# Review of measured crop water productivity values for maize

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| # | Article | IF | Citations |
|---|---|---|---|
| 1 | RESPONSE OF SOYBEAN TO DEFICIT IRRIGATION IN THE SEMI-ARID ENVIRONMENT OF WEST-CENTRAL NEBRASKA. Transactions of the American Society of Agricultural Engineers, 2005, 48, 2189-2203. | 0.9 | 59 |
| 2 | Assessment of water productivity trends for parastatal agricultural operationsâ€"case of Middle Sabi Estate, Zimbabwe. Physics and Chemistry of the Earth, 2005, 30, 767-771. | 1.2 | 3 |
| 3 | Which crop and which drop, and the scope for improvement of water productivity. Agricultural Water Management, 2005, 73, 113-130. | 2.4 | 66 |
| 4 | Evapotranspiration and Crop Water Productivity: Making Sense of the Yield-ET Relationship. , 2005, , 1. | | 5 |
| 5 | Deficit irrigation for reducing agricultural water use. Journal of Experimental Botany, 2006, 58, 147-159. | 2.4 | 1,240 |
| 6 | Wheat yield response to line-source sprinkler irrigation in the arid Southeast Anatolia region of Turkey. Agricultural Water Management, 2006, 81, 59-76. | 2.4 | 36 |
| 7 | 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. | 2.4 | 101 |
| 8 | Water productivity analysis of irrigated crops in Sirsa district, India. Agricultural Water Management, 2006, 82, 253-278. | 2.4 | 99 |
| 9 | Application of a rice growth and water balance model in an irrigated semi-arid subtropical environment. Agricultural Water Management, 2006, 83, 51-57. | 2.4 | 49 |
| 10 | 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. | 2.4 | 264 |
| 11 | Combining remote sensing-simulation modeling and genetic algorithm optimization to explore water management options in irrigated agriculture. Agricultural Water Management, 2006, 83, 221-232. | 2.4 | 87 |
| 12 | Yield response of corn to deficit irrigation in a semiarid climate. Agricultural Water Management, 2006, 84, 101-112. | 2.4 | 222 |
| 13 | Crop water productivity of cotton (Gossypium hirsutum L.)â€"wheat (Triticum aestivum L.) system as influenced by deficit irrigation, soil texture and precipitation. Agricultural Water Management, 2006, 84, 137-146. | 2.4 | 105 |
| 14 | 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. | 2.4 | 75 |
| 15 | Assessing crop water productivity from field to regional scale. Agricultural Water Management, 2006, 86, 30-39. | 2.4 | 48 |
| 16 | Assessing Options to Increase Water Productivity in Irrigated River Basins Using Remote Sensing and Modelling Tools. International Journal of Water Resources Development, 2006, 22, 115-133. | 1.2 | 49 |
| 17 | Agrometeorology and water needs of crops. Italian Journal of Agronomy, 2006, 1, 587. | 0.4 | 0 |
| 18 | Yield Response of Corn to Timing of a Limited Seasonal Irrigation Depth (150 mm) with Subsurface Drip Irrigation. , 2006, , 1. | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Comparison of irrigation strategies for surface-irrigated corn in West Central Nebraska. Irrigation Science, 2006, 24, 257-265. | 1.3 | 23 |
| 20 | Evapotranspiration of Deficit Irrigated Sorghum. , 2007, , 1. | | 1 |
| 21 | GEPIC â€“ modelling wheat yield and crop water productivity with high resolution on a global scale. Agricultural Systems, 2007, 94, 478-493. | 3.2 | 341 |
| 22 | Exploring options to grow rice using less water in northern China using a modelling approach. Agricultural Water Management, 2007, 88, 23-33. | 2.4 | 130 |
| 23 | Climate and irrigation water use of a mountain oasis in northern Oman. Agricultural Water Management, 2007, 89, 1-14. | 2.4 | 35 |
| 24 | SEBAL for detecting spatial variation of water productivity and scope for improvement in eight irrigated wheat systems. Agricultural Water Management, 2007, 89, 287-296. | 2.4 | 106 |
| 25 | Optimizing soil moisture regime to increase water use efficiency of sugarcane (Saccharum spp. hybrid) Tj ETQq0 0 0 rgBT /Overlock 10 T | 2.4 | 41 |
| 26 | Making water productivity operationalâ€”A concept of agricultural water productivity exemplified at a wheatâ€“maize cropping pattern in the North China plain. Agricultural Water Management, 2007, 91, 11-23. | 2.4 | 23 |
| 27 | 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. | 2.4 | 48 |
| 28 | Twenty-five years modeling irrigated and drained soils: State of the art. Agricultural Water Management, 2007, 92, 111-125. | 2.4 | 119 |
| 29 | Yield and water productivity of riceâ€“wheat on raised beds at New Delhi, India. Field Crops Research, 2007, 100, 229-239. | 2.3 | 98 |
| 30 | Rice and Water. Advances in Agronomy, 2007, 92, 187-237. | 2.4 | 442 |
| 31 | Water scarcity and food trade in the Southern and Eastern Mediterranean countries. Food Policy, 2007, 32, 585-605. | 2.8 | 71 |
| 32 | Much Improved Irrigation Use Efficiency in an Intensive Wheatâ€Maize Double Cropping System in the North China Plain. Journal of Integrative Plant Biology, 2007, 49, 1517-1526. | 4.1 | 24 |
| 33 | Adaptation of crops to climate change through genotypic responses to mean and extreme temperatures. Agriculture, Ecosystems and Environment, 2007, 119, 190-204. | 2.5 | 149 |
| 34 | Increasing water productivity with improved N fertilizer management. Irrigation and Drainage Systems, 2008, 22, 193-207. | 0.5 | 23 |
| 35 | Estimation of paddy water productivity (WP) using hydrological model: an experimental study. Paddy and Water Environment, 2008, 6, 327-339. | 1.0 | 24 |
| 36 | Water use efficiency of crops cultivated in the Mediterranean region: Review and analysis. European Journal of Agronomy, 2008, 28, 493-507. | 1.9 | 173 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Enhancing water productivity at the irrigation system level: A geospatial hydrology application in the Yellow River Basin. Journal of Arid Environments, 2008, 72, 1046-1063. | 1.2 | 24 |
| 38 | Crop yield reduction in the tropics under climate change: Processes and uncertainties. Agricultural and Forest Meteorology, 2008, 148, 343-356. | 1.9 | 156 |
| 39 | Energy and water balance measurements for water productivity analysis in irrigated mango trees, Northeast Brazil. Agricultural and Forest Meteorology, 2008, 148, 1524-1537. | 1.9 | 67 |
| 40 | 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. | 2.4 | 105 |
| 41 | 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. | 2.4 | 23 |
| 42 | Yield and growth characteristics for cotton under various irrigation regimes on sandy soil. Agricultural Water Management, 2008, 95, 69-76. | 2.4 | 60 |
| 43 | Increasing water productivity of irrigated crops under limited water supply at field scale. Agricultural Water Management, 2008, 95, 89-102. | 2.4 | 92 |
| 44 | Water quality implications of raising crop water productivity. Agricultural Water Management, 2008, 95, 825-835. | 2.4 | 26 |
| 45 | 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. | 2.4 | 94 |
| 46 | Field water supply:yield relationships of grain sorghum grown in three USA Southern Great Plains soils. Agricultural Water Management, 2008, 95, 1303-1313. | 2.4 | 24 |
| 47 | Water Productivity Mapping (WPM) Using Landsat ETM+ Data for the Irrigated Croplands of the Syrdarya River Basin in Central Asia. Sensors, 2008, 8, 8156-8180. | 2.1 | 83 |
| 48 | Corn yield response to partial rootzone drying and deficit irrigation strategies applied with drip system. Plant, Soil and Environment, 2009, 55, 494-503. | 1.0 | 47 |
| 49 | Soil Water Management in India. Journal of Crop Improvement, 2009, 23, 55-70. | 0.9 | 4 |
| 50 | Organic cotton: production practices and post-harvest considerations. , 2009, , 231-301. | | 15 |
| 51 | Climate change impacts on crop yield, crop water productivity and food security â€“ A review. Progress in Natural Science: Materials International, 2009, 19, 1665-1674. | 1.8 | 676 |
| 52 | 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. | 1.9 | 58 |
| 53 | Assessment of wheat and maize water productivities and production function for cropping system decisions in arid and semiarid regions. Irrigation and Drainage, 2009, 58, 105-115. | 0.8 | 21 |
| 54 | Water productivity of irrigated wheat and maize in the Karkheh River basin of Iran. Irrigation and Drainage, 2010, 59, 264-276. | 0.8 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Combining remote sensing and economic analysis to support decisions that affect water productivity. Irrigation Science, 2009, 27, 243-251. | 1.3 | 35 |
| 56 | A parsimonious cropâ€water productivity index: an application to Brazil. Area, 2009, 41, 94-106. | 1.0 | 5 |
| 57 | A GIS-based tool for modelling large-scale crop-water relations. Environmental Modelling and Software, 2009, 24, 411-422. | 1.9 | 148 |
| 58 | Assessing economic impacts of deficit irrigation as related to water productivity and water costs. Biosystems Engineering, 2009, 103, 536-551. | 1.9 | 108 |
