Review of measured crop water productivity values for irrigated wheat, rice, cotton and maize

DOI: 10.1016/j.agwat.2004.04.007
Agricultural Water Management, 2004, 69, 115-133.

#	Paper	IF	Citations
595	Assessment of water productivity trends for parastatal agricultural operations□ase of Middle Sabi Estate, Zimbabwe. **2005**, 30, 767-771		2
594	Which crop and which drop, and the scope for improvement of water productivity. *Agricultural Water Management*, **2005**, 73, 113-130	5.9	53
593	Evapotranspiration and Crop Water Productivity: Making Sense of the Yield-ET Relationship. **2005**, 1		5
592	Deficit irrigation for reducing agricultural water use. **2007**, 58, 147-59		930
591	Wheat yield response to line-source sprinkler irrigation in the arid Southeast Anatolia region of Turkey. *Agricultural Water Management*, **2006**, 81, 59-76	5.9	31
590	Water-yield relation and water use efficiency of cotton (Gossypium hirsutum L.) and second crop corn (Zea mays L.) in western Turkey. *Agricultural Water Management*, **2006**, 82, 63-85	5.9	82
589	Water productivity analysis of irrigated crops in Sirsa district, India. *Agricultural Water Management*, **2006**, 82, 253-278	5.9	79
588	Application of a rice growth and water balance model in an irrigated semi-arid subtropical environment. *Agricultural Water Management*, **2006**, 83, 51-57	5.9	43
587	Comparative response of maize (Zea mays L.) and sorghum (Sorghum bicolor L. Moench) to deficit irrigation in a Mediterranean environment. *Agricultural Water Management*, **2006**, 83, 135-143	5.9	202
586	Combining remote sensing-simulation modeling and genetic algorithm optimization to explore water management options in irrigated agriculture. *Agricultural Water Management*, **2006**, 83, 221-232	5.9	75
585	Yield response of corn to deficit irrigation in a semiarid climate. *Agricultural Water Management*, **2006**, 84, 101-112	5.9	157
584	Crop water productivity of cotton (Gossypium hirsutum L.)□wheat (Triticum aestivum L.) system as influenced by deficit irrigation, soil texture and precipitation. *Agricultural Water Management*, **2006**, 84, 137-146	5.9	79
583	Crop water productivity of an irrigated maize crop in Mkoji sub-catchment of the Great Ruaha River Basin, Tanzania. *Agricultural Water Management*, **2006**, 85, 141-150	5.9	56
582	Assessing crop water productivity from field to regional scale. *Agricultural Water Management*, **2006**, 86, 30-39	5.9	39
581	Assessing Options to Increase Water Productivity in Irrigated River Basins Using Remote Sensing and Modelling Tools. **2006**, 22, 115-133		42
580	Agrometeorology and water needs of crops. **2006**, 1, 587		
579	Yield Response of Corn to Timing of a Limited Seasonal Irrigation Depth (150 mm) with Subsurface Drip Irrigation. **2006**, 1		

578	Comparison of irrigation strategies for surface-irrigated corn in West Central Nebraska. **2006**, 24, 257-265		19
577	Evapotranspiration of Deficit Irrigated Sorghum. **2007**, 1		1
576	GEPIC – modelling wheat yield and crop water productivity with high resolution on a global scale. **2007**, 94, 478-493		292
575	Exploring options to grow rice using less water in northern China using a modelling approach. *Agricultural Water Management*, **2007**, 88, 23-33	5.9	110
574	Climate and irrigation water use of a mountain oasis in northern Oman. *Agricultural Water Management*, **2007**, 89, 1-14	5.9	27
573	SEBAL for detecting spatial variation of water productivity and scope for improvement in eight irrigated wheat systems. *Agricultural Water Management*, **2007**, 89, 287-296	5.9	85
572	Optimizing soil moisture regime to increase water use efficiency of sugarcane (Saccharum spp. hybrid complex) in subtropical India. *Agricultural Water Management*, **2007**, 90, 95-100	5.9	30
571	Making water productivity operational – A concept of agricultural water productivity exemplified at a wheat–maize cropping pattern in the North China plain. *Agricultural Water Management*, **2007**, 91, 11-23	5.9	21
570	Scale effects on water use and water productivity in a rice-based irrigation system (UPRIIS) in the Philippines. *Agricultural Water Management*, **2007**, 92, 81-89	5.9	44
569	Twenty-five years modeling irrigated and drained soils: State of the art. *Agricultural Water Management*, **2007**, 92, 111-125	5.9	103
568	Yield and water productivity of rice–wheat on raised beds at New Delhi, India. **2007**, 100, 229-239		83
567	Rice and Water. **2007**, 92, 187-237		333
566	Water scarcity and food trade in the Southern and Eastern Mediterranean countries. **2007**, 32, 585-605		55
565	Much Improved Irrigation Use Efficiency in an Intensive Wheat-Maize Double Cropping System in the North China Plain. **2007**, 49, 1517-1526		18
564	Adaptation of crops to climate change through genotypic responses to mean and extreme temperatures. **2007**, 119, 190-204		128
563	Increasing water productivity with improved N fertilizer management. **2008**, 22, 193-207		19
562	Estimation of paddy water productivity (WP) using hydrological model: an experimental study. **2008**, 6, 327-339		19
561	Water use efficiency of crops cultivated in the Mediterranean region: Review and analysis. *European Journal of Agronomy*, **2008**, 28, 493-507	5	139

560	Enhancing water productivity at the irrigation system level: A geospatial hydrology application in the Yellow River Basin. **2008**, 72, 1046-1063		19
559	Crop yield reduction in the tropics under climate change: Processes and uncertainties. **2008**, 148, 343-356		138
558	Energy and water balance measurements for water productivity analysis in irrigated mango trees, Northeast Brazil. **2008**, 148, 1524-1537		49
557	Integrating remote sensing and a process-based hydrological model to evaluate water use and productivity in a south Indian catchment. *Agricultural Water Management*, **2008**, 95, 11-24	5.9	86
556	Response of cotton to various levels of nitrogen and water applied to normal and paired sown cotton under drip irrigation in relation to check-basin. *Agricultural Water Management*, **2008**, 95, 25-34	5.9	16
555	Yield and growth characteristics for cotton under various irrigation regimes on sandy soil. *Agricultural Water Management*, **2008**, 95, 69-76	5.9	47
554	Increasing water productivity of irrigated crops under limited water supply at field scale. *Agricultural Water Management*, **2008**, 95, 89-102	5.9	73
553	Water quality implications of raising crop water productivity. *Agricultural Water Management*, **2008**, 95, 825-835	5.9	21
552	Evaluation of options for increasing yield and water productivity of wheat in Punjab, India using the DSSAT-CSM-CERES-Wheat model. *Agricultural Water Management*, **2008**, 95, 1099-1110	5.9	78
551	Field water supply:yield relationships of grain sorghum grown in three USA Southern Great Plains soils. *Agricultural Water Management*, **2008**, 95, 1303-1313	5.9	22
550	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
549	Corn yield response to partial rootzone drying and deficit irrigation strategies applied with drip system. **2009**, 55, 494-503		36
548	Soil Water Management in India. **2009**, 23, 55-70		4
547	Organic cotton: production practices and post-harvest considerations. **2009**, 231-301		11
546	Climate change impacts on crop yield, crop water productivity and food security □A review. **2009**, 19, 1665-1674		473
545	The effect of soil texture on the water use efficiency of irrigated crops: Results of a multi-year experiment carried out in the Mediterranean region. *European Journal of Agronomy*, **2009**, 30, 95-100	5	44
544	Assessment of wheat and maize water productivities and production function for cropping system decisions in arid and semiarid regions. **2009**, 58, 105-115		17
543	Water productivity of irrigated wheat and maize in the Karkheh River basin of Iran. **2009**, 59, 264-276		11

542	Combining remote sensing and economic analysis to support decisions that affect water productivity. **2009**, 27, 243-251		25
541	A parsimonious crop-water productivity index: an application to Brazil. **2009**, 41, 94-106		3
540	A GIS-based tool for modelling large-scale crop-water relations. **2009**, 24, 411-422		130
539	Assessing economic impacts of deficit irrigation as related to water productivity and water costs. **2009**, 103, 536-551		72
538	Improving Productivity to Face Water Scarcity in Irrigated Agriculture. **2009**, 122-143		1
537	Water productivity (WP) in reservoir irrigated schemes in the upper east region (UER) of Ghana. **2009**, 34, 324-328		29
536	Reviewing SEBAL input parameters for assessing evapotranspiration and water productivity for the Low-Middle São Francisco River basin, Brazil: Part B: Application to the regional scale. **2009**, 149, 477-490		66
535	Different drip irrigation regimes affect cotton yield, water use efficiency and fiber quality in western Turkey. *Agricultural Water Management*, **2009**, 96, 111-120	5.9	106
534	The effects of irrigation methods with effluent and irrigation scheduling on water use efficiency and corn yields in an arid region. *Agricultural Water Management*, **2009**, 96, 93-99	5.9	70
533	The effect of salinity on water productivity of wheat under deficit irrigation above shallow groundwater. *Agricultural Water Management*, **2009**, 96, 517-524	5.9	42
532	Integrated effect of transplanting date, cultivar and irrigation on yield, water saving and water productivity of rice (Oryza sativa L.) in Indian Punjab: Field and simulation study. *Agricultural Water Management*, **2009**, 96, 1096-1104	5.9	47
531	Deficit irrigation as an on-farm strategy to maximize crop water productivity in dry areas. *Agricultural Water Management*, **2009**, 96, 1275-1284	5.9	536
530	Different indices to characterize water use pattern of irrigated cauliflower (Brassica oleracea L. var. botrytis) in a hot sub-humid climate of India. *Agricultural Water Management*, **2009**, 96, 1475-1482	5.9	6
529	Increasing productivity in irrigated agriculture: Agronomic constraints and hydrological realities. *Agricultural Water Management*, **2009**, 96, 1517-1524	5.9	192
528	Spatial and temporal trends of water productivity in the lower Mekong River Basin. *Agricultural Water Management*, **2009**, 96, 1567-1578	5.9	27
527	Integrated management of irrigation water and fertilizers for wheat crop using field experiments and simulation modeling. *Agricultural Water Management*, **2009**, 96, 1532-1540	5.9	38
526	Global consumptive water use for crop production: The importance of green water and virtual water. **2009**, 45,		160
525	ENSO-based climate variability affects water use efficiency of rainfed cotton grown in the southeastern USA. **2010**, 139, 629-635		20

