 ○
- 5 Integrated fish farming and its influence on farm livelihoods in Manipur, India. ○
- 4 Assessment of Irrigation Efficiency by Coupling Remote Sensing and Ground-Based Data: Case Study of Sprinkler Irrigation of Alfalfa in the Saratovskoye Zavolgie Region of Russia. **2023**, 23, 2601 ○
- 3 Evaluation of irrigation experiments with GGE biplot method and economic analysis of drip irrigation system: a case study of peanut production. ○
- 2 Mechanism, risk, and solution of cultivated land reversion to mountains and abandonment in China. 11, ○
- 1 High-Throughput Phenomics of Crops for Water and Nitrogen Stress. **2023**, 291-310 ○