| 59 | Improving Productivity to Face Water Scarcity in Irrigated Agriculture. , 2009, , 122-143. | | 4 |
| 60 | Water productivity (WP) in reservoir irrigated schemes in the upper east region (UER) of Ghana. Physics and Chemistry of the Earth, 2009, 34, 324-328. | 1.2 | 37 |
| 61 | Reviewing SEBAL input parameters for assessing evapotranspiration and water productivity for the Low-Middle SÃ£o Francisco River basin, Brazil. Agricultural and Forest Meteorology, 2009, 149, 477-490. | 1.9 | 89 |
| 62 | Different drip irrigation regimes affect cotton yield, water use efficiency and fiber quality in western Turkey. Agricultural Water Management, 2009, 96, 111-120. | 2.4 | 148 |
| 63 | 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. | 2.4 | 94 |
| 64 | The effect of salinity on water productivity of wheat under deficit irrigation above shallow groundwater. Agricultural Water Management, 2009, 96, 517-524. | 2.4 | 50 |
| 65 | 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. | 2.4 | 57 |
| 66 | Deficit irrigation as an on-farm strategy to maximize crop water productivity in dry areas. Agricultural Water Management, 2009, 96, 1275-1284. | 2.4 | 706 |
| 67 | Different indices to characterize water use pattern of irrigated cauliflower (Brassica oleracea L. var.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 2.4 | 7 |
| 68 | Increasing productivity in irrigated agriculture: Agronomic constraints and hydrological realities. Agricultural Water Management, 2009, 96, 1517-1524. | 2.4 | 268 |
| 69 | Spatial and temporal trends of water productivity in the lower Mekong River Basin. Agricultural Water Management, 2009, 96, 1567-1578. | 2.4 | 30 |
| 70 | Integrated management of irrigation water and fertilizers for wheat crop using field experiments and simulation modeling. Agricultural Water Management, 2009, 96, 1532-1540. | 2.4 | 53 |
| 71 | Global consumptive water use for crop production: The importance of green water and virtual water. Water Resources Research, 2009, 45, . | 1.7 | 203 |
| 72 | ENSO-based climate variability affects water use efficiency of rainfed cotton grown in the southeastern USA. Agriculture, Ecosystems and Environment, 2010, 139, 629-635. | 2.5 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | A remote sensing-based irrigation performance assessment: a case study of the Office du Niger in Mali. Irrigation Science, 2010, 28, 371-385. | 1.3 | 50 |
| 74 | Performance assessment of an irrigation scheme using indicators determined with remote sensing techniques. Irrigation Science, 2010, 28, 461-477. | 1.3 | 42 |
| 75 | Simulation of salt and water movement and estimation of water productivity of rice crop irrigated with saline water. Paddy and Water Environment, 2010, 8, 333-346. | 1.0 | 50 |
| 76 | Quantifying blue and green virtual water contents in global crop production as well as potential production losses without irrigation. Journal of Hydrology, 2010, 384, 198-217. | 2.3 | 570 |
| 77 | The significance of local water resources captured in small reservoirs for crop production â€“ A global-scale analysis. Journal of Hydrology, 2010, 384, 264-275. | 2.3 | 182 |
| 78 | Virtual water content of temperate cereals and maize: Present and potential future patterns. Journal of Hydrology, 2010, 384, 218-231. | 2.3 | 219 |
| 79 | 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. | 1.9 | 41 |
| 80 | Effects of deficit irrigation regimes on the yield and growth of oilseed rape (Brassica napus L.). Biosystems Engineering, 2010, 105, 388-394. | 1.9 | 25 |
| 81 | 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. | 1.9 | 295 |
| 82 | The Mekong: a diverse basin facing the tensions of development. Water International, 2010, 35, 573-593. | 0.4 | 17 |
| 83 | Application of remote sensing for estimating crop water requirements, yield and water productivity of wheat in the Gezira Scheme. International Journal of Remote Sensing, 2010, 31, 4281-4294. | 1.3 | 14 |
| 84 | Evaluation of Waterâ€“Nitrogen Schemes for Rice in Iran, Using ORYZA2000 Model. Communications in Soil Science and Plant Analysis, 2010, 41, 2459-2477. | 0.6 | 12 |
| 85 | Simulating water use and N response of winter wheat in the irrigated floodplains of Northwest Uzbekistan. Field Crops Research, 2010, 116, 239-251. | 2.3 | 25 |
| 86 | Irrigation strategies to improve the water use efficiency of wheatâ€“maize double cropping systems in North China Plain. Agricultural Water Management, 2010, 97, 1165-1174. | 2.4 | 144 |
| 87 | Improving agricultural water productivity: Between optimism and caution. Agricultural Water Management, 2010, 97, 528-535. | 2.4 | 610 |
| 88 | 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. | 2.4 | 71 |
| 89 | Investing in water for food, ecosystems, and livelihoods. Agricultural Water Management, 2010, 97, 493-494. | 2.4 | 9 |
| 90 | Assessing yield optimization and water reduction potential for summer-sown and spring-sown maize in Pakistan. Agricultural Water Management, 2010, 97, 731-737. | 2.4 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Water resources and water use efficiency in the North China Plain: Current status and agronomic management options. Agricultural Water Management, 2010, 97, 1102-1116. | 2.4 | 194 |
| 92 | Assessing grain crop water productivity of China using a hydro-model-coupled-statistics approach. Agricultural Water Management, 2010, 97, 1077-1092. | 2.4 | 26 |
| 93 | 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. | 2.4 | 24 |
| 94 | 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. | 2.4 | 124 |
| 95 | Irrigation restriction effects on water use efficiency and osmotic adjustment in Aloe Vera plants (Aloe barbadensis Miller). Agricultural Water Management, 2010, 97, 1564-1570. | 2.4 | 36 |
| 96 | WATPRO: A remote sensing based model for mapping water productivity of wheat. Agricultural Water Management, 2010, 97, 1628-1636. | 2.4 | 40 |
| 97 | A global benchmark map of water productivity for rainfed and irrigated wheat. Agricultural Water Management, 2010, 97, 1617-1627. | 2.4 | 91 |
| 98 | Using AquaCrop to derive deficit irrigation schedules. Agricultural Water Management, 2010, 98, 213-216. | 2.4 | 88 |
| 99 | A comparison of canopy evapotranspiration for maize and two perennial grasses identified as potential bioenergy crops. GCB Bioenergy, 2010, 2, 157-168. | 2.5 | 55 |
| 100 | Yellow River basin: living with scarcity. Water International, 2010, 35, 681-701. | 0.4 | 68 |
| 101 | Effects of Crop Density and Irrigation Management on Water Productivity of Rice Production in Northern Iran: Field and Modeling Approach. Communications in Soil Science and Plant Analysis, 2011, 42, 2085-2099. | 0.6 | 13 |
| 102 | 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. | 2.4 | 39 |
| 103 | Changes in evapotranspiration over irrigated winter wheat and maize in North China Plain over three decades. Agricultural Water Management, 2011, 98, 1097-1104. | 2.4 | 136 |
| 104 | Evapotranspiration and water use of full and deficit irrigated cotton in the Mediterranean environment in northern Syria. Agricultural Water Management, 2011, 98, 1239-1248. | 2.4 | 70 |
| 105 | Agricultural water productivity assessment for the Yellow River Basin. Agricultural Water Management, 2011, 98, 1297-1306. | 2.4 | 25 |
| 106 | Performance assessment of irrigation water management in old lands of the Nile delta of Egypt. Irrigation and Drainage Systems, 2011, 25, 215-236. | 0.5 | 35 |
| 107 | Estimation of agricultural water productivity in Qazvin plain using modis and Avhrr images. Pollack Periodica, 2011, 6, 93-105. | 0.2 | 0 |
| 108 | Effect of different levels of water deficit on rapeseed (Brassica napus L.) crop. Ciencia E Agrotecnologia, 2011, 35, 672-684. | 1.5 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | The Situation for Quinoa and Its Production in Southern Bolivia: From Economic Success to Environmental Disaster. Journal of Agronomy and Crop Science, 2011, 197, 390-399. | 1.7 | 127 |
| 110 | Soil water content, maize yield and its stability as affected by tillage and crop residue management in rainfed semi-arid highlands. Plant and Soil, 2011, 344, 73-85. | 1.8 | 96 |
| 111 | A simple bund plugging technique for improving water productivity in wetland rice. Soil and Tillage Research, 2011, 112, 66-75. | 2.6 | 27 |
| 113 | From rainfed agriculture to stress-avoidance irrigation: II. Sustainability, crop yield, and profitability. Advances in Water Resources, 2011, 34, 272-281. | 1.7 | 37 |
| 114 | Producing more food with less water in a changing world: assessment of water productivity in 10 major river basins. Water International, 2011, 36, 42-62. | 0.4 | 61 |