524	A remote sensing-based irrigation performance assessment: a case study of the Office du Niger in Mali. **2010**, 28, 371-385		44
523	Performance assessment of an irrigation scheme using indicators determined with remote sensing techniques. **2010**, 28, 461-477		32
522	Simulation of salt and water movement and estimation of water productivity of rice crop irrigated with saline water. **2010**, 8, 333-346		43
521	Quantifying blue and green virtual water contents in global crop production as well as potential production losses without irrigation. **2010**, 384, 198-217		436
520	The significance of local water resources captured in small reservoirs for crop production A global-scale analysis. **2010**, 384, 264-275		123
519	Virtual water content of temperate cereals and maize: Present and potential future patterns. **2010**, 384, 218-231		187
518	Effects of corn deficit irrigation and soil properties on water use efficiency. A 25-year analysis of a Mediterranean environment using the STICS model. *European Journal of Agronomy*, **2010**, 32, 177-185	5	31
517	Effects of deficit irrigation regimes on the yield and growth of oilseed rape (Brassica napus L.). **2010**, 105, 388-394		16
516	A global and high-resolution assessment of the green, blue and grey water footprint of wheat. *Hydrology and Earth System Sciences*, **2010**, 14, 1259-1276	5.5	232
515	The Mekong: a diverse basin facing the tensions of development. **2010**, 35, 573-593		15
514	Application of remote sensing for estimating crop water requirements, yield and water productivity of wheat in the Gezira Scheme. **2010**, 31, 4281-4294		10
513	Evaluation of WaterNitrogen Schemes for Rice in Iran, Using ORYZA2000 Model. **2010**, 41, 2459-2477		11
512	Simulating water use and N response of winter wheat in the irrigated floodplains of Northwest Uzbekistan. **2010**, 116, 239-251		21
511	Irrigation strategies to improve the water use efficiency of wheatmaize double cropping systems in North China Plain. *Agricultural Water Management*, **2010**, 97, 1165-1174	5.9	111
510	Improving agricultural water productivity: Between optimism and caution. *Agricultural Water Management*, **2010**, 97, 528-535	5.9	469
509	Integrating remote sensing, census and weather data for an assessment of rice yield, water consumption and water productivity in the Indo-Gangetic river basin. *Agricultural Water Management*, **2010**, 97, 309-316	5.9	55
508	Assessing yield optimization and water reduction potential for summer-sown and spring-sown maize in Pakistan. *Agricultural Water Management*, **2010**, 97, 731-737	5.9	10
507	Water resources and water use efficiency in the North China Plain: Current status and agronomic management options. *Agricultural Water Management*, **2010**, 97, 1102-1116	5.9	155

506	Assessing grain crop water productivity of China using a hydro-model-coupled-statistics approach. *Agricultural Water Management*, **2010**, 97, 1077-1092	5.9	21
505	Assessing grain crop water productivity of China using a hydro-model-coupled-statistics approach. Part II: Application in breadbasket basins of China. *Agricultural Water Management*, **2010**, 97, 1259-1268	5.9	23
504	Effects of drip irrigation with saline water on waxy maize (Zea mays L. var. ceratina Kulesh) in North China Plain. *Agricultural Water Management*, **2010**, 97, 1303-1309	5.9	103
503	Irrigation restriction effects on water use efficiency and osmotic adjustment in Aloe Vera plants (Aloe barbadensis Miller). *Agricultural Water Management*, **2010**, 97, 1564-1570	5.9	23
502	WATPRO: A remote sensing based model for mapping water productivity of wheat. *Agricultural Water Management*, **2010**, 97, 1628-1636	5.9	30
501	A global benchmark map of water productivity for rainfed and irrigated wheat. *Agricultural Water Management*, **2010**, 97, 1617-1627	5.9	70
500	Using AquaCrop to derive deficit irrigation schedules. *Agricultural Water Management*, **2010**, 98, 213-216	5.9	65
499	A comparison of canopy evapotranspiration for maize and two perennial grasses identified as potential bioenergy crops. **2010**, 2, no-no		25
498	Yellow River basin: living with scarcity. **2010**, 35, 681-701		55
497	Effects of Crop Density and Irrigation Management on Water Productivity of Rice Production in Northern Iran: Field and Modeling Approach. **2011**, 42, 2085-2099		6
496	Differences in water use efficiency among annual forages used by the dairy industry under optimum and deficit irrigation. *Agricultural Water Management*, **2011**, 98, 759-774	5.9	33
495	Changes in evapotranspiration over irrigated winter wheat and maize in North China Plain over three decades. *Agricultural Water Management*, **2011**, 98, 1097-1104	5.9	108
494	Evapotranspiration and water use of full and deficit irrigated cotton in the Mediterranean environment in northern Syria. *Agricultural Water Management*, **2011**, 98, 1239-1248	5.9	43
493	Agricultural water productivity assessment for the Yellow River Basin. *Agricultural Water Management*, **2011**, 98, 1297-1306	5.9	20
492	Performance assessment of irrigation water management in old lands of the Nile delta of Egypt. **2011**, 25, 215-236		20
491	Estimation of agricultural water productivity in Qazvin plain using modis and Avhrr images. **2011**, 6, 93-105		
490	Effect of different levels of water deficit on rapeseed (Brassica napus L.) crop. **2011**, 35, 672-684		13
489	The Situation for Quinoa and Its Production in Southern Bolivia: From Economic Success to Environmental Disaster. **2011**, 197, 390-399		112

488	Soil water content, maize yield and its stability as affected by tillage and crop residue management in rainfed semi-arid highlands. **2011**, 344, 73-85		77
487	A simple bund plugging technique for improving water productivity in wetland rice. **2011**, 112, 66-75		22
486	Climate Change Impacts and Adaptations in the Countries of the Former Soviet Union. **2011**, 84-106		2
485	From rainfed agriculture to stress-avoidance irrigation: II. Sustainability, crop yield, and profitability. **2011**, 34, 272-281		32
484	Producing more food with less water in a changing world: assessment of water productivity in 10 major river basins. **2011**, 36, 42-62		52
483	WATER AND NITROGEN-BALANCE AND -USE EFFICIENCY IN A RICE (ORYZA SATIVA)□WHEAT (TRITICUM AESTIVUM) CROPPING SYSTEM AS INFLUENCED BY MANAGEMENT INTERVENTIONS: FIELD AND SIMULATION STUDY. **2011**, 47, 609-628		12
482	Direct Seeding of Rice. **2011**, 111, 297-413		340
481	Phenology-based Crop Classification Algorithm and its Implications on Agricultural Water Use Assessments in California□ Central Valley. **2012**, 78, 799-813		44
480	Improving crop production in the arid Mediterranean climate. **2012**, 128, 34-47		109
479	. **2012**,		
478	A regional comparison of water use efficiency for miscanthus, switchgrass and maize. **2012**, 164, 82-95		102
477	Efficiency and productivity terms for water management: A matter of contextual relativism versus general absolutism. *Agricultural Water Management*, **2012**, 108, 9-15	5.9	87
476	The best farm-level irrigation strategy changes seasonally with fluctuating water availability. *Agricultural Water Management*, **2012**, 103, 33-42	5.9	28
475	Marginal analysis of water productivity function of tomato crop grown under different irrigation regimes and mulch managements. *Agricultural Water Management*, **2012**, 104, 121-127	5.9	12
474	Effective use of water by wheat varieties with different root system sizes in rain-fed experiments in Central Europe. *Agricultural Water Management*, **2012**, 104, 203-209	5.9	21
473	Irrigation and nitrogen effects on the leaf chlorophyll content and grain yield of maize in different crop years. *Agricultural Water Management*, **2012**, 107, 133-144	5.9	27
472	Improving Water Use Efficiency for Sustainable Agriculture. **2012**, 167-211		9
471	Quantifying evapotranspiration of a rainfed potato crop in South-eastern Canada using eddy covariance techniques. *Agricultural Water Management*, **2012**, 113, 45-56	5.9	25

470	Water productivity responses and adaptation to climate change in the lower Mekong basin. **2012**, 37, 53-74		9
469	Improving crop productivity and resource use efficiency to ensure food security and environmental quality in China. **2012**, 63, 13-24		348
468	A Distributed Cotton Growth Model Developed from GOSSYM and Its Parameter Determination. **2012**, 104, 661-674		11
467	Water Use and Water Productivity of Sugarbeet, Malt Barley, and Potato as Affected by Irrigation Frequency. **2012**, 104, 1510-1516		9
466	Assessment of the Irrigation Advisory Services Recommendations and Farmers Irrigation Management: A Case Study in Southern Spain. **2012**, 26, 2397-2419		29
465	Impact of sustained deficit irrigation on spearmint (Mentha spicata L.) biomass production, oil yield, and oil quality. **2012**, 30, 213-219		14
464	Deficit irrigation: An option to mitigate arsenic load of rice grain in West Bengal, India. **2012**, 146, 147-152		42
463	Impact of saline water irrigation on yield and quality of melon (Cucumis melo cv. Huanghemi) in northwest China. *European Journal of Agronomy*, **2012**, 43, 68-76	5	21
462	Assessing impacts of agricultural water interventions in the Kothapally watershed, Southern India. **2012**, 26, 387-404		85
461	EFFECT OF DIFFERENT QUANTITIES OF SUPPLEMENTAL IRRIGATION AND ITS SALINITY ON YIELD AND WATER USE OF WINTER WHEAT (TRITICUM AESTIVUM). **2012**, 61, 89-98		9
460	An Empirical Assessment of On-Farm Water Productivity using Groundwater in a Semi-Arid Indian Watershed. **2012**, 26, 475-498		2
459	Modelling economic impacts of deficit irrigated maize in Brazil with consideration of different rainfall regimes. **2013**, 116, 97-110		7
458	Water use efficiency of dryland wheat in the Loess Plateau in response to soil and crop management. **2013**, 151, 9-18		94
457	Application of the CSM-CERES-Rice model for evaluation of plant density and irrigation management of transplanted rice for an irrigated semiarid environment. **2013**, 31, 491-506		39
456	Lower responsiveness of canopy evapotranspiration rate than of leaf stomatal conductance to open-air CO2 elevation in rice. **2013**, 19, 2444-53		22
455	Wheat yield response to line source sprinkler irrigation and soil management practices on medium-textured shallow soils of arid environment. **2013**, 31, 1185-1197		23
454	Assessment of crop growth and water productivity for five C3 species in semi-arid Inner Mongolia. *Agricultural Water Management*, **2013**, 122, 28-38	5.9	30
453	Yield and water productivity of peach trees under continuous deficit irrigation and high evaporative demand. **2013**, 29, 29-37		8

452	Productivity, evapotranspiration, and water use efficiency of corn and tomato crops simulated by AquaCrop under contrasting water stress conditions in the Mediterranean region. *Agricultural Water Management*, **2013**, 130, 14-26	5.9	86
451	WATER PRODUCTIVITY OF IRRIGATED WHEAT IN THE MAROON IRRIGATION NETWORK OF IRAN. **2013**, 62, 604-612		0
450	. **2013**, 6, 427-439		123
449	Modelling of soil salinity and halophyte crop production. **2013**, 92, 186-196		11
448	Estimation of Water Consumption of Lowland Rice in Tropical Area based on Heterogeneous Cropping Calendar Using Remote Sensing Technology. **2013**, 17, 298-307		8
447	Improving Crop Production in the Arid Mediterranean Climate. **2013**, 187-209		1
446	Current Status and Future Perspectives to Increase Nutrient- and Water-Use Efficiency in Food Production Systems in China. **2013**, 263-273		
445	Water-use efficiency and productivity trends in Australian irrigated cotton: a review. **2013**, 64, 1033		61
444	Inter-district rice water productivity differences in Bangladesh: An empirical exploration and implications. **2013**, 93, 210-218		24
443	Transforming agriculture in China: From solely high yield to both high yield and high resource use efficiency. **2013**, 2, 1-8		69
442	Comparative yield and water use efficiency of two maize hybrids differing in maturity under solid set sprinkler and two different lateral spacing drip irrigation systems in Le□, Spain. *Agricultural Water Management*, **2013**, 124, 77-84	5.9	14
441	Water use efficiency of perennial and annual bioenergy crops in central Illinois. **2013**, 118, 581-589		62
440	The effects of potassium fertilization on water-use efficiency in crop plants. **2013**, 176, 355-374		65
439	Contribution of sorghum to productivity of small-holder irrigation schemes: On-farm research in the Senegal River Valley, Mauritania. **2013**, 115, 72-82		9
438	Assessment of Equity and Adequacy of Water Delivery in Irrigation Systems Using Remote Sensing-Based Indicators in Semi-Arid Region, Morocco. **2013**, 27, 4697-4714		30
437	Drivers of change in agricultural water productivity and its improvement at basin scale in developing economies. **2013**, 38, 312-325		46
436	Seed priming improves irrigation water use efficiency, yield, and yield components of late-sown wheat under limited water conditions. **2013**, 37, 534-544		9
435	Improvements in crop water productivity increase water sustainability and food security□ global analysis. *Environmental Research Letters*, **2013**, 8, 024030	6.2	141

434	Replacing Fallow with Continuous Cropping Reduces Crop Water Productivity of Semiarid Wheat. **2013**, 105, 199-207		34
433	Food production: a mega water challenge. 142-171		
432	Monitoring of Irrigation Schemes by Remote Sensing: Phenology versus Retrieval of Biophysical Variables. **2014**, 6, 5815-5851		21
431	Do Estimates of Water Productivity Enhance Understanding of Farm-Level Water Management?. **2014**, 6, 778-795		25
430	The effect of combined application of super absorbent polymer and fulvic acid on growth and water use efficiency of pot cultured corn*. **2014**,		
429	Investigation of deficit irrigation strategies combining SVAT-modeling, optimization and experiments. **2014**, 72, 4901-4915		7
428	Water footprint benchmarks for crop production: A first global assessment. **2014**, 46, 214-223		213
427	Managing Irrigation Water by Yield and Water Productivity Assessment of a Rice-Wheat System Using Remote Sensing. *Journal of Irrigation and Drainage Engineering - ASCE*, **2014**, 140, 04014022	1.1	16
426	Strategies for Sustainable Plant Food Production: Facing the Current Agricultural Challenges. Agriculture for Today and Tomorrow. **2014**, 1-50		2
425	Optimizing Irrigation Scheduling of Summer Corn (Zea mays l.) in a Coastal Saline Field, China. **2014**, 1030-1032, 673-678		
424	Effect of Irrigation and Preplant Nitrogen Fertilizer Source on Maize in the Southern Great Plains. **2014**, 2014, 1-10		13
423	Four decades of rice water productivity in Bangladesh: A spatio-temporal analysis of district level panel data. **2014**, 44, 51-64		4
422	Impact of the shrinking winter wheat sown area on agricultural water consumption in the Hebei Plain. **2014**, 24, 313-330		20
421	Exploring synergies and tradeoffs: Energy, water, and economic implications of water reuse in rice-based irrigation systems. **2014**, 114, 889-900		19
420	Water use efficiency of dryland maize in the Loess Plateau of China in response to crop management. **2014**, 163, 55-63		119
419	Comparative evaluation of crop water use efficiency, economic analysis and net household profit simulation in arid Northwest China. *Agricultural Water Management*, **2014**, 146, 335-345	5.9	34
418	Experimental valuation of Dutch water resources according to SNA and SEEA. **2014**, 7, 66-81		17
417	Irrigation water productivity in Cambodian rice systems. **2014**, 45, 421-430		9

416	Can integrated aquaculture-agriculture (IAA) produce more crop per drop? **2014**, 6, 767-779		26
415	Improving Rice-Based Cropping Pattern Through Soil Moisture and Integrated Nutrient Management in Mid-Tropical Plain Zone of Tripura, India. **2014**, 21, 299-304		8
414	Livestock water productivity: feed resourcing, feeding and coupled feed-water resource data bases. **2014**, 54, 1584		12
413	Winter wheat with subsurface drip irrigation (SDI): Crop coefficients, water-use estimates, and effects of SDI on grain yield and water use efficiency. *Agricultural Water Management*, **2014**, 146, 1-10	5.9	43
412	Application of water footprint combined with a unified virtual crop pattern to evaluate crop water productivity in grain production in China. **2014**, 497-498, 1-9		23
411	Evaluation of Very High Soil-Water Tension Threshold Values in Sensor-Based Deficit Irrigation Systems. *Journal of Irrigation and Drainage Engineering - ASCE*, **2014**, 140,	1.1	6
410	Producing more grain with lower environmental costs. **2014**, 514, 486-9		860
409	Water Use Efficiency of Cultivated Crops. **2014**,		2
408	Simulation of a Right Abshar Irrigation Network and Its Cropping Pattern Using a System Dynamics Approach. *Journal of Irrigation and Drainage Engineering - ASCE*, **2014**, 140, 05014008	1.1	2
407	Groundwater Use for Irrigation and its Productivity: Status and Opportunities for Crop Intensification for Food Security in Bangladesh. **2014**, 28, 1415-1429		40
406	Comparison of ET estimations by the three-temperature model, SEBAL model and eddy covariance observations. **2014**, 519, 769-776		19
405	Interactive effects of free-air CO2 enrichment and drought stress on maize growth. *European Journal of Agronomy*, **2014**, 52, 11-21	5	95
404	Integrated spatial–temporal analysis of crop water productivity of winter wheat in Hai Basin. *Agricultural Water Management*, **2014**, 133, 24-33	5.9	21
403	An innovative remote sensing based reference evapotranspiration method to support irrigation water management under semi-arid conditions. *Agricultural Water Management*, **2014**, 131, 135-145	5.9	41
402	Assessing crop yield and crop water productivity and optimizing irrigation scheduling of winter wheat and summer maize in the Haihe plain using SWAT model. **2014**, 28, 2478-2498		37
401	Evaluation of water movement and water losses in a direct-seeded-rice field experiment using Hydrus-1D. *Agricultural Water Management*, **2014**, 142, 38-46	5.9	71
400	Determining the Economic Value of Water. **2014**,		49
399	Estimating Water Use Efficiency in Bioenergy Ecosystems Using a Process-Based Model. **2014**, 479-491		1

398	COMPARISON OF STATE-MANAGED AND FARMER-MANAGED IRRIGATION SYSTEMS IN PUNJAB, PAKISTAN. **2014**, 63, 628-639		2
397	Biomass Modeling of Four Leading World Crops Using Hyperspectral Narrowbands in Support of HyspIRI Mission. **2014**, 80, 757-772		12
396	Soil mulching significantly enhances yields and water and nitrogen use efficiencies of maize and wheat: a meta-analysis. *Scientific Reports*, **2015**, 5, 16210	4.9	176
395	Managing Green Water in Dryland Agriculture. **2015**, 107, 1544-1553		38
394	Regional Blue and Green Water Balances and Use by Selected Crops in the U.S.. **2015**, 51, 1626-1642		12
393	Optimal Irrigation Scheduling, Irrigation Control and Drip Line Layout to Increase Water Productivity and Profit in Subsurface Drip-Irrigated Agriculture. **2015**, 64, 501-518		10
392	Irrigation Management Reform in Northern China: Case Studies in Shanxi Province. **2015**, 64, 193-204		3
391	Lignocellulosic biomass for the preparation of cellulose-based hydrogel and its use for optimizing water resources in agriculture. **2015**, 132, n/a-n/a		20
390	Comparison of cucumber and watermelon yield and water use in clay pitcher and furrow irrigation methods. **2015**, 9, 275		2
389	Maize Water Productivity and Its Relationship to Soil Properties under Integrated Cattle Manure and Mineral-Nitrogen Fertilizer in a Smallholder Cropping System. **2015**, 107, 2410-2418		2
388	Water savings potentials of irrigation systems: global simulation of processes and linkages. *Hydrology and Earth System Sciences*, **2015**, 19, 3073-3091	5.5	183
387	Maize Response to a Deficit-irrigation Strategy in a Dry Region. **2015**,		
386	Irrigation water pricing in Awash River Basin of Ethiopia: Evaluation of its impact on scheme-level irrigation performances and willingness to pay. **2015**, 10, 554-565		9
385	Achieving Water and Food Security in 2050: Outlook, Policies, and Investments. **2015**, 5, 188-220		8
384	Cotton Water Use Efficiency under Two Different Deficit Irrigation Scheduling Methods. *Agronomy*, **2015**, 5, 363-373	3.6	4
383	Changing Food Consumption Patterns and Impact on Water Resources in the Fragile Grassland of Northern China. **2015**, 7, 5628-5647		18
382	Recharge and groundwater use in the North China Plain for six irrigated crops for an eleven year period. **2015**, 10, e0115269		47
381	Is yield increase sufficient to achieve food security in China?. **2015**, 10, e0116430		32