| 115 | WATER AND NITROGEN-BALANCE AND -USE EFFICIENCY IN A RICE (ORYZA SATIVA)â€"WHEAT (TRITICUM AESTIVUM) CROPPING SYSTEM AS INFLUENCED BY MANAGEMENT INTERVENTIONS: FIELD AND SIMULATION STUDY. Experimental Agriculture, 2011, 47, 609-628. | 0.4 | 13 |
| 116 | Direct Seeding of Rice. Advances in Agronomy, 2011, 111, 297-413. | 2.4 | 497 |
| 117 | Yield and water use response of winter wheat to winter irrigation in the North China Plain. Journal of Soils and Water Conservation, 2011, 66, 104-113. | 0.8 | 19 |
| 118 | Phenology-based Crop Classification Algorithm and its Implications on Agricultural Water Use Assessments in Californiaâ€™s Central Valley. Photogrammetric Engineering and Remote Sensing, 2012, 78, 799-813. | 0.3 | 52 |
| 119 | Improving crop production in the arid Mediterranean climate. Field Crops Research, 2012, 128, 34-47. | 2.3 | 136 |
| 120 | Study on influential factors of crop water productivity in irrigable land of arid area oasis. , 2012, , . | | 0 |
| 121 | A regional comparison of water use efficiency for miscanthus, switchgrass and maize. Agricultural and Forest Meteorology, 2012, 164, 82-95. | 1.9 | 120 |
| 122 | Efficiency and productivity terms for water management: A matter of contextual relativism versus general absolutism. Agricultural Water Management, 2012, 108, 9-15. | 2.4 | 118 |
| 123 | The best farm-level irrigation strategy changes seasonally with fluctuating water availability. Agricultural Water Management, 2012, 103, 33-42. | 2.4 | 34 |
| 124 | Marginal analysis of water productivity function of tomato crop grown under different irrigation regimes and mulch managements. Agricultural Water Management, 2012, 104, 121-127. | 2.4 | 18 |
| 125 | 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. | 2.4 | 35 |
| 126 | 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. | 2.4 | 39 |
| 127 | Improving Water Use Efficiency for Sustainable Agriculture. , 2012, , 167-211. | | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 128 | Quantifying evapotranspiration of a rainfed potato crop in South-eastern Canada using eddy covariance techniques. Agricultural Water Management, 2012, 113, 45-56. | 2.4 | 36 |
| 129 | Water productivity responses and adaptation to climate change in the lower Mekong basin. Water International, 2012, 37, 53-74. | 0.4 | 10 |
| 130 | Improving crop productivity and resource use efficiency to ensure food security and environmental quality in China. Journal of Experimental Botany, 2012, 63, 13-24. | 2.4 | 465 |
| 131 | A Distributed Cotton Growth Model Developed from GOSSYM and Its Parameter Determination. Agronomy Journal, 2012, 104, 661-674. | 0.9 | 16 |
| 132 | Mechanistic Insight of Water Stress Induced Aggregation in Wheat (Triticum aestivum L.) Quality: The Protein Paradigm Shift. Notulae Scientia Biologicae, 2012, 4, 32-38. | 0.1 | 15 |
| 133 | Water Use and Water Productivity of Sugarbeet, Malt Barley, and Potato as Affected by Irrigation Frequency. Agronomy Journal, 2012, 104, 1510-1516. | 0.9 | 11 |
| 134 | Assessment of the Irrigation Advisory Servicesâ€™ Recommendations and Farmersâ€™ Irrigation Management: A Case Study in Southern Spain. Water Resources Management, 2012, 26, 2397-2419. | 1.9 | 43 |
| 135 | Impact of sustained deficit irrigation on spearmint (Mentha spicata L.) biomass production, oil yield, and oil quality. Irrigation Science, 2012, 30, 213-219. | 1.3 | 22 |
| 136 | Deficit irrigation: An option to mitigate arsenic load of rice grain in West Bengal, India. Agriculture, Ecosystems and Environment, 2012, 146, 147-152. | 2.5 | 53 |
| 137 | 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. | 1.9 | 32 |
| 138 | Assessing impacts of agricultural water interventions in the Kothapally watershed, Southern India. Hydrological Processes, 2012, 26, 387-404. | 1.1 | 98 |
| 139 | EFFECT OF DIFFERENT QUANTITIES OF SUPPLEMENTAL IRRIGATION AND ITS SALINITY ON YIELD AND WATER USE OF WINTER WHEAT (TRITICUM AESTIVUM). Irrigation and Drainage, 2012, 61, 89-98. | 0.8 | 13 |
| 140 | An Empirical Assessment of On-Farm Water Productivity using Groundwater in a Semi-Arid Indian Watershed. Water Resources Management, 2012, 26, 475-498. | 1.9 | 3 |
| 141 | Modelling economic impacts of deficit irrigated maize in Brazil with consideration of different rainfall regimes. Biosystems Engineering, 2013, 116, 97-110. | 1.9 | 7 |
| 142 | Water use efficiency of dryland wheat in the Loess Plateau in response to soil and crop management. Field Crops Research, 2013, 151, 9-18. | 2.3 | 130 |
| 143 | Application of the CSM-CERES-Rice model for evaluation of plant density and irrigation management of transplanted rice for an irrigated semiarid environment. Irrigation Science, 2013, 31, 491-506. | 1.3 | 46 |
| 144 | Lower responsiveness of canopy evapotranspiration rate than of leaf stomatal conductance to openâ€air <scp><scp>CO<sub>2</sub></scp></scp> elevation in rice. Global Change Biology, 2013, 19, 2444-2453. | 4.2 | 31 |
| 145 | Wheat yield response to line source sprinkler irrigation and soil management practices on medium-textured shallow soils of arid environment. Irrigation Science, 2013, 31, 1185-1197. | 1.3 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 146 | Assessment of crop growth and water productivity for five C3 species in semi-arid Inner Mongolia. Agricultural Water Management, 2013, 122, 28-38. | 2.4 | 39 |
| 147 | Yield and water productivity of peach trees under continuous deficit irrigation and high evaporative demand. Biological Agriculture and Horticulture, 2013, 29, 29-37. | 0.5 | 11 |
| 148 | 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. | 2.4 | 120 |
| 149 | WATER PRODUCTIVITY OF IRRIGATED WHEAT IN THE MAROON IRRIGATION NETWORK OF IRAN. Irrigation and Drainage, 2013, 62, 604-612. | 0.8 | 1 |
| 150 | Selection of Hyperspectral Narrowbands (HNBs) and Composition of Hyperspectral Twoband Vegetation Indices (HVIs) for Biophysical Characterization and Discrimination of Crop Types Using Field Reflectance and Hyperion/EO-1 Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 427-439. | 2.3 | 156 |
| 151 | Modelling of soil salinity and halophyte crop production. Environmental and Experimental Botany, 2013, 92, 186-196. | 2.0 | 14 |
| 152 | Estimation of Water Consumption of Lowland Rice in Tropical Area based on Heterogeneous Cropping Calendar Using Remote Sensing Technology. Procedia Environmental Sciences, 2013, 17, 298-307. | 1.3 | 10 |
| 155 | Water-use efficiency and productivity trends in Australian irrigated cotton: a review. Crop and Pasture Science, 2013, 64, 1033. | 0.7 | 83 |
| 156 | Inter-district rice water productivity differences in Bangladesh: An empirical exploration and implications. Ecological Economics, 2013, 93, 210-218. | 2.9 | 35 |
| 157 | Transforming agriculture in China: From solely high yield to both high yield and high resource use efficiency. Global Food Security, 2013, 2, 1-8. | 4.0 | 100 |
| 158 | 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 LeÃ³n, Spain. Agricultural Water Management, 2013, 124, 77-84. | 2.4 | 22 |
| 159 | Water use efficiency of perennial and annual bioenergy crops in central Illinois. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 581-589. | 1.3 | 71 |
| 160 | The effects of potassium fertilization on waterâ€use efficiency in crop plants. Journal of Plant Nutrition and Soil Science, 2013, 176, 355-374. | 1.1 | 89 |
| 161 | Contribution of sorghum to productivity of small-holder irrigation schemes: On-farm research in the Senegal River Valley, Mauritania. Agricultural Systems, 2013, 115, 72-82. | 3.2 | 11 |
| 162 | Assessment of Equity and Adequacy of Water Delivery in Irrigation Systems Using Remote Sensing-Based Indicators in Semi-Arid Region, Morocco. Water Resources Management, 2013, 27, 4697-4714. | 1.9 | 45 |
| 163 | Drivers of change in agricultural water productivity and its improvement at basin scale in developing economies. Water International, 2013, 38, 312-325. | 0.4 | 52 |
| 164 | Seed priming improves irrigation water use efficiency, yield, and yield components of late-sown wheat under limited water conditions. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2013, 37, 534-544. | 0.8 | 15 |
| 165 | Improvements in crop water productivity increase water sustainability and food securityâ€"a global analysis. Environmental Research Letters, 2013, 8, 024030. | 2.2 | 187 |

| # | Article | IF | Citations |
|---|---|---|---|
| 166 | Conservation tillage and water availability for wheat in the dryland of central Chile. Journal of Soil Science and Plant Nutrition, 2013, , 0-0. | 1.7 | 11 |
| 167 | Deficit irrigation scheduling for potato production in North Gondar, Ethiopia. African Journal of Agricultural Research Vol Pp, 2013, 8, 1144-1154. | 0.2 | 10 |
| 168 | Effect of different water depths on growth and yield of rice crop. African Journal of Agricultural Research Vol Pp, 2013, 8, 4654-4659. | 0.2 | 8 |