380	Dry Matter Production, Photosynthesis of Flag Leaves and Water Use in Winter Wheat Are Affected by Supplemental Irrigation in the Huang-Huai-Hai Plain of China. **2015**, 10, e0137274		23
379	Quantifying and Managing Corn Water Use Efficiencies under Irrigated and Rainfed Conditions in Nebraska Using the Hybrid-Maize Simulation Model. **2015**, 113-138		1
378	Water Use Efficiency of Durum Wheat (Triticum durum Desf) under Deficit Irrigation. **2015**, 7,		
377	Lateral spacing in drip-irrigated wheat: The effects on soil moisture, yield, and water use efficiency. **2015**, 179, 52-62		39
376	China water for food under growing water scarcity. **2015**, 7, 933-949		22
375	Effects of Different Fertilizer and Irrigation Water Types, and Dissolved Organic Matter on Soil C and N Mineralization in Crop Rotation Farmland. **2015**, 226, 1		13
374	Strategies for increasing the capture, storage, and utilization of precipitation in semiarid regions. **2015**, 14, 1500-1510		7
373	Terrestrial ecosystems in a changing environment: a dominant role for water. **2015**, 66, 599-622		65
372	Effect of diversified crop rotations on groundwater levels and crop water productivity in the North China Plain. **2015**, 522, 428-438		51
371	Spatio-temporal performance of large-scale Gezira Irrigation Scheme, Sudan. **2015**, 133, 131-142		25
370	The water footprint of Tunisia from an economic perspective. **2015**, 52, 311-319		74
369	Water-Yield Relations and Water Use Efficiency of Maize Under Nitrogen Fertigation for Semiarid Environments: Experiment and Synthesis. **2015**, 175-229		29
368	Rainfall Variability: A Tool for Crop Planning of Udaipur Region of India. **2015**, 38, 95-98		3
367	An evaluation of the water utilization and grain production of irrigated and rain-fed croplands in China. **2015**, 529, 10-20		53
366	Effect of deficit irrigation and different saline groundwater depths on yield and water productivity of quinoa. *Agricultural Water Management*, **2015**, 159, 225-238	5.9	17
365	Simple equation for estimating actual evapotranspiration using heat units for wheat inarid regionsPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. **2015**, 8, 418-427		15
364	Water productivity and food security: considering more carefully the farm-level perspective. **2015**, 7, 247-260		11
363	Water productivity evaluation for grain crops in irrigated regions of China. **2015**, 55, 107-117		23

362	Effect of Deficit Irrigation on the Growth, Water Use Characteristics and Yield of Cotton in Arid Northwest China. **2015**, 25, 910-924		42
361	Water productivity and water footprints are not helpful in determining optimal water allocations or efficient management strategies. **2015**, 40, 1059-1070		10
360	Integrated assessment of water□energy□GHG emissions tradeoffs in an irrigated lucerne production system in eastern Australia. **2015**, 103, 491-498		13
359	Realization of Daily Evapotranspiration in Arid Ecosystems Based on Remote Sensing Techniques. **2016**,		1
358	Estimating the Evaporation from Irrigation Canals in Northwestern China Using the Double-Deck Surface Air Layer Model. **2016**, 2016, 1-9		2
357	Crop Water Production Functions□A Review of Available Mathematical Method. **2016**, 8, 76		6
356	Predicting Maize Transpiration, Water Use and Productivity for Developing Improved Supplemental Irrigation Schedules in Western Uruguay to Cope with Climate Variability. **2016**, 8, 309		18
355	Improving Water Sustainability and Food Security through Increased Crop Water Productivity in Malawi. **2016**, 8, 411		19
354	Water-Food-Nutrition-Health Nexus: Linking Water to Improving Food, Nutrition and Health in Sub-Saharan Africa. **2016**, 13,		54
353	Measuring the performance of perennial alfalfa with drought tolerance indices. **2016**, 76, 273-284		4
352	Monitoring winter wheat drought threat in Northern China using multiple climate-based drought indices and soil moisture during 2000□2013. **2016**, 228-229, 1-12		83
351	Irrigated and rain-fed maize response to different nitrogen fertilizer application methods. **2016**, 39, 1874-1890		5
350	Irrigation water productivity is more influenced by agronomic practice factors than by climatic factors in Hexi Corridor, Northwest China. *Scientific Reports*, **2016**, 6, 37971	4.9	27
349	Sustainability of rice intensification in Uruguay from 1993 to 2013. **2016**, 9, 10-18		20
348	A decision support system for managing irrigation in agriculture. **2016**, 124, 121-131		130
347	Estimation and Characterization of Deep Percolation from Rice and Berseem Fields Using Lysimeter Experiments on Sandy Loam Soil. **2016**, 21, 05016006		5
346	Drainage and Nitrate Leaching Assessed During 7 Years Under Perennial and Annual Bioenergy Crops. **2016**, 9, 656-670		16
345	Optimising supplemental irrigation for wheat (Triticum aestivum L.) and the impact of plant bio-regulators in a semi-arid region of Deccan Plateau in India. *Agricultural Water Management*, **2016**, 172, 9-17	5.9	31

344	Economics of Salinity Effects from Irrigated Cotton: An Efficiency Analysis. **2016**, 02, 1650002		1
343	Water Productivity in Agriculture: Looking for Water in the Agricultural Productivity and Efficiency Literature. **2016**, 02, 1650007		9
342	Effects of agricultural management on measurements, prediction, and partitioning of evapotranspiration in irrigated grasslands. *Agricultural Water Management*, **2016**, 177, 340-347	5.9	16
341	Comparison of carbon budget, evapotranspiration, and albedo effect between the biofuel crops switchgrass and corn. **2016**, 231, 271-282		21
340	Evaluation of crop water productivity under sprinkler irrigation regime using a distributed agro-hydrological model in an irrigation district of China. *Agricultural Water Management*, **2016**, 178, 350-365	5.9	14
339	Soil Water Balance and Water Use Efficiency of Dryland Wheat in Different Precipitation Years in Response to Green Manure Approach. *Scientific Reports*, **2016**, 6, 26856	4.9	25
338	Mechanisms of Hormone Regulation for Drought Tolerance in Plants. **2016**, 45-75		7
337	Gravimetric phenotyping of whole plant transpiration responses to atmospheric vapour pressure deficit identifies genotypic variation in water use efficiency. **2016**, 251, 101-109		39
336	Multi-Objective Optimization Model for the Allocation of Water Resources in Arid Regions Based on the Maximization of Socioeconomic Efficiency. **2016**, 30, 927-946		69
335	Optimized single irrigation can achieve high corn yield and water use efficiency in the Corn Belt of Northeast China. *European Journal of Agronomy*, **2016**, 75, 12-24	5	29
334	Irrigation, a productive tool for food security a review. **2016**, 66, 191-206		7
333	Development of a regionally sensitive water-productivity indicator to identify sustainable practices for sugarcane growers. **2016**, 12, 811-20		3
332	Effect of deficit irrigation, phosphorous inoculation and cycocel spray on root growth, seed cotton yield and water productivity of drip irrigated cotton in arid environment. *Agricultural Water Management*, **2016**, 169, 14-25	5.9	30
331	Evapotranspiration, water use efficiency, and energy partitioning of a mature switchgrass stand. **2016**, 217, 108-119		40
330	Bio-chemicals from lignocellulose feedstock: sustainability, LCA and the green conundrum. **2016**, 18, 1912-1922		77
329	Optimal model-based deficit irrigation scheduling using AquaCrop: A simulation study with cotton, potato and tomato. *Agricultural Water Management*, **2016**, 163, 236-243	5.9	58
328	An economic valuation of groundwater management for Agriculture in Luancheng county, North China. *Agricultural Water Management*, **2016**, 163, 28-36	5.9	11
327	Effects of variation in rainfall on rainfed crop yields and water use in dryland farming areas in China. **2016**, 30, 1-24		16

326	Assessing the supplementary irrigation for improving crop productivity in water stress region using spatial hydrological model. **2017**, 32, 1-17		25
325	Responses of yield and WUE of winter wheat to water stress during the past three decades A case study in the North China Plain. *Agricultural Water Management*, **2017**, 179, 47-54	5.9	63
324	Meteorological limits to winter wheat productivity in the U.S. southern Great Plains. **2017**, 203, 212-226		51
323	Designing a new cropping system for high productivity and sustainable water usage under climate change. *Scientific Reports*, **2017**, 7, 41587	4.9	17
322	Water productivity of maize in the US high plains. **2017**, 35, 251-266		56
321	Irrigation management based on soil matric potential improves water use efficiency of field-grown strawberries in California. **2017**, 191-196		2
320	Assessing water productivity in the Hetao Irrigation District in Inner Mongolia by an agro-hydrological model. **2017**, 35, 357-382		23
319	Effects of watering regime and nitrogen application rate on the photosynthetic parameters, physiological characteristics, and agronomic traits of rice. **2017**, 39, 1		20
318	Possible pathways and tensions in the food and water nexus. **2017**, 5, 449-462		26
317	Responses of water productivity to irrigation and N supply for hybrid maize seed production in an arid region of Northwest China. **2017**, 9, 504-514		16
316	Crop evapotranspiration in the Nile Delta under different irrigation methods. **2017**, 62, 1618-1635		13
315	Water limits to closing yield gaps. **2017**, 99, 67-75		40
314	Water (stress) models and deficit irrigation: System-theoretical description and causality mapping. **2017**, 361, 135-156		18
313	Farmers' Willingness to Adopt Conservation Agriculture: New Evidence from Lebanon. **2017**, 60, 693-704		13
312	Managed aquifer recharge through off-season irrigation in agricultural regions. **2017**, 53, 6970-6992		46
311	Evapotranspiration of winter wheat estimated with the FAO 56 approach and NDVI measurements in a temperate humid climate of NW Europe. *Agricultural Water Management*, **2017**, 192, 180-188	5.9	14
310	Assessing water scarcity in agricultural production system based on the generalized water resources and water footprint framework. **2017**, 609, 587-597		97
309	Groundwater and human development: synergies and trade-offs within the context of the sustainable development goals. **2017**, 12, 1007-1017		61

308	Combined deficit irrigation and soil fertility management on different soil textures to improve wheat yield in drought-prone Bangladesh. *Agricultural Water Management*, **2017**, 191, 124-137	5.9	27
307	Optimizing water use efficiency and economic return of super high yield spring maize under drip irrigation and plastic mulching in arid areas of China. **2017**, 211, 137-146		70
306	Evapotranspiration, irrigation water requirement, and water productivity of rice (Oryza sativa L.) in the Sahelian environment. **2017**, 15, 469-482		12
305	The water productivity score (WPS) at global and regional level: Methodology and first results from remote sensing measurements of wheat, rice and maize. **2017**, 575, 595-611		47
304	Drought Tolerance and Water Use of Cereal Crops: A Focus on Sorghum as a Food Security Crop in Sub-Saharan Africa. **2017**, 203, 177-191		90
303	Recent patterns of production for the main cereal grains: implications for food security in China. **2017**, 17, 105-116		10
302	Spatio-temporal distribution of irrigation water productivity and its driving factors for cereal crops in Hexi Corridor, Northwest China. *Agricultural Water Management*, **2017**, 179, 55-63	5.9	29
301	Assessing the Economic Implications of Reduced Water Availability and Better Management Practices on Representative Farms in Southern Alberta. **2017**, 65, 189-217		
300	Conservation tillage as an approach to enhance crops water use efficiency. **2017**, 67, 252-262		6
299	Evaluation of Water Schemes for Maize Under Arid area in Iran Using the SWAP Model. **2017**, 48, 1963-1976		3
298	Optimal pre-plant irrigation and fertilization can improve biomass accumulation by maintaining the root and leaf productive capacity of cotton crop. *Scientific Reports*, **2017**, 7, 17168	4.9	5
297	Maize Yield as a Function of Water Availability across Precipitation Years in the North China Plain. **2017**, 57, 2226-2237		3
296	Modeling Crop Water Productivity Using a Coupled SWAT–MODSIM Model. **2017**, 9, 157		18
295	Modeling of Soil Water Regime and Water Balance in a Transplanted Rice Field Experiment with Reduced Irrigation. **2017**, 9, 248		17
294	Soil Water and Phreatic Evaporation in Shallow Groundwater during a Freeze–Thaw Period. **2017**, 9, 396		13
293	Water use and productivity of maize-based cropping systems in the Alqueva region (Portugal). **2017** , 45, 711-721		5
292	The impacts of data constraints on the predictive performance of a general process-based crop model (PeakN-crop v1.0). **2017**, 10, 1679-1701		4
291	Realization of daily evapotranspiration in arid ecosystems based on remote sensing techniques. **2017**, 6, 141-147		6

290	Impact of Irrigation Technologies and Strategies on Cotton Water Footprint Using AquaCrop and CROPWAT Models. **2018**, 5, 181-199		21
289	Opportunistic Market-Driven Regional Shifts of Cropping Practices Reduce Food Production Capacity of China. **2018**, 6, 634-642		11
288	Components of feed affecting water footprint of feedlot dairy farm systems in Northern China. **2018**, 183, 208-219		7
287	Drip irrigation enhances shallow groundwater contribution to crop water consumption in an arid area. **2018**, 32, 747-758		22
286	An assessment of satellite-based agricultural water productivity over the Indian region. **2018**, 39, 2294-2311		2
285	Effective use rate of generalized water resources assessment and to improve agricultural water use efficiency evaluation index system. **2018**, 86, 58-66		26
284	Wheat Yield and Water Use Efficiency in the North of Tunisia Under Supplemental Irrigation. **2018**, 779-780		
283	Adaptation of land management in the Mediterranean under scenarios of irrigation water use and availability. **2018**, 23, 821-837		27
282	Waste management system in the clothing industry in Santa Catarina State Brazil. **2018**, 29, 594-607		2
281	Performance evaluation of reservoir-based irrigation schemes in the Upper East region of Ghana. *Agricultural Water Management*, **2018**, 202, 134-145	5.9	9
280	Enhancing field scale water productivity for several rice cultivars under limited water supply. **2018**, 16, 125-141		5
279	How water amounts and management options drive Irrigation Water Productivity of rice. A multivariate analysis based on field experiment data. *Agricultural Water Management*, **2018**, 195, 47-57	5.9	19
278	Indices of forage nutritional yield and water use efficiency amongst spring-sown annual forage crops in north-west China. *European Journal of Agronomy*, **2018**, 93, 1-10	5	21
277	Alternate wetting and drying reduces methane emission from a rice paddy in Central Java, Indonesia without yield loss. **2018**, 64, 23-30		40
276	Untangling the effects of shallow groundwater and deficit irrigation on irrigation water productivity in arid region: New conceptual model. **2018**, 619-620, 1170-1182		28
275	Modeling plant density and ponding water effects on flooded rice evapotranspiration and crop coefficients: critical discussion about the concepts used in current methods. **2018**, 132, 1165-1186		5
274	From Global Goals to Local Gains□A Framework for Crop Water Productivity. **2018**, 7, 414		10
273	Beneficios agron□micos y ambientales de fuentes de fertilizantes nitrogenados en Ocimum basilicum L.. **2018**, 85, 294-303		

272	Mapping Ecological Production and Benefits from Water Consumed in Agricultural and Natural Landscapes: A Case Study of the Pangani Basin. **2018**, 10, 1802		1
271	Water Footprint for Pulse, Cereal, and Oilseed Crops in Saskatchewan, Canada. **2018**, 10, 1609		9
270	Agricultural Water Productivity-Based Hydro-Economic Modeling for Optimal Crop Pattern and Water Resources Planning in the Zarrine River Basin, Iran, in the Wake of Climate Change. **2018**, 10, 3953		15
269	Low Water Productivity for Rice in Bihar, India: A Critical Analysis. **2018**, 10, 1082		6
268	Closing water productivity gaps to achieve food and water security for a global maize supply. *Scientific Reports*, **2018**, 8, 14762	4.9	7
267	Ammonium uptake and metabolism alleviate PEG-induced water stress in rice seedlings. **2018**, 132, 128-137		24
266	Evolution of Crop Water Productivity in the Nile Delta over Three Decades (1985–2015). **2018**, 10, 1168		15
265	Climate variability impacts on rice production in the Philippines. **2018**, 13, e0201426		33
264	Variation in agricultural water demand and its attributions in the arid Tarim River Basin. *Journal of Agricultural Science*, **2018**, 156, 301-311	1	14
263	Integrated assessment of economic and environmental consequences of shifting cropping system from wheat-maize to monocropped maize in the North China Plain. **2018**, 193, 524-532		36
262	Simulation of the irrigation requirements for improving carbon sequestration in a rainfed cropping system under long-term fertilization on the Loess Plateau of China. **2018**, 265, 198-208		12
261	Real-time irrigation: Cost-effectiveness and benefits for water use and productivity of strawberries. **2018**, 240, 468-477		9
260	Minimize water deficit in wheat crop to ameliorate groundwater decline in rice-wheat cropping system. *Agricultural Water Management*, **2018**, 208, 261-267	5.9	11
259	Nutritional water productivity of selected leafy vegetables. *Agricultural Water Management*, **2018**, 209, 111-122	5.9	15
258	Year-Round Irrigation Schedule for a Tomato–Maize Rotation System in Reservoir-Based Irrigation Schemes in Ghana. **2018**, 10, 624		3
257	Assessing the Water Footprint of Wheat and Maize in Haihe River Basin, Northern China (1956–2015). **2018**, 10, 867		13
256	Temporal–Spatial distributions of water use and productivity of maize in China. *Journal of Agricultural Science*, **2018**, 156, 528-536	1	5
255	Appraisal of Agriglass in Promoting Maize Production Under Abiotic Stress Conditions. **2018**, 10, 1841-1849		4

254	Evaluation of maize production under mobile drip irrigation. *Agricultural Water Management*, **2018**, 210, 11-21	5.9	9
253	Scoping of promising land management and water use practices in the dry areas of Uzbekistan. *Agricultural Water Management*, **2018**, 207, 15-25	5.9	4
252	Effects of water stress on water use efficiency of irrigated and rainfed wheat in the Loess Plateau, China. **2018**, 642, 1-11		34
251	Water productivity of rainfed maize and wheat: A local to global perspective. **2018**, 259, 364-373		48
250	Combined use of agro-climatic and very high-resolution remote sensing information for crop monitoring. **2018**, 72, 66-75		23
249	Increasing World Average Yields of Cereal Crops: It's All About Water. **2018**, 151, 1-44		22
248	Calibration and validation of the AquaCrop model for repeatedly harvested leafy vegetables grown under different irrigation regimes. *Agricultural Water Management*, **2018**, 208, 107-119	5.9	17
247	Nitrous oxide emission and mitigation from maize–wheat rotation in the upper Indo-Gangetic Plains. **2019**, 10, 489-499		20
246	Temporal-Spatial Distribution Characteristics and Influencing Factors of Regional Agricultural Water Requirement Indicators. *Journal of Irrigation and Drainage Engineering - ASCE*, **2019**, 145, 04019019	1.1	4
245	Effect of water salinity and irrigation regime on maize (Zea mays L.) cultivated on clay loam soil and irrigated by furrow in Southern Italy. *Agricultural Water Management*, **2019**, 222, 118-124	5.9	19
244	Status of accuracy in remotely sensed and in-situ agricultural water productivity estimates: A review. **2019**, 234, 111413		23
243	Water Management in Cotton. **2019**, 47-59		2
242	. **2019**,		5
241	Four perspectives on water for global food production and international trade: incommensurable objectives and implications. **2019**, 40, 30-36		6
240	Using indicators to inform the sustainable governance of water-for-food systems. **2019**, 40, 55-62		6
239	Deficit Irrigation Scheduling and Superabsorbent Polymer- Hydrogel Enhance Seed Yield, Water Productivity and Economics of Indian Mustard Under Semi-Arid Ecologies. **2019**, 68, 531-541		4
238	A global synthesis of the effect of water and nitrogen input on maize (Zea mays) yield, water productivity and nitrogen use efficiency. **2019**, 268, 136-145		19
237	Water-Related Variables for Predicting Yield of Apple under Deficit Irrigation. **2019**, 5, 8		4

236	Global Climate Change and Its Impact on Agriculture. **2019**, 1-50		5
235	Simulating the Impacts of Irrigation Levels on Soybean Production in Texas High Plains to Manage Diminishing Groundwater Levels. **2019**, 55, 56-69		12
234	Agronomic Practices for Reducing Wheat Yield Gaps: A Quantitative Appraisal of Progressive Producers. **2019**, 59, 333-350		33
233	Effects of Soils and Irrigation Volume on Maize Yield, Irrigation Water Productivity, and Nitrogen Uptake. *Scientific Reports*, **2019**, 9, 7740	4.9	26
232	Yield, fruit quality and water use efficiency of tomato for processing under regulated deficit irrigation: A meta-analysis. *Agricultural Water Management*, **2019**, 222, 301-312	5.9	39
231	LCIS DSS: An irrigation supporting system for water use efficiency improvement in precision agriculture: A maize case study. **2019**, 176, 102646		31
230	Roles of methyl jasmonate in improving growth and yield of two varieties of bread wheat (Triticum aestivum) under different irrigation regimes. *Agricultural Water Management*, **2019**, 222, 336-345	5.9	5
229	Evaluating the effects of limited irrigation on crop water productivity and reducing deep groundwater exploitation in the North China Plain using an agro-hydrological model: I. Parameter sensitivity analysis, calibration and model validation. **2019**, 574, 497-516		20
228	Water relations and productivity of two lines of pearl millet grown on lysimeter with two different soil types. *Agricultural Water Management*, **2019**, 221, 528-537	5.9	2
227	Modeling soil water balance and irrigation strategies in a flood-irrigated wheat-maize rotation system. A case in dry climate, China. *Agricultural Water Management*, **2019**, 221, 286-302	5.9	15
226	Global Satellite-Based ET Products for the Local Level Irrigation Management: An Application of Irrigation Performance Assessment in the Sugarbelt of Swaziland. **2019**, 11, 705		12
225	How should crop water-use efficiency be analyzed? A warning about spurious correlations. **2019**, 235, 59-67		10
224	Concurrent Drought and Temperature Stress in Rice-A Possible Result of the Predicted Climate Change: Effects on Yield Attributes, Eating Characteristics, and Health Promoting Compounds. **2019**, 16,		27
223	Effects of biochar and inorganic fertiliser applications on growth, yield and water use efficiency of maize under deficit irrigation. *Agricultural Water Management*, **2019**, 217, 165-178	5.9	47
222	Efficient Identification of Corn Cultivation Area with Multitemporal Synthetic Aperture Radar and Optical Images in the Google Earth Engine Cloud Platform. **2019**, 11, 629		41
221	High resolution mapping of agricultural water productivity using SEBAL in a cultivated African catchment, Tanzania. **2019**, 112, 36-49		12
220	The role of soil hydraulic properties in crop water use efficiency: A process-based analysis for some Brazilian scenarios. **2019**, 173, 364-377		13
219	Current and potential capabilities of UAS for crop water productivity in precision agriculture. *Agricultural Water Management*, **2019**, 218, 158-164	5.9	32