| 169 | Replacing Fallow with Continuous Cropping Reduces Crop Water Productivity of Semiarid Wheat. Agronomy Journal, 2013, 105, 199-207. | 0.9 | 55 |
| 170 | Productivity of Water in Large Rice (Paddy) Irrigation Schemes in the Upper Catchment of the Great Ruaha River Basin, Tanzania. , 0, , . | | 5 |
| 171 | Food production: a mega water challenge. , 0, , 142-171. | | 0 |
| 172 | Monitoring of Irrigation Schemes by Remote Sensing: Phenology versus Retrieval of Biophysical Variables. Remote Sensing, 2014, 6, 5815-5851. | 1.8 | 24 |
| 173 | Do Estimates of Water Productivity Enhance Understanding of Farm-Level Water Management?. Water (Switzerland), 2014, 6, 778-795. | 1.2 | 33 |
| 174 | Response of durum wheat varieties to water in semi-arid Algeria. African Journal of Agricultural Research Vol Pp, 2014, 9, 2880-2893. | 0.2 | 5 |
| 175 | The effect of combined application of super absorbent polymer and fulvic acid on growth and water use efficiency of pot cultured corn*. , 2014, , . | | 0 |
| 176 | Investigation of deficit irrigation strategies combining SVAT-modeling, optimization and experiments. Environmental Earth Sciences, 2014, 72, 4901-4915. | 1.3 | 10 |
| 177 | Water footprint benchmarks for crop production: A first global assessment. Ecological Indicators, 2014, 46, 214-223. | 2.6 | 271 |
| 178 | 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, . | 0.6 | 20 |
| 179 | Strategies for Sustainable Plant Food Production: Facing the Current Agricultural Challengesâ€"Agriculture for Today and Tomorrow. , 2014, , 1-50. | | 3 |
| 180 | Optimizing Irrigation Scheduling of Summer Corn (<i>Zea mays</i> <i>l.</i>) in a Coastal Saline Field, China. Advanced Materials Research, 0, 1030-1032, 673-678. | 0.3 | 0 |
| 181 | Effect of Irrigation and Preplant Nitrogen Fertilizer Source on Maize in the Southern Great Plains. International Journal of Agronomy, 2014, 2014, 1-10. | 0.5 | 25 |
| 182 | Four decades of rice water productivity in Bangladesh: A spatio-temporal analysis of district level panel data. Economic Analysis and Policy, 2014, 44, 51-64. | 3.2 | 7 |
| 183 | Impact of the shrinking winter wheat sown area on agricultural water consumption in the Hebei Plain. Journal of Chinese Geography, 2014, 24, 313-330. | 1.5 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 185 | Exploring synergies and tradeoffs: Energy, water, and economic implications of water reuse in rice-based irrigation systems. Applied Energy, 2014, 114, 889-900. | 5.1 | 25 |
| 186 | Water use efficiency of dryland maize in the Loess Plateau of China in response to crop management. Field Crops Research, 2014, 163, 55-63. | 2.3 | 144 |
| 187 | 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. | 2.4 | 37 |
| 188 | Experimental valuation of Dutch water resources according to SNA and SEEA. Water Resources and Economics, 2014, 7, 66-81. | 0.9 | 26 |
| 189 | Irrigation water productivity in Cambodian rice systems. Agricultural Economics (United Kingdom), 2014, 45, 421-430. | 2.0 | 10 |
| 190 | Can integrated aquaculture-agriculture (IAA) produce â€œmore crop per dropâ€?. Food Security, 2014, 6, 767-779. | 2.4 | 48 |
| 191 | Improving Rice-Based Cropping Pattern Through Soil Moisture and Integrated Nutrient Management in Mid-Tropical Plain Zone of Tripura, India. Rice Science, 2014, 21, 299-304. | 1.7 | 14 |
| 192 | Livestock water productivity: feed resourcing, feeding and coupled feed-water resource data bases. Animal Production Science, 2014, 54, 1584. | 0.6 | 14 |
| 193 | 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. | 2.4 | 58 |
| 194 | Application of water footprint combined with a unified virtual crop pattern to evaluate crop water productivity in grain production in China. Science of the Total Environment, 2014, 497-498, 1-9. | 3.9 | 33 |
| 195 | Evaluation of Very High Soil-Water Tension Threshold Values in Sensor-Based Deficit Irrigation Systems. Journal of Irrigation and Drainage Engineering - ASCE, 2014, 140, . | 0.6 | 8 |
| 196 | Producing more grain with lower environmental costs. Nature, 2014, 514, 486-489. | 13.7 | 1,292 |
| 198 | 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. | 0.6 | 3 |
| 199 | Groundwater Use for Irrigation and its Productivity: Status and Opportunities for Crop Intensification for Food Security in Bangladesh. Water Resources Management, 2014, 28, 1415-1429. | 1.9 | 45 |
| 200 | Comparison of ET estimations by the three-temperature model, SEBAL model and eddy covariance observations. Journal of Hydrology, 2014, 519, 769-776. | 2.3 | 28 |
| 201 | Interactive effects of free-air CO2 enrichment and drought stress on maize growth. European Journal of Agronomy, 2014, 52, 11-21. | 1.9 | 115 |
| 202 | Integrated spatialâ€“temporal analysis of crop water productivity of winter wheat in Hai Basin. Agricultural Water Management, 2014, 133, 24-33. | 2.4 | 28 |
| 203 | An innovative remote sensing based reference evapotranspiration method to support irrigation water management under semi-arid conditions. Agricultural Water Management, 2014, 131, 135-145. | 2.4 | 48 |

| # | Article | IF | Citations |
|---|---|---|---|
| 204 | Assessing crop yield and crop water productivity and optimizing irrigation scheduling of winter wheat and summer maize in the Haihe plain using SWAT model. Hydrological Processes, 2014, 28, 2478-2498. | 1.1 | 54 |
| 205 | Evaluation of water movement and water losses in a direct-seeded-rice field experiment using Hydrus-1D. Agricultural Water Management, 2014, 142, 38-46. | 2.4 | 86 |
| 206 | Determining the Economic Value of Water. , 0, , . | | 66 |
| 208 | COMPARISON OF STATE-MANAGED AND FARMER-MANAGED IRRIGATION SYSTEMS IN PUNJAB, PAKISTAN. Irrigation and Drainage, 2014, 63, 628-639. | 0.8 | 4 |
| 209 | Biomass Modeling of Four Leading World Crops Using Hyperspectral Narrowbands in Support of HyspIRI Mission. Photogrammetric Engineering and Remote Sensing, 2014, 80, 757-772. | 0.3 | 14 |
| 210 | Soil mulching significantly enhances yields and water and nitrogen use efficiencies of maize and wheat: a meta-analysis. Scientific Reports, 2015, 5, 16210. | 1.6 | 249 |
| 211 | Managing Green Water in Dryland Agriculture. Agronomy Journal, 2015, 107, 1544-1553. | 0.9 | 57 |
| 212 | Regional Blue and Green Water Balances and Use by Selected Crops in the<scp> U.S.</scp>. Journal of the American Water Resources Association, 2015, 51, 1626-1642. | 1.0 | 16 |
| 213 | Optimal Irrigation Scheduling, Irrigation Control and Drip Line Layout to Increase Water Productivity and Profit in Subsurface Dripâ€Irrigated Agriculture. Irrigation and Drainage, 2015, 64, 501-518. | 0.8 | 16 |
| 214 | Irrigation Management Reform in Northern China: Case Studies in Shanxi Province. Irrigation and Drainage, 2015, 64, 193-204. | 0.8 | 3 |
| 215 | Lignocellulosic biomass for the preparation of celluloseâ€based hydrogel and its use for optimizing water resources in agriculture. Journal of Applied Polymer Science, 2015, 132, . | 1.3 | 37 |
| 216 | Comparison of cucumber and watermelon yield and water use in clay pitcher and furrow irrigation methods. International Journal of Water, 2015, 9, 275. | 0.1 | 3 |
| 217 | Maize Water Productivity and Its Relationship to Soil Properties under Integrated Cattle Manure and Mineral-Nitrogen Fertilizer in a Smallholder Cropping System. Agronomy Journal, 2015, 107, 2410-2418. | 0.9 | 4 |
| 218 | Water savings potentials of irrigation systems: global simulation of processes and linkages. Hydrology and Earth System Sciences, 2015, 19, 3073-3091. | 1.9 | 264 |
| 219 | Does Deficit Irrigation Affect the Relation between Radiation Interception and Water Consumption for Durum Wheat (Triticum durum Desf)?. Energy and Environment Research, 2015, 5, 36. | 0.1 | 0 |
| 220 | Maize Response to a Deficit-irrigation Strategy in a Dry Region. , 2015, , . | | 0 |
| 221 | Irrigation water pricing in Awash River Basin of Ethiopia: Evaluation of its impact on scheme-level irrigation performances and willingness to pay. African Journal of Agricultural Research Vol Pp, 2015, 10, 554-565. | 0.2 | 15 |
| 222 | Achieving Water and Food Security in 2050: Outlook, Policies, and Investments. Agriculture (Switzerland), 2015, 5, 188-220. | 1.4 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 223 | Cotton Water Use Efficiency under Two Different Deficit Irrigation Scheduling Methods. Agronomy, 2015, 5, 363-373. | 1.3 | 7 |
| 224 | Changing Food Consumption Patterns and Impact on Water Resources in the Fragile Grassland of Northern China. Sustainability, 2015, 7, 5628-5647. | 1.6 | 22 |
| 225 | Recharge and Groundwater Use in the North China Plain for Six Irrigated Crops for an Eleven Year Period. PLoS ONE, 2015, 10, e0115269. | 1.1 | 58 |
| 226 | Is Yield Increase Sufficient to Achieve Food Security in China?. PLoS ONE, 2015, 10, e0116430. | 1.1 | 35 |