218	Management practice to optimize wheat yield and water use in changing climate. **2019**, 65, 1802-1819		4
217	Managing food and bioenergy crops with declining groundwater levels in the North China Plain. **2019**, 234, 1-14		15
216	Water. **2019**, 176-195		
215	Wheat response to water stress condition at different growth stages in Amibara, Ethiopia. **2019**, 14, 1493-1498		0
214	A goal programming approach for balancing diet costs and feed water use under different environmental conditions. **2019**, 102, 11504-11522		1
213	Evaluation of Hydroclimatic Variability and Prospective Irrigation Strategies in the U.S. Corn Belt. **2019**, 11, 2447		3
212	Pre-Sowing Irrigation Plus Surface Fertilization Improves Morpho-Physiological Traits and Sustaining Water-Nitrogen Productivity of Cotton. *Agronomy*, **2019**, 9, 772	3.6	1
211	Comparative assessment of irrigation systems performance: Case study in the Triffa agricultural district, NE Morocco. *Agricultural Water Management*, **2019**, 212, 338-348	5.9	6
210	Performance of small-scale irrigation schemes in Lake Tana Basin of Ethiopia: technical and socio-political attributes. **2019**, 40, 227-251		8
209	Irrigation leads to greater maize yield at higher water productivity and lower environmental costs: a global meta-analysis. **2019**, 273, 62-69		21
208	Modelling and measurement of water productivity and total evaporation in a dryland soybean crop. **2019**, 266-267, 65-72		18
207	Temporal variability of water footprint for cereal production and its controls in Saskatchewan, Canada. **2019**, 660, 1306-1316		11
206	Developing soil matric potential based irrigation strategies of direct seeded rice for improving yield and water productivity. *Agricultural Water Management*, **2019**, 215, 8-15	5.9	9
205	Effect of Irrigation Depth Reduction, Planting Date and Cropping Pattern on Water Productivity in West Lake Urmia, Iran. **2019**, 68, 191-204		2
204	Increase in economic efficiency of water use caused by crop structure adjustment in arid areas. **2019**, 230, 386-391		18
203	Can mulching of maize straw complement deficit irrigation to improve water use efficiency and productivity of winter wheat in North China Plain?. *Agricultural Water Management*, **2019**, 213, 1-11	5.9	18
202	A Comparative Analysis of Yield Gaps and Water Productivity on Smallholder Farms in Ethiopia, South Africa and Tunisia. **2020**, 69, 70-87		5
201	Quantification of cotton water consumption by remote sensing. **2020**, 35, 1800-1813		5

200	A meta-analysis of global crop water productivity of three leading world crops (wheat, corn, and rice) in the irrigated areas over three decades. **2020**, 13, 939-975		18
199	Factors affecting crop water use efficiency: A worldwide meta-analysis. *Agricultural Water Management*, **2020**, 228, 105878	5.9	30
198	NDVI-based estimates of evapotranspiration of winter wheat indicate positive effects of N fertilizer application on agronomic water-use efficiency. **2020**, 206, 1-12		6
197	State-based open-loop control of plant growth by means of water stress training. *Agricultural Water Management*, **2020**, 230, 105963	5.9	0
196	Optimization of drip irrigation and fertilization regimes for high grain yield, crop water productivity and economic benefits of spring maize in Northwest China. *Agricultural Water Management*, **2020**, 230, 105986	5.9	56
195	Climate-driven constraints in sustaining future wheat yield and water productivity. *Agricultural Water Management*, **2020**, 231, 105991	5.9	11
194	Temporal and spatial variations of irrigation water use for commercial corn fields in Central Nebraska. *Agricultural Water Management*, **2020**, 228, 105924	5.9	5
193	Mapping catchment-scale unmonitored groundwater abstractions: Approaches based on soft data. *Journal of Hydrology: Regional Studies*, **2020**, 30, 100695	3.6	0
192	Remote sensing-based assessments of land use, soil and vegetation status, crop production and water use in irrigation systems of the Aral Sea Basin. A review. **2020**, 11, 100078		7
191	Forty Years of Increasing Cotton Water Productivity and Why the Trend Will Continue. **2020**, 36, 457-478		2
190	The effect of irrigation strategies and nitrogen fertilizer rates on maize growth and grain yield. **2020**, 38, 461-478		13
189	Determining effects of water and nitrogen inputs on wheat yield and water productivity and nitrogen use efficiency in China: A quantitative synthesis. *Agricultural Water Management*, **2020**, 242, 106397	5.9	6
188	Estimating Conveyance Efficiency and Maize Productivity of Traditional Irrigation Systems in Usa River Catchment, Tanzania. **2020**, 2020, 1-11		
187	Water Productivity Improvement Under Salinity Conditions: Case Study of the Saline Areas of Lower Karkheh River Basin, Iran. **2020**,		1
186	Water supply and effective rainfall impacts on major crops across irrigated areas of Punjab, Pakistan. **2020**, 142, 1097-1116		4
185	Remote sensing: the method of GIS application for monitoring the state of soils. **2020**, 175, 06009		6
184	A crop type dataset for consistent land cover classification in Central Asia. **2020**, 7, 250		2
183	Spatiotemporal Assessment of Irrigation Performance of the Kou Valley Irrigation Scheme in Burkina Faso Using Satellite Remote Sensing-Derived Indicators. **2020**, 9, 484		3

182	Water productivity of high performing apple orchards in the winter rainfall area of South Africa. **2020**, 479-486		
181	Interactive Effects of Nitrogen and Drip Irrigation Rates on Root Development of Corn (Zea Mays L.) and Residual Soil Moisture. **2020**, 72, 335-349		1
180	Evaluating agricultural water-use efficiency based on water footprint of crop values: a case study in Xinjiang of China. **2020**, 12, 580-593		5
179	Transpiration and evaporation of grassland using land surface modelling. **2020**, 34, 3656-3668		2
178	On Parameterizing Soil Evaporation in a Direct Remote Sensing Model of ET: PT-JPL. **2020**, 56, e2019WR026290		6
177	Growth and water-use characteristics of Romaine lettuce cultivated in Histosol as affected by irrigation management, compaction, and seeding type. **2020**, 100, 278-288		
176	Water usage and productivity of Boro rice at the field level and their impacts on the sustainable groundwater irrigation in the North-West Bangladesh. *Agricultural Water Management*, **2020**, 240, 106294	5.9	19
175	Determining effects of water and nitrogen input on maize (Zea mays) yield, water- and nitrogen-use efficiency: A global synthesis. *Scientific Reports*, **2020**, 10, 9699	4.9	6
174	Water productivity of irrigated maize production systems in Northern China: A meta-analysis. *Agricultural Water Management*, **2020**, 234, 106119	5.9	12
173	Limited irrigation influence on rotation yield, water use, and wheat traits. **2020**, 112, 241-256		5
172	A spatially explicit analysis of wheat and maize yield sensitivity to changing groundwater levels in Hungary, 1961-2010. **2020**, 715, 136555		10
171	No-tillage with reduced water and nitrogen supply improves water use efficiency of wheat in arid regions. **2020**, 112, 578-591		4
170	Living at the Water's Edge: A World-Wide Econometric Panel Estimation of Arable Water Footprint Drivers. **2020**, 12, 1060		1
169	Economic analysis of saffron production. **2020**, 337-356		4
168	Detection of phenology using an improved shape model on time-series vegetation index in wheat. **2020**, 173, 105398		10
167	Climate variability in agriculture and crop water requirement: Spatial analysis of Italian provinces. **2020**, 262, 121331		4
166	Identifying the spatiotemporal changes of annual harvesting areas for three staple crops in China by integrating multi-data sources. *Environmental Research Letters*, **2020**, 15, 074003	6.2	18
165	A quantitative review of water footprint accounting and simulation for crop production based on publications during 2002–2018. **2021**, 120, 106962		11

164	Nano-fertilizers improved drought tolerance in wheat under deficit irrigation. *Agricultural Water Management*, **2021**, 244, 106544	5.9	21
163	Response of winter-wheat grain yield and water-use efficiency to irrigation with activated water on Guanzhong Plain in China. **2021**, 39, 263-276		6
162	Assessment of irrigation expansion and implications for water resources by using RS and GIS techniques in the Lake Tana Basin of Ethiopia. **2020**, 193, 13		5
161	The scarcity-weighted water footprint provides unreliable water sustainability scoring. **2021**, 756, 143992		22
160	Tweaking Pakistani Punjab rice-wheat management to maximize productivity within nitrate leaching limits. **2021**, 260, 107964		3
159	Effects of nitrogen fertigation on yield, quality components, water use efficiency and nitrogen use efficiency of silage maize (Zea Mays L.) as the second crop. **2021**, 44, 373-394		2
158	Past trends in water productivity at the global and regional scale. **2021**, 3, 99-118		1
157	Chapter 9 The Outlook for C4 Crops in Future Climate Scenarios. **2021**, 251-281		0
156	Effect of Drip Irrigation on Soil Water Balance and Water Use Efficiency of Maize in Northwest China. **2021**, 13, 217		2
155	Bioelectrochemical technologies: Current and potential applications in agriculture resource recovery. **2021**, 209-308		
154	Salinity and fertility stresses modify Ks and readily available water coefficients in maize (case study: Qazvin region). **2021**, 39, 299-313		3
153	Modelling climate smart rice-wheat production system in the middle Gangetic plains of India. **2021**, 144, 77-91		0
152	A comprehensive analysis of water productivity in natural vegetation and various crops coexistent agro-ecosystems. *Agricultural Water Management*, **2021**, 243, 106481	5.9	3
151	Estimating different productivity functions: Theory and review of past global attempts. **2021**, 3, 65-98		
150	Measure for raising crop water productivity in South Asia and Sub-Saharan Africa. **2021**, 157-196		0
149	Conceptual issues in water use efficiency and water productivity. **2021**, 3, 49-63		
148	Closing yield and harvest area gaps to mitigate water scarcity related to China rice production. *Agricultural Water Management*, **2021**, 245, 106602	5.9	3
147	Assessment of soil surface scarification and reseeding with sulla (Hedysarum coronarium L.) of degraded Mediterranean semi-arid rangelands. 1-10		1

146	Water productivity improvement in summer maize □A case study in the North China Plain from 1980 to 2019. *Agricultural Water Management*, **2021**, 247, 106728	5.9	5
145	Enhancing Water Productivity Through On-Farm Water Management. **2021**, 109-124		0
144	Irrigation management evaluation of multiple irrigation methods using performance indicators. 1-10		0
143	The effects of deficit irrigation practices on evapotranspiration, yield and quality characteristics of two sesame varieties (Sesamum indicum L.) grown in lysimeters under the Mediterranean climate conditions. **2021**, 39, 587-606		1
142	Informing drought mitigation policy by estimating the value of water for crop production. **2021**, 3, 041004		
141	Simulated efficient growth-stage-based deficit irrigation strategies for maximizing cotton yield, crop water productivity and net returns. *Agricultural Water Management*, **2021**, 250, 106840	5.9	4
140	Assessment of Planting Method and Deficit Irrigation Impacts on Physio-Morphology, Grain Yield and Water Use Efficiency of Maize (L.) on Vertisols of Semi-Arid Tropics. **2021**, 10,		4
139	An assessment of water consumption patterns and land productivity and water productivity using WA+ framework and satellite data inputs. **2021**, 103053		1
138	The regulation and management of water resources in groundwater over-extraction area based on ET. **2021**, 146, 57-69		0
137	Agronomic gain: Definition, approach, and application. **2021**, 270, 108193		5
136	Assessment of Different Water Use Efficiency Calculations for Dominant Forage Crops in the Great Lakes Basin. **2021**, 11, 739		1
135	Evaluation of irrigation scheduling and yield response for wheat cultivars using the AquaCrop model in an arid climate.		1
134	Use of efficient water saving techniques for production of rice in India under climate change scenario: A critical review. **2021**, 309, 127272		12
133	Calibration method to address influences of temperature and electrical conductivity for a low-cost soil water content sensor in the agricultural field. *Agricultural Water Management*, **2021**, 255, 107015	5.9	4
132	Deficit irrigation as a sustainable option for improving water productivity in Sub-Saharan Africa: the case of Ethiopia. A critical review.		3
131	SDG indicator 6.4.1 "change in water use efficiency over time": Methodological flaws and suggestions for improvement. **2021**, 801, 149431		6
130	Ecological aspects of the soil-water-plant-atmosphere system. **2022**, 279-302		1
129	Dry Matter Production, Partitioning, and Seed Yield Under Soil Water Deficit: A Review. **2021**, 585-702		

128	Framework for identifying the interventions required for enhancing water productivity at various scales. **2021**, 3, 219-235		
127	Past growth in agricultural productivity in South Asia. **2021**, 3, 137-156		0
126	Estimation of evapotranspiration and single and dual crop coefficients of acai palm in the Eastern Amazon (Brazil) using the Bowen ratio system. **2021**, 39, 5-22		3
125	The Plant Water Status. **2021**, 117-128		
124	Constraints of improving crop water productivity in rainfed and irrigated systems in South Asia and Sub-Saharan Africa. **2021**, 3, 197-218		
123	Water-Energy-Food Security Nexus in the Eastern Nile Basin. 103-116		8
122	Drought Stress. **2019**, 81-97		3
121	Sustainable Rice Production. **2015**, 107-121		2
120	Irrigation Scheduling for Cotton Cultivation. **2020**, 59-80		10
119	Water and Crops. **2014**, 967-978		1
118	A global and spatially explicit assessment of climate change impacts on crop production and consumptive water use. **2013**, 8, e57750		64
117	Investigation of Water Dynamics and the Effect of Evapotranspiration on Grain Yield of Rainfed Wheat and Barley under a Mediterranean Environment: A Modelling Approach. **2015**, 10, e0131360		5
116	Soil Texture and Cultivar Effects on Rice (Oryza sativa, L.) Grain Yield, Yield Components and Water Productivity in Three Water Regimes. **2016**, 11, e0150549		37
115	Temporal Variations of Water Productivity in Irrigated Corn: An Analysis of Factors Influencing Yield and Water Use across Central Nebraska. **2016**, 11, e0161944		10
114	Root-Knot Nematode (Meloidogyne javanica) Deficit Irrigation Interactions on Eggplant Cropped under Open Field Conditions. **2016**, 24, 73-78		2
113	Improving water use efficiency in grain production of winter wheat and summer maize in the North China Plain: a review. *Frontiers of Agricultural Science and Engineering*, **2016**, 3, 25	1.7	12
112	Footprinting methods for assessment of the environmental impacts of food production and processing. **2010**, 255-271		3
111	Simulating Soil Water Dynamics and Its Effects on Crop Yield Using RZWQM- CERES in the North China Plain. **2009**, 35, 1122-1130		6

110	Comparative Evaluation of Physicochemical Properties of Corn Flours Through Different Water Qualities and Irrigation Methods. **2009**, 9, 938-943		9
109	Assessing Yield, Water Use Efficiency and Evapotranspiration with Ameliorating Effect of Potassium in Wheat Crop Exposed to Regulated Deficit Irrigation. **2014**, 13, 168-175		4
108	Rice Production and Water use Efficiency for Self-Sufficiency in Malaysia: A Review. **2011**, 6, 1127-1140		17
107	Yield and Yield Components of Bread Wheat as Influenced by Water Stress, Sowing Date and Cultivar in Sokoto, Sudan Savannah, Nigeria. *American Journal of Plant Sciences*, **2013**, 04, 122-130	0.5	7
106	An Empirical Approach to Get the Vitality of a Genotype to Water Stress Tolerance in Yield and Yield Contributing Traits. *American Journal of Plant Sciences*, **2013**, 04, 999-1003	0.5	2
105	Response of Rice Varieties to Water Stress in Sokoto, Sudan Savannah, Nigeria. **2014**, 02, 68-74		10
104	The Need for Agricultural Water Management in Sub-Saharan Africa. **2016**, 08, 835-843		11
103	Wheat Yield Response to Water Deficit under Central Pivot Irrigation System Using Remote Sensing Techniques. **2015**, 03, 65-72		2
102	Sentinel-1 Radar Data Assessment to Estimate Crop Water Stress. **2017**, 05, 47-55		4
101	Investigating unproductive water losses from irrigated agricultural crops in the humid tropics through analyses of stable isotopes of water. *Hydrology and Earth System Sciences*, **2020**, 24, 3627-3642	5.5	3
100	Water savings potentials of irrigation systems: dynamic global simulation.		4
99	A global and high-resolution assessment of the green, blue and grey water footprint of wheat.		6
98	Assessing the impacts of irrigation termination periods on cotton productivity under strategic deficit irrigation regimes. *Scientific Reports*, **2021**, 11, 20102	4.9	6
97	Impact of drought stress on biochemical responses, energy, and water productivity on maize forage (Zea mays L.). **2021**, 3, 1		
96	Greenhouse gas emissions and mitigation potential of hybrid maize seed production in northwestern China. **2021**, 1		0
95	Analysis of the groundwater scenario with respect to the crop water productivity for the Betwa□Dhasan river basin, Bundelkhand using remote sensing techniques. *Journal of Earth System Science*, **2021**, 130, 1	1.8	0
94	Yield, technological quality and water footprints of wheat under Mediterranean climate conditions: A field experiment to evaluate the effects of irrigation and nitrogen fertilization strategies. *Agricultural Water Management*, **2021**, 258, 107214	5.9	2
93	How does plastic film mulching affect crop water productivity in an arid river basin?. *Agricultural Water Management*, **2021**, 258, 107218	5.9	2

92	Soil water management in India. **2010**, 29-42		
91	THE STUDY AREA2. **2010**, 49-58		
90	Marginal Water in Agriculture and Food Crisis in Sub-Saharan Africa. **2013**, 681-697		
89	Yield and Water Productivity of Chickpea (<i>Cicer arietinum</i> L.) as Influenced by Different Irrigation Regimes and Varieties under Semi Desert Climatic Conditions of Sudan. *Agricultural Sciences*, **2015**, 06, 1299-1308	0.4	0
88	Integrated Natural Resource Management in India Through Participatory Integrated Watershed Management. **2017**, 513-530		0
87	Improvement of Anti-malarial Artemisinin and Essential Oil Production in Response to Optimization of Irrigation and Nitrogen Supply to Artemisia annua L. Plant. *Research Journal of Medicinal Plant*, **2017**, 11, 68-76	0.3	
86	Remote Sensing-Based Evapotranspiration Modelling for Agricultural Water Management in the Limpopo Basin. *Advances in Geospatial Technologies Book Series*, **2018**, 50-85	0	1
85	Ung dung m□ñh toñ toi □ vˆñh gi□ tiŭ ch□trong lap quy hoach su dung □at nñg nghiep ben vung cho huyen Giong Rieng, tinh Kiñ Giang. *Tap Chi Khoa Hoc = Journal of Science*, **2019**, 55(Environment), 61	0.1	
84	Remote Sensing-Based Evapotranspiration Modelling for Agricultural Water Management in the Limpopo Basin. **2019**, 249-286		
83	Sustainable Water Management. **2019**, 133-166		
82	Farm-based Evaluation of Sustainable Alternative Irrigation Practices. *Engineering, Technology & Applied Science Research*, **2019**, 9, 4310-4314	1	1
81	LINKING CROP WATER PRODUCTIVITY TO SOIL PHYSICAL, CHEMICAL AND MICROBIAL PROPERTIES. *Frontiers of Agricultural Science and Engineering*, **2020**,	1.7	1
80	Water Resource and Use Efficiency Under Changing Climate. **2020**, 519-576		1
79	EVALUATION OF AN AUTOMATIC CONTROL SYSTEM WITH DRIP IRRIGATION SYSTEM SHOWING POOR HYDRAULIC PERFORMANCE. *INMATEH - Agricultural Engineering*, **2020**, 60, 155-162	1.2	
78	Using six vegetation indices based on observational data from remote sensing satellite to estimate effect of rice-cotton rotation on rice yield. *IOP Conference Series: Earth and Environmental Science*, 470, 012002	0.3	
77	Evapotranspiration and components of corn (Zea mays L.) under micro irrigation systems in a semi-arid environment. *Spanish Journal of Agricultural Research*, **2020**, 18, e1202	1.1	2
76	Comparison of aerobic rice cultivation using drip systems with conventional flooding. *Journal of Agricultural Science*, 1-13	1	2
75	Analyse typologique et performance productive de la culture du bl□dur irrigu□en Tunisie. *Cahiers Agricultures*, **2020**, 29, 24	0.9	1