| 227 | 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. PLoS ONE, 2015, 10, e0137274. | 1.1 | 37 |
| 228 | Quantifying and Managing Corn Water Use Efficiencies under Irrigated and Rainfed Conditions in Nebraska Using the Hybrid-Maize Simulation Model. Advances in Agricultural Systems Modeling, 0, , 113-138. | 0.3 | 2 |
| 229 | Water Use Efficiency of Durum Wheat (Triticum durum Desf) under Deficit Irrigation. Journal of Agricultural Science, 2015, 7, . | 0.1 | 4 |
| 230 | Lateral spacing in drip-irrigated wheat: The effects on soil moisture, yield, and water use efficiency. Field Crops Research, 2015, 179, 52-62. | 2.3 | 77 |
| 231 | Chinaâ€™s water for food under growing water scarcity. Food Security, 2015, 7, 933-949. | 2.4 | 28 |
| 232 | Effects of Different Fertilizer and Irrigation Water Types, and Dissolved Organic Matter on Soil C and N Mineralization in Crop Rotation Farmland. Water, Air, and Soil Pollution, 2015, 226, 1. | 1.1 | 27 |
| 233 | Strategies for increasing the capture, storage, and utilization of precipitation in semiarid regions. Journal of Integrative Agriculture, 2015, 14, 1500-1510. | 1.7 | 11 |
| 234 | Terrestrial Ecosystems in a Changing Environment: A Dominant Role for Water. Annual Review of Plant Biology, 2015, 66, 599-622. | 8.6 | 89 |
| 235 | Effect of diversified crop rotations on groundwater levels and crop water productivity in the North China Plain. Journal of Hydrology, 2015, 522, 428-438. | 2.3 | 91 |
| 236 | Spatio-temporal performance of large-scale Gezira Irrigation Scheme, Sudan. Agricultural Systems, 2015, 133, 131-142. | 3.2 | 38 |
| 237 | The water footprint of Tunisia from an economic perspective. Ecological Indicators, 2015, 52, 311-319. | 2.6 | 89 |
| 238 | Water-Yield Relations and Water Use Efficiency of Maize Under Nitrogen Fertigation for Semiarid Environments: Experiment and Synthesis. Advances in Agronomy, 2015, , 175-229. | 2.4 | 50 |
| 239 | Rainfall Variability: A Tool for Crop Planning of Udaipur Region of India. The National Academy of Sciences, India, 2015, 38, 95-98. | 0.8 | 3 |
| 240 | An evaluation of the water utilization and grain production of irrigated and rain-fed croplands in China. Science of the Total Environment, 2015, 529, 10-20. | 3.9 | 73 |

| # | Article | IF | Citations |
|---|---|---|---|
| 241 | Effect of deficit irrigation and different saline groundwater depths on yield and water productivity of quinoa. Agricultural Water Management, 2015, 159, 225-238. | 2.4 | 24 |
| 242 | Simple equation for estimating actual evapotranspiration using heat units for wheat inÂarid regions. Journal of Radiation Research and Applied Sciences, 2015, 8, 418-427. | 0.7 | 19 |
| 243 | Water productivity and food security: considering more carefully the farm-level perspective. Food Security, 2015, 7, 247-260. | 2.4 | 12 |
| 244 | Water productivity evaluation for grain crops in irrigated regions of China. Ecological Indicators, 2015, 55, 107-117. | 2.6 | 28 |
| 245 | Effect of Deficit Irrigation on the Growth, Water Use Characteristics and Yield of Cotton in Arid Northwest China. Pedosphere, 2015, 25, 910-924. | 2.1 | 55 |
| 246 | Water productivity and water footprints are not helpful in determining optimal water allocations or efficient management strategies. Water International, 2015, 40, 1059-1070. | 0.4 | 15 |
| 247 | Integrated assessment of waterâ€"energyâ€"GHG emissions tradeoffs in an irrigated lucerne production system in eastern Australia. Journal of Cleaner Production, 2015, 103, 491-498. | 4.6 | 17 |
| 249 | Estimating the Evaporation from Irrigation Canals in Northwestern China Using the Double-Deck Surface Air Layer Model. Advances in Meteorology, 2016, 2016, 1-9. | 0.6 | 5 |
| 250 | Crop Water Production Functionsâ€"A Review of Available Mathematical Method. Journal of Agricultural Science, 2016, 8, 76. | 0.1 | 8 |
| 251 | Predicting Maize Transpiration, Water Use and Productivity for Developing Improved Supplemental Irrigation Schedules in Western Uruguay to Cope with Climate Variability. Water (Switzerland), 2016, 8, 309. | 1.2 | 20 |
| 252 | Improving Water Sustainability and Food Security through Increased Crop Water Productivity in Malawi. Water (Switzerland), 2016, 8, 411. | 1.2 | 23 |
| 253 | Water-Food-Nutrition-Health Nexus: Linking Water to Improving Food, Nutrition and Health in Sub-Saharan Africa. International Journal of Environmental Research and Public Health, 2016, 13, 107. | 1.2 | 70 |
| 254 | Measuring the performance of perennial alfalfa with drought tolerance indices. Chilean Journal of Agricultural Research, 2016, 76, 273-284. | 0.4 | 6 |
| 255 | Monitoring winter wheat drought threat in Northern China using multiple climate-based drought indices and soil moisture during 2000â€"2013. Agricultural and Forest Meteorology, 2016, 228-229, 1-12. | 1.9 | 109 |
| 256 | Irrigated and rain-fed maize response to different nitrogen fertilizer application methods. Journal of Plant Nutrition, 2016, 39, 1874-1890. | 0.9 | 8 |
| 257 | Irrigation water productivity is more influenced by agronomic practice factors than by climatic factors in Hexi Corridor, Northwest China. Scientific Reports, 2016, 6, 37971. | 1.6 | 41 |
| 258 | Sustainability of rice intensification in Uruguay from 1993 to 2013. Global Food Security, 2016, 9, 10-18. | 4.0 | 37 |
| 259 | A decision support system for managing irrigation in agriculture. Computers and Electronics in Agriculture, 2016, 124, 121-131. | 3.7 | 201 |

| # | Article | IF | Citations |
|---|---|---|---|
| 260 | Estimation and Characterization of Deep Percolation from Rice and Berseem Fields Using Lysimeter Experiments on Sandy Loam Soil. Journal of Hydrologic Engineering - ASCE, 2016, 21, 05016006. | 0.8 | 8 |
| 261 | Drainage and Nitrate Leaching Assessed During 7ÂYears Under Perennial and Annual Bioenergy Crops. Bioenergy Research, 2016, 9, 656-670. | 2.2 | 17 |
| 262 | 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. | 2.4 | 42 |
| 263 | Economics of Salinity Effects from Irrigated Cotton: An Efficiency Analysis. Water Economics and Policy, 2016, 02, 1650002. | 0.3 | 2 |
| 264 | Water Productivity in Agriculture: Looking for Water in the Agricultural Productivity and Efficiency Literature. Water Economics and Policy, 2016, 02, 1650007. | 0.3 | 17 |
| 265 | Effects of agricultural management on measurements, prediction, and partitioning of evapotranspiration in irrigated grasslands. Agricultural Water Management, 2016, 177, 340-347. | 2.4 | 23 |
| 266 | Comparison of carbon budget, evapotranspiration, and albedo effect between the biofuel crops switchgrass and corn. Agriculture, Ecosystems and Environment, 2016, 231, 271-282. | 2.5 | 31 |
| 267 | 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. | 2.4 | 23 |
| 268 | 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. | 1.6 | 32 |
| 269 | Mechanisms of Hormone Regulation for Drought Tolerance in Plants. , 2016, , 45-75. | | 10 |
| 270 | Gravimetric phenotyping of whole plant transpiration responses to atmospheric vapour pressure deficit identifies genotypic variation in water use efficiency. Plant Science, 2016, 251, 101-109. | 1.7 | 63 |
| 271 | Multi-Objective Optimization Model for the Allocation of Water Resources in Arid Regions Based on the Maximization of Socioeconomic Efficiency. Water Resources Management, 2016, 30, 927-946. | 1.9 | 105 |
| 272 | 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. | 1.9 | 41 |
| 273 | Irrigation, a productive tool for food security â€“ a review. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2016, 66, 191-206. | 0.3 | 12 |
| 274 | Development of a regionally sensitive water-productivity indicator to identify sustainable practices for sugarcane growers. Integrated Environmental Assessment and Management, 2016, 12, 811-820. | 1.6 | 4 |
| 275 | 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. | 2.4 | 43 |
| 276 | Irrigation and fertigation scheduling under drip irrigation for maize crop in sandy soil. International Agrophysics, 2016, 30, 47-55. | 0.7 | 22 |
| 277 | Evapotranspiration, water use efficiency, and energy partitioning of a mature switchgrass stand. Agricultural and Forest Meteorology, 2016, 217, 108-119. | 1.9 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 278 | Bio-chemicals from lignocellulose feedstock: sustainability, LCA and the green conundrum. Green Chemistry, 2016, 18, 1912-1922. | 4.6 | 91 |
| 279 | Optimal model-based deficit irrigation scheduling using AquaCrop: A simulation study with cotton, potato and tomato. Agricultural Water Management, 2016, 163, 236-243. | 2.4 | 93 |
| 280 | An economic valuation of groundwater management for Agriculture in Luancheng county, North China. Agricultural Water Management, 2016, 163, 28-36. | 2.4 | 11 |
| 281 | Effects of variation in rainfall on rainfed crop yields and water use in dryland farming areas in China. Arid Land Research and Management, 2016, 30, 1-24. | 0.6 | 19 |
| 282 | Assessing the supplementary irrigation for improving crop productivity in water stress region using spatial hydrological model. Geocarto International, 2017, 32, 1-17. | 1.7 | 29 |
| 283 | Responses of yield and WUE of winter wheat to water stress during the past three decadesâ€"A case study in the North China Plain. Agricultural Water Management, 2017, 179, 47-54. | 2.4 | 100 |
| 284 | Meteorological limits to winter wheat productivity in the U.S. southern Great Plains. Field Crops Research, 2017, 203, 212-226. | 2.3 | 87 |
| 285 | Designing a new cropping system for high productivity and sustainable water usage under climate change. Scientific Reports, 2017, 7, 41587. | 1.6 | 24 |
| 286 | Water productivity of maize in the US high plains. Irrigation Science, 2017, 35, 251-266. | 1.3 | 70 |
| 287 | Irrigation management based on soil matric potential improves water use efficiency of field-grown strawberries in California. Acta Horticulturae, 2017, , 191-196. | 0.1 | 3 |
| 288 | Assessing water productivity in the Hetao Irrigation District in Inner Mongolia by an agro-hydrological model. Irrigation Science, 2017, 35, 357-382. | 1.3 | 39 |
| 289 | Effects of watering regime and nitrogen application rate on the photosynthetic parameters, physiological characteristics, and agronomic traits of rice. Acta Physiologiae Plantarum, 2017, 39, 1. | 1.0 | 28 |
| 290 | Possible pathways and tensions in the food and water nexus. Earth's Future, 2017, 5, 449-462. | 2.4 | 37 |
| 291 | Responses of water productivity to irrigation and N supply for hybrid maize seed production in an arid region of Northwest China. Journal of Arid Land, 2017, 9, 504-514. | 0.9 | 26 |
| 292 | Crop evapotranspiration in the Nile Delta under different irrigation methods. Hydrological Sciences Journal, 2017, 62, 1618-1635. | 1.2 | 14 |
| 293 | Water limits to closing yield gaps. Advances in Water Resources, 2017, 99, 67-75. | 1.7 | 58 |
| 294 | Water (stress) models and deficit irrigation: System-theoretical description and causality mapping. Ecological Modelling, 2017, 361, 135-156. | 1.2 | 23 |
| 295 | Farmersâ€™ Willingness to Adopt Conservation Agriculture: New Evidence from Lebanon. Environmental Management, 2017, 60, 693-704. | 1.2 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 296 | Managed aquifer recharge through offâ€season irrigation in agricultural regions. Water Resources Research, 2017, 53, 6970-6992. | 1.7 | 63 |
| 297 | 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. | 2.4 | 17 |
| 298 | Assessing water scarcity in agricultural production system based on the generalized water resources and water footprint framework. Science of the Total Environment, 2017, 609, 587-597. | 3.9 | 139 |
| 299 | Groundwater and human development: synergies and trade-offs within the context of the sustainable development goals. Sustainability Science, 2017, 12, 1007-1017. | 2.5 | 115 |
| 300 | 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. | 2.4 | 37 |
| 301 | Optimizing water use efficiency and economic return of super high yield spring maize under drip irrigation and plastic mulching in arid areas of China. Field Crops Research, 2017, 211, 137-146. | 2.3 | 117 |
| 302 | Evapotranspiration, irrigation water requirement, and water productivity of rice (Oryza sativa L.) in the Sahelian environment. Paddy and Water Environment, 2017, 15, 469-482. | 1.0 | 16 |
| 303 | The water productivity score (WPS) at global and regional level: Methodology and first results from remote sensing measurements of wheat, rice and maize. Science of the Total Environment, 2017, 575, 595-611. | 3.9 | 73 |
| 304 | Drought Tolerance and Water Use of Cereal Crops: A Focus on Sorghum as a Food Security Crop in Subâ€Saharan Africa. Journal of Agronomy and Crop Science, 2017, 203, 177-191. | 1.7 | 167 |
| 305 | Recent patterns of production for the main cereal grains: implications for food security in China. Regional Environmental Change, 2017, 17, 105-116. | 1.4 | 14 |
| 306 | 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. | 2.4 | 40 |
| 307 | Assessing the Economic Implications of Reduced Water Availability and Better Management Practices on Representative Farms in Southern Alberta. Canadian Journal of Agricultural Economics, 2017, 65, 189-217. | 1.2 | 0 |
| 308 | Conservation tillage as an approach to enhance crops water use efficiency. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2017, 67, 252-262. | 0.3 | 6 |
| 309 | Evaluation of Water Schemes for Maize Under Arid area in Iran Using the SWAP Model. Communications in Soil Science and Plant Analysis, 2017, 48, 1963-1976. | 0.6 | 4 |
| 310 | 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. | 1.6 | 15 |
| 311 | Optimizing Et-Based Irrigation Scheduling for Wheat and Maize with Water Constraints. Transactions of the ASABE, 2017, 60, 2053-2065. | 1.1 | 7 |
| 312 | Maize Yield as a Function of Water Availability across Precipitation Years in the North China Plain. Crop Science, 2017, 57, 2226-2237. | 0.8 | 5 |
| 313 | Modeling Crop Water Productivity Using a Coupled SWATâ€"MODSIM Model. Water (Switzerland), 2017, 9, 157. | 1.2 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 314 | Modeling of Soil Water Regime and Water Balance in a Transplanted Rice Field Experiment with Reduced Irrigation. Water (Switzerland), 2017, 9, 248. | 1.2 | 22 |
| 315 | Soil Water and Phreatic Evaporation in Shallow Groundwater during a Freezeâ€"Thaw Period. Water (Switzerland), 2017, 9, 396. | 1.2 | 20 |
| 316 | Water use and productivity of maize-based cropping systems in the Alqueva region (Portugal). Cereal Research Communications, 2017, 45, 711-721. | 0.8 | 8 |
| 317 | The impacts of data constraints on the predictive performance of a general process-based crop model (PeakN-crop v1.0). Geoscientific Model Development, 2017, 10, 1679-1701. | 1.3 | 6 |
| 318 | Realization of daily evapotranspiration in arid ecosystems based on remote sensing techniques. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 141-147. | 0.6 | 9 |
| 319 | Impact of Irrigation Technologies and Strategies on Cotton Water Footprint Using AquaCrop and CROPWAT Models. Environmental Processes, 2018, 5, 181-199. | 1.7 | 41 |
| 320 | Opportunistic Marketâ€Driven Regional Shifts of Cropping Practices Reduce Food Production Capacity of China. Earth's Future, 2018, 6, 634-642. | 2.4 | 16 |
| 321 | Components of feed affecting water footprint of feedlot dairy farm systems in Northern China. Journal of Cleaner Production, 2018, 183, 208-219. | 4.6 | 11 |
| 322 | Drip irrigation enhances shallow groundwater contribution to crop water consumption in an arid area. Hydrological Processes, 2018, 32, 747-758. | 1.1 | 31 |
| 323 | An assessment of satellite-based agricultural water productivity over the Indian region. International Journal of Remote Sensing, 2018, 39, 2294-2311. | 1.3 | 3 |
| 324 | Effective use rate of generalized water resources assessment and to improve agricultural water use efficiency evaluation index system. Ecological Indicators, 2018, 86, 58-66. | 2.6 | 32 |
| 325 | Wheat Yield and Water Use Efficiency in the North of Tunisia Under Supplemental Irrigation. Advances in Science, Technology and Innovation, 2018, , 779-780. | 0.2 | 0 |
| 326 | Adaptation of land management in the Mediterranean under scenarios of irrigation water use and availability. Mitigation and Adaptation Strategies for Global Change, 2018, 23, 821-837. | 1.0 | 42 |
| 327 | Waste management system in the clothing industry in Santa Catarina State Brazil. Management of Environmental Quality, 2018, 29, 594-607. | 2.2 | 3 |
| 328 | Performance evaluation of reservoir-based irrigation schemes in the Upper East region of Ghana. Agricultural Water Management, 2018, 202, 134-145. | 2.4 | 10 |
| 329 | Enhancing field scale water productivity for several rice cultivars under limited water supply. Paddy and Water Environment, 2018, 16, 125-141. | 1.0 | 7 |
| 330 | 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. | 2.4 | 29 |
| 331 | 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. | 1.9 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 332 | Alternate wetting and drying reduces methane emission from a rice paddy in Central Java, Indonesia without yield loss. Soil Science and Plant Nutrition, 2018, 64, 23-30. | 0.8 | 86 |
| 333 | Untangling the effects of shallow groundwater and deficit irrigation on irrigation water productivity in arid region: New conceptual model. Science of the Total Environment, 2018, 619-620, 1170-1182. | 3.9 | 41 |