74	Crop and Residue Management Improves Productivity and Profitability of Rice–Maize System in Salt-Affected Rainfed Lowlands of East India. *Agronomy*, **2020**, 10, 2019	3.6	3
73	Irrigation Water Use Efficiency and Economic Water Productivity of Different Plants Under Egyptian Conditions. *Springer Water*, **2020**, 205-219	0.3	
72	Integrated Duflow-Drainmod model for planning of water management operation in tidal lowland reclamation areas. *IOP Conference Series: Earth and Environmental Science*, **2021**, 871, 012035	0.3	
71	Non-energy Natural Resource Demand. *Green Energy and Technology*, **2009**, 75-100	0.6	
70	Climate Effects and Non-greenhouse Gas Emissions Associated with Transport Biofuel Life Cycles. *Green Energy and Technology*, **2009**, 101-127	0.6	
69	Improving Water Productivity for Smallholder Rice Farmers in the Upper West Region of Ghana: A Review of Sustainable Approaches. **2021**, 231-262		
68	Effect of irrigation regime and varietal selection on the yield, water productivity, energy indices and economics of rice production in the lower Gangetic Plains of Eastern India. *Agricultural Water Management*, **2021**, 262, 107327	5.9	0
67	Spatiotemporal variations of water productivity for cropland and driving factors over China during 2001–2015. *Agricultural Water Management*, **2021**, 262, 107328	5.9	2
66	Optimizing Irrigation Requirement of Soil Test-Based Fertilizer Recommendation Models for Targeted Yields of Cabbage and Broccoli in a Typic Fluvaquept Soil. *Lecture Notes in Civil Engineering*, **2022**, 729-747	0.3	
65	Soil management strategies enhanced crop yield, soil moisture, and water productivity in Nitisols of the Upper Eastern Kenya. *Environmental Challenges*, **2021**, 5, 100375	2.6	2
64	Translating open-source remote sensing data to crop water productivity improvement actions. *Agricultural Water Management*, **2022**, 261, 107373	5.9	1
63	Modeling the Effect of Planting Dates and Nitrogen Application Rates on Potatoes Water Productivity in Jordan Valley. *American Journal of Plant Sciences*, **2022**, 13, 137-146	0.5	
62	Ample Water. **2022**, 101-138		
61	A critical assessment of extreme events trends in times of global warming. *European Physical Journal Plus*, **2022**, 137, 1	3.1	7
60	Adaptation strategies to increase water productivity of wheat under changing climate. *Agricultural Water Management*, **2022**, 264, 107499	5.9	1
59	Annual Rainfall and Dryland Cotton Lint Yields in Southern High Plains of Texas. *Agricultural Sciences*, **2022**, 13, 177-200	0.4	
58	Maize grain yield and crop water productivity functions in the arid Northwest U.S.. *Agricultural Water Management*, **2022**, 264, 107513	5.9	0
57	Water-Saving Techniques and Practices for On-Farm Surface Irrigation Systems. **2021**, 3,		1

56	Agricultural Water Footprint and Precision Management. **2022**, 251-266		
55	Spatial variability assessment of irrigation performance in the Lower Usuthu Smallholder Irrigation Project (LUSIP) in Eswatini. *Modeling Earth Systems and Environment*, 1	3.2	
54	Factors determining water use efficiency in aerobic rice. **2022**, 1, 24-40		1
53	Blue-green water utilization in rice-fish cultivation towards sustainable food production.. *Ambio*, **2022**, 1	6.5	0
52	Drought perception and field-level adaptation strategies of farming households in drought-prone areas of Afghanistan. *International Journal of Disaster Risk Reduction*, **2022**, 72, 102862	4.5	2
51	Climate change impacts on crop water productivity and net groundwater use under a double-cropping system with intensive irrigation in the Haihe River Basin, China. *Agricultural Water Management*, **2022**, 266, 107560	5.9	2
50	Soil Moisture or ET-Based Smart Irrigation Scheduling: A Comparison for Sweet Corn with Sap Flow Measurements. *Journal of Irrigation and Drainage Engineering - ASCE*, **2022**, 148,	1.1	0
49	Performance Evaluation of a Minor of Upper Ganga Canal System Using Geospatial Technology and Secondary Data. *Water Science and Technology Library*, **2022**, 155-172	0.3	
48	Application of Remote Sensing and GIS in Crop Yield Forecasting and Water Productivity. *Water Science and Technology Library*, **2022**, 207-222	0.3	1
47	Climate change and modernization drive structural realignments in European grain production.. *Scientific Reports*, **2022**, 12, 7374	4.9	1
46	A framework for irrigation performance assessment using WaPOR data: the case of a sugarcane estate in Mozambique. *Hydrology and Earth System Sciences*, **2022**, 26, 2759-2778	5.5	0
45	Grain yield, actual evapotranspiration and water productivity responses of maize crop to deficit irrigation: A global meta-analysis. *Agricultural Water Management*, **2022**, 270, 107746	5.9	0
44	Sustainable Irrigation Technologies: a water-energy-food (WEF) nexus perspective towards achieving more crop per drop per joule per hectare. *Environmental Research Letters*,	6.2	
43	Optimizing Wheat Yield, Water, and Nitrogen Use Efficiency With Water and Nitrogen Inputs in China: A Synthesis and Life Cycle Assessment. *Frontiers in Plant Science*, 13,	6.2	1
42	Comparing spatial and temporal variability of the system Water Use Efficiency in a Lower Mississippi River watershed. *Journal of Hydrology: Regional Studies*, **2022**, 42, 101141	3.6	0
41	An Analytical Study for Assessing Water Productivity in Pre- and Post-Rehabilitation Period of Rural Tank System. *Advances in Civil Engineering*, **2022**, 2022, 1-10	1.3	
40	Adopting different cotton cropping systems may regulate the spatiotemporal variation in soil moisture and affect the growth, WUE and yield of cotton. *Industrial Crops and Products*, **2022**, 186, 115259	5.9	0
39	Changing patterns of soil water content and relationship with national wheat and maize production in Europe. *European Journal of Agronomy*, **2022**, 140, 126579	5	0

38	Modeling Cereals Water Productivity by Remote Sensing in Lebna Basin, Tunisia. **2022**,	
37	Closing the irrigation water productivity gap to alleviate water shortage in an endorheic basin. **2022**, 853, 158449	0
36	Water and productivity accounting using WA+ framework for sustainable water resources management: Case study of northwestern Iran. **2022**, 128, 103245	1
35	Salt Affected Soils: Global Perspectives. **2022**, 107-129	0
34	Smart sensing and automated irrigation for sustainable rice systems: A state of the art review. **2022** ,	0
33	Optimizing Planting Density to Increase Maize Yield and Water Use Efficiency and Economic Return in the Arid Region of Northwest China. **2022**, 12, 1322	1
32	Water budgeting in major rabi crops under surface irrigation in Western Indo-Gangetic Plains. **2020**, 90, 2185-2191	0
31	Crop Water Productivity Mapping and Benchmarking Using Remote Sensing and Google Earth Engine Cloud Computing. **2022**, 14, 4934	0
30	Water production function and optimal irrigation schedule for rice (Oryza sativa L.) cultivation with drip irrigation under plastic film-mulched. **2022**, 12,	0
29	A Modified Shape Model Incorporating Continuous Accumulated Growing Degree Days for Phenology Detection of Early Rice. **2022**, 14, 5337	0
28	Deep fertilization improves rice productivity and reduces ammonia emissions from rice fields in China; a meta-analysis. **2022**, 289, 108704	0
27	Pre-and post-sowing irrigation scheduling impacts on crop phenology and water productivity of cotton (Gossypium hirsutum L.) in sub-tropical north-western India. **2022**, 274, 107982	0
26	Modelling the Effect of Irrigation Deficit on Maize Growth with Logistic Regression. 1-13	0
25	Relationship of Maize Yield to Climatic and Environmental Factors under Deficit Irrigation: A Quantitative Review. **2022**, 2022, 1-12	0
24	Simulation-optimization based real-time irrigation scheduling: A human-machine interactive method enhanced by data assimilation. **2023**, 276, 108059	0
23	Estimating crop water requirements for irrigation scheduling of tomato using Aquacrop 5.0 and Cropwat 8.0 models under scarcity and unreliability of rainfall in Harare. **2022**, 18, 1089-1101	0
22	Evaluation of Water Productivity in the Main Areas of Potato Cultivation in Iran.	0
21	Alternate wet and dry irrigation technology as a sustainable water management and disease vector control tool.	0

20	Effects of irrigation levels and nitrogen fertilizer rate on grain yield of wheat (Triticum aestivum) at Amibara, Middle Awash, Ethiopia. **2022**, 13, 11-16	0
19	A Comprehensive Review of the Multiple Uses of Water in Aquaculture-Integrated Agriculture Based on International and National Experiences. **2023**, 15, 367	2
18	Wheat phenology detection with the methodology of classification based on the time-series UAV images. **2023**, 292, 108798	1
17	Assessing the biophysical factors affecting irrigation performance in rice cultivation using remote sensing derived information. **2023**, 278, 108124	0
16	Effects of Drip Irrigation and Top Dressing Nitrogen Fertigation on Maize Grain Yield in Central Poland. **2023**, 13, 360	1
15	Phenology-Based Remote Sensing Assessment of Crop Water Productivity. **2023**, 15, 329	0
14	Moving from measurement to governance of shared groundwater resources. **2023**, 1, 30-36	0
13	Green, blue and economic water productivity: a water footprint perspective from the Upper Awash Basin, Central Ethiopia.	0
12	Evaluation of Photosynthetic Parameters and Their Relationships with Grain Yield in Red Bean Lines in Field Conditions. **2021**, 13, 63-76	0
11	Simulation of water productivity of wheat in northwestern Bangladesh using multi-satellite data. **2023**, 281, 108242	0
10	Evaluation of Agro-Physiological Characteristics and Drought Tolerance in Some of Durum Wheat Breeding Genotypes. **2020**, 12, 117-135	0
9	Estimating evapotranspiration and yield of wheat and maize croplands through a remote sensing-based model. **2023**, 282, 108294	0
8	Droughts, Deluges, and (River) Diversions: Valuing Market-Based Water Reallocation. **2023**, 113, 430-471	0
7	Water use efficiency: A review of spatial and temporal variability. **2022**,	0
6	Effect of Furrow Irrigation Systems and Irrigation Levels on Maize Agronomy and Water Use Efficiency in Arba Minch, Southern, Ethiopia.	0
5	Advances in Micro-Irrigation Practices for Improving Water Use Efficiency in Dryland Agriculture. **2023**, 157-176	0
4	Enhancing Agricultural Water Productivity Using Deficit Irrigation Practices in Water-Scarce Regions. **2023**, 177-206	0
3	Evaluating the Water Productivity Management Performance in Irrigation Networks (Case Study: Doosti Irrigation Network- Khorasan Razavi). **2021**, 12, 251-259	0

2	Soil management for salt-affected soil. **2023**, 99-128	0
1	Evaluation of IoT based smart drip irrigation and ETc based system for sweet corn. **2023**, 5, 100248	0