| 334 | Modeling plant density and ponding water effects on flooded rice evapotranspiration and crop coefficients: critical discussion about the concepts used in current methods. Theoretical and Applied Climatology, 2018, 132, 1165-1186. | 1.3 | 6 |
| 335 | From Global Goals to Local Gainsâ€"A Framework for Crop Water Productivity. ISPRS International Journal of Geo-Information, 2018, 7, 414. | 1.4 | 24 |
| 336 | Beneficios agronÃ³micos y ambientales de fuentes de fertilizantes nitrogenados en Ocimum basilicum L.. DYNA (Colombia), 2018, 85, 294-303. | 0.2 | 0 |
| 337 | Mapping Ecological Production and Benefits from Water Consumed in Agricultural and Natural Landscapes: A Case Study of the Pangani Basin. Remote Sensing, 2018, 10, 1802. | 1.8 | 4 |
| 338 | Water Footprint for Pulse, Cereal, and Oilseed Crops in Saskatchewan, Canada. Water (Switzerland), 2018, 10, 1609. | 1.2 | 13 |
| 339 | 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. Sustainability, 2018, 10, 3953. | 1.6 | 25 |
| 340 | Low Water Productivity for Rice in Bihar, Indiaâ€"A Critical Analysis. Water (Switzerland), 2018, 10, 1082. | 1.2 | 15 |
| 341 | Closing water productivity gaps to achieve food and water security for a global maize supply. Scientific Reports, 2018, 8, 14762. | 1.6 | 13 |
| 342 | Ammonium uptake and metabolism alleviate PEG-induced water stress in rice seedlings. Plant Physiology and Biochemistry, 2018, 132, 128-137. | 2.8 | 48 |
| 343 | Evolution of Crop Water Productivity in the Nile Delta over Three Decades (1985â€"2015). Water (Switzerland), 2018, 10, 1168. | 1.2 | 23 |
| 344 | Climate variability impacts on rice production in the Philippines. PLoS ONE, 2018, 13, e0201426. | 1.1 | 61 |
| 345 | Variation in agricultural water demand and its attributions in the arid Tarim River Basin. Journal of Agricultural Science, 2018, 156, 301-311. | 0.6 | 28 |
| 346 | Integrated assessment of economic and environmental consequences of shifting cropping system from wheat-maize to monocropped maize in the North China Plain. Journal of Cleaner Production, 2018, 193, 524-532. | 4.6 | 54 |
| 347 | Simulation of the irrigation requirements for improving carbon sequestration in a rainfed cropping system under long-term fertilization on the Loess Plateau of China. Agriculture, Ecosystems and Environment, 2018, 265, 198-208. | 2.5 | 17 |
| 348 | Real-time irrigation: Cost-effectiveness and benefits for water use and productivity of strawberries. Scientia Horticulturae, 2018, 240, 468-477. | 1.7 | 14 |
| 349 | Minimize water deficit in wheat crop to ameliorate groundwater decline in rice-wheat cropping system. Agricultural Water Management, 2018, 208, 261-267. | 2.4 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 350 | Nutritional water productivity of selected leafy vegetables. Agricultural Water Management, 2018, 209, 111-122. | 2.4 | 24 |
| 351 | Year-Round Irrigation Schedule for a Tomatoâ€"Maize Rotation System in Reservoir-Based Irrigation Schemes in Ghana. Water (Switzerland), 2018, 10, 624. | 1.2 | 7 |
| 352 | Assessing the Water Footprint of Wheat and Maize in Haihe River Basin, Northern China (1956â€"2015). Water (Switzerland), 2018, 10, 867. | 1.2 | 26 |
| 353 | Temporalâ€"spatial distributions of water use and productivity of maize in China. Journal of Agricultural Science, 2018, 156, 528-536. | 0.6 | 5 |
| 354 | Appraisal of Agriglass in Promoting Maize Production Under Abiotic Stress Conditions. Silicon, 2018, 10, 1841-1849. | 1.8 | 7 |
| 355 | Evaluation of maize production under mobile drip irrigation. Agricultural Water Management, 2018, 210, 11-21. | 2.4 | 11 |
| 356 | Scoping of promising land management and water use practices in the dry areas of Uzbekistan. Agricultural Water Management, 2018, 207, 15-25. | 2.4 | 7 |
| 357 | Effects of water stress on water use efficiency of irrigated and rainfed wheat in the Loess Plateau, China. Science of the Total Environment, 2018, 642, 1-11. | 3.9 | 57 |
| 358 | Water productivity of rainfed maize and wheat: A local to global perspective. Agricultural and Forest Meteorology, 2018, 259, 364-373. | 1.9 | 70 |
| 359 | Combined use of agro-climatic and very high-resolution remote sensing information for crop monitoring. International Journal of Applied Earth Observation and Geoinformation, 2018, 72, 66-75. | 1.4 | 28 |
| 360 | Increasing World Average Yields of Cereal Crops. Advances in Agronomy, 2018, 151, 1-44. | 2.4 | 36 |
| 361 | Calibration and validation of the AquaCrop model for repeatedly harvested leafy vegetables grown under different irrigation regimes. Agricultural Water Management, 2018, 208, 107-119. | 2.4 | 30 |
| 362 | Nitrous oxide emission and mitigation from maizeâ€"wheat rotation in the upper Indo-Gangetic Plains. Carbon Management, 2019, 10, 489-499. | 1.2 | 24 |
| 363 | Temporal-Spatial Distribution Characteristics and Influencing Factors of Regional Agricultural Water Requirement Indicators. Journal of Irrigation and Drainage Engineering - ASCE, 2019, 145, 04019019. | 0.6 | 5 |
| 364 | 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. | 2.4 | 37 |
| 365 | Status of accuracy in remotely sensed and in-situ agricultural water productivity estimates: A review. Remote Sensing of Environment, 2019, 234, 111413. | 4.6 | 49 |
| 368 | Four perspectives on water for global food production and international trade: incommensurable objectives and implications. Current Opinion in Environmental Sustainability, 2019, 40, 30-36. | 3.1 | 9 |
| 369 | Using indicators to inform the sustainable governance of water-for-food systems. Current Opinion in Environmental Sustainability, 2019, 40, 55-62. | 3.1 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 370 | Deficit Irrigation Scheduling and Superabsorbent Polymerâ€•Hydrogel Enhance Seed Yield, Water Productivity and Economics of Indian Mustard Under Semiâ€Arid Ecologies. Irrigation and Drainage, 2019, 68, 531-541. | 0.8 | 10 |
| 371 | A global synthesis of the effect of water and nitrogen input on maize (Zea mays) yield, water productivity and nitrogen use efficiency. Agricultural and Forest Meteorology, 2019, 268, 136-145. | 1.9 | 43 |
| 372 | Water-Related Variables for Predicting Yield of Apple under Deficit Irrigation. Horticulturae, 2019, 5, 8. | 1.2 | 8 |
| 373 | Global Climate Change and Its Impact on Agriculture. , 2019, , 1-50. | | 25 |
| 374 | Simulating the Impacts of Irrigation Levels on Soybean Production in Texas High Plains to Manage Diminishing Groundwater Levels. Journal of the American Water Resources Association, 2019, 55, 56-69. | 1.0 | 19 |
| 375 | Agronomic Practices for Reducing Wheat Yield Gaps: A Quantitative Appraisal of Progressive Producers. Crop Science, 2019, 59, 333-350. | 0.8 | 68 |
| 376 | Effects of Soils and Irrigation Volume on Maize Yield, Irrigation Water Productivity, and Nitrogen Uptake. Scientific Reports, 2019, 9, 7740. | 1.6 | 53 |
| 377 | 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. | 2.4 | 78 |
| 378 | LCIS DSSâ€"An irrigation supporting system for water use efficiency improvement in precision agriculture: A maize case study. Agricultural Systems, 2019, 176, 102646. | 3.2 | 67 |
| 379 | Roles of methyl jasmonate in improving growth and yield of two varieties of bread wheat (Triticum) Tj ETQq1 1 0.784314 rgBT /Overlock | 2.4 | 16 |
| 380 | 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. Journal of Hydrology, 2019, 574, 497-516. | 2.3 | 46 |
| 381 | 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. | 2.4 | 8 |
| 382 | 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. | 2.4 | 30 |
| 383 | Global Satellite-Based ET Products for the Local Level Irrigation Management: An Application of Irrigation Performance Assessment in the Sugarbelt of Swaziland. Remote Sensing, 2019, 11, 705. | 1.8 | 15 |
| 384 | How should crop water-use efficiency be analyzed? A warning about spurious correlations. Field Crops Research, 2019, 235, 59-67. | 2.3 | 15 |
| 385 | Concurrent Drought and Temperature Stress in Riceâ€"A Possible Result of the Predicted Climate Change: Effects on Yield Attributes, Eating Characteristics, and Health Promoting Compounds. International Journal of Environmental Research and Public Health, 2019, 16, 1043. | 1.2 | 48 |
| 386 | 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. | 2.4 | 96 |
| 387 | Efficient Identification of Corn Cultivation Area with Multitemporal Synthetic Aperture Radar and Optical Images in the Google Earth Engine Cloud Platform. Remote Sensing, 2019, 11, 629. | 1.8 | 57 |

| # | Article | IF | Citations |
|---|---|---|---|
| 388 | High resolution mapping of agricultural water productivity using SEBAL in a cultivated African catchment, Tanzania. Physics and Chemistry of the Earth, 2019, 112, 36-49. | 1.2 | 20 |
| 389 | The role of soil hydraulic properties in crop water use efficiency: A process-based analysis for some Brazilian scenarios. Agricultural Systems, 2019, 173, 364-377. | 3.2 | 18 |
| 390 | Current and potential capabilities of UAS for crop water productivity in precision agriculture. Agricultural Water Management, 2019, 218, 158-164. | 2.4 | 51 |
| 391 | Management practice to optimize wheat yield and water use in changing climate. Archives of Agronomy and Soil Science, 2019, 65, 1802-1819. | 1.3 | 6 |
| 392 | Managing food and bioenergy crops with declining groundwater levels in the North China Plain. Field Crops Research, 2019, 234, 1-14. | 2.3 | 28 |
| 394 | Wheat response to water stress condition at different growth stages in Amibara, Ethiopia. African Journal of Agricultural Research Vol Pp, 2019, 14, 1493-1498. | 0.2 | 2 |
| 395 | A goal programming approach for balancing diet costs and feed water use under different environmental conditions. Journal of Dairy Science, 2019, 102, 11504-11522. | 1.4 | 5 |
| 396 | Evaluation of Hydroclimatic Variability and Prospective Irrigation Strategies in the U.S. Corn Belt. Water (Switzerland), 2019, 11, 2447. | 1.2 | 8 |
| 397 | Pre-Sowing Irrigation Plus Surface Fertilization Improves Morpho-Physiological Traits and Sustaining Water-Nitrogen Productivity of Cotton. Agronomy, 2019, 9, 772. | 1.3 | 5 |
| 398 | Comparative assessment of irrigation systemsâ€™ performance: Case study in the Triffa agricultural district, NE Morocco. Agricultural Water Management, 2019, 212, 338-348. | 2.4 | 13 |
| 399 | Performance of small-scale irrigation schemes in Lake Tana Basin of Ethiopia: technical and socio-political attributes. Physical Geography, 2019, 40, 227-251. | 0.6 | 18 |
| 400 | Irrigation leads to greater maize yield at higher water productivity and lower environmental costs: a global meta-analysis. Agriculture, Ecosystems and Environment, 2019, 273, 62-69. | 2.5 | 39 |
| 401 | Modelling and measurement of water productivity and total evaporation in a dryland soybean crop. Agricultural and Forest Meteorology, 2019, 266-267, 65-72. | 1.9 | 28 |
| 402 | Temporal variability of water footprint for cereal production and its controls in Saskatchewan, Canada. Science of the Total Environment, 2019, 660, 1306-1316. | 3.9 | 17 |
| 403 | Developing soil matric potential based irrigation strategies of direct seeded rice for improving yield and water productivity. Agricultural Water Management, 2019, 215, 8-15. | 2.4 | 19 |
| 404 | Effect of Irrigation Depth Reduction, Planting Date and Cropping Pattern on Water Productivity in West Lake Urmia, Iran. Irrigation and Drainage, 2019, 68, 191-204. | 0.8 | 3 |
| 405 | Increase in economic efficiency of water use caused by crop structure adjustment in arid areas. Journal of Environmental Management, 2019, 230, 386-391. | 3.8 | 35 |
| 406 | 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. | 2.4 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 407 | A Comparative Analysis of Yield Gaps and Water Productivity on Smallholder Farms in Ethiopia, South Africa and Tunisia. Irrigation and Drainage, 2020, 69, 70-87. | 0.8 | 11 |
| 408 | Quantification of cotton water consumption by remote sensing. Geocarto International, 2020, 35, 1800-1813. | 1.7 | 7 |
| 409 | A meta-analysis of global crop water productivity of three leading world crops (wheat, corn, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 | 1.6 | 42 |
| 410 | Factors affecting crop water use efficiency: A worldwide meta-analysis. Agricultural Water Management, 2020, 228, 105878. | 2.4 | 63 |
| 411 | NDVIâ€based estimates of evapotranspiration of winter wheat indicate positive effects of N fertilizer application on agronomic waterâ€use efficiency. Journal of Agronomy and Crop Science, 2020, 206, 1-12. | 1.7 | 7 |
| 412 | State-based open-loop control of plant growth by means of water stress training. Agricultural Water Management, 2020, 230, 105963. | 2.4 | 3 |
| 413 | 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. | 2.4 | 102 |
| 414 | Climate-driven constraints in sustaining future wheat yield and water productivity. Agricultural Water Management, 2020, 231, 105991. | 2.4 | 22 |
| 415 | Temporal and spatial variations of irrigation water use for commercial corn fields in Central Nebraska. Agricultural Water Management, 2020, 228, 105924. | 2.4 | 11 |
| 416 | Physiological Efficiency of Sugarcane Clones under Water-Limited Conditions. Transactions of the ASABE, 2020, 63, 133-140. | 1.1 | 11 |
| 417 | Mapping catchment-scale unmonitored groundwater abstractions: Approaches based on soft data. Journal of Hydrology: Regional Studies, 2020, 30, 100695. | 1.0 | 5 |
| 418 | 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. Water Security, 2020, 11, 100078. | 1.2 | 23 |
| 419 | Forty Years of Increasing Cottonâ€™s Water Productivity and Why the Trend Will Continue. Applied Engineering in Agriculture, 2020, 36, 457-478. | 0.3 | 7 |
| 420 | The effect of irrigation strategies and nitrogen fertilizer rates on maize growth and grain yield. Irrigation Science, 2020, 38, 461-478. | 1.3 | 23 |
| 421 | 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. | 2.4 | 15 |
| 422 | Estimating Conveyance Efficiency and Maize Productivity of Traditional Irrigation Systems in Usa River Catchment, Tanzania. International Journal of Agronomy, 2020, 2020, 1-11. | 0.5 | 0 |
| 423 | Water Productivity Improvement Under Salinity Conditions: Case Study of the Saline Areas of Lower Karkheh River Basin, Iran. , 2020, , . | | 2 |
| 424 | Water supply and effective rainfall impacts on major crops across irrigated areas of Punjab, Pakistan. Theoretical and Applied Climatology, 2020, 142, 1097-1116. | 1.3 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 425 | Remote sensing: the method of GIS application for monitoring the state of soils. E3S Web of Conferences, 2020, 175, 06009. | 0.2 | 7 |
| 426 | A crop type dataset for consistent land cover classification in Central Asia. Scientific Data, 2020, 7, 250. | 2.4 | 8 |
| 427 | Spatiotemporal Assessment of Irrigation Performance of the Kou Valley Irrigation Scheme in Burkina Faso Using Satellite Remote Sensing-Derived Indicators. ISPRS International Journal of Geo-Information, 2020, 9, 484. | 1.4 | 11 |
| 428 | Water productivity of high performing apple orchards in the winter rainfall area of South Africa. Acta Horticulturae, 2020, , 479-486. | 0.1 | 0 |
| 429 | Interactive Effects of Nitrogen and Drip Irrigation Rates on Root Development of Corn (Zea MaysÂL.) and Residual Soil Moisture. Gesunde Pflanzen, 2020, 72, 335-349. | 1.7 | 3 |
| 430 | Evaluating agricultural water-use efficiency based on water footprint of crop values: a case study in Xinjiang of China. Journal of Arid Land, 2020, 12, 580-593. | 0.9 | 15 |
| 431 | Transpiration and evaporation of grassland using land surface modelling. Hydrological Processes, 2020, 34, 3656-3668. | 1.1 | 5 |
| 432 | On Parameterizing Soil Evaporation in a Direct Remote Sensing Model of ET: PTâ€JPL. Water Resources Research, 2020, 56, e2019WR026290. | 1.7 | 11 |
| 433 | Growth and water-use characteristics of Romaine lettuce cultivated in Histosol as affected by irrigation management, compaction, and seeding type. Canadian Journal of Soil Science, 2020, 100, 278-288. | 0.5 | 2 |
| 434 | 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. | 2.4 | 38 |
| 435 | 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. | 1.6 | 13 |
| 436 | Water productivity of irrigated maize production systems in Northern China: A meta-analysis. Agricultural Water Management, 2020, 234, 106119. | 2.4 | 26 |
| 437 | Limited irrigation influence on rotation yield, water use, and wheat traits. Agronomy Journal, 2020, 112, 241-256. | 0.9 | 10 |
| 438 | A spatially explicit analysis of wheat and maize yield sensitivity to changing groundwater levels in Hungary, 1961â€"2010. Science of the Total Environment, 2020, 715, 136555. | 3.9 | 19 |
| 439 | Noâ€tillage with reduced water and nitrogen supply improves water use efficiency of wheat in arid regions. Agronomy Journal, 2020, 112, 578-591. | 0.9 | 11 |
| 440 | Living at the Waterâ€™s Edge: A World-Wide Econometric Panel Estimation of Arable Water Footprint Drivers. Water (Switzerland), 2020, 12, 1060. | 1.2 | 1 |
| 441 | Economic analysis of saffron production. , 2020, , 337-356. | | 9 |
| 442 | Detection of phenology using an improved shape model on time-series vegetation index in wheat. Computers and Electronics in Agriculture, 2020, 173, 105398. | 3.7 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 443 | Climate variability in agriculture and crop water requirement: Spatial analysis of Italian provinces. Journal of Cleaner Production, 2020, 262, 121331. | 4.6 | 11 |
| 444 | 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. | 2.2 | 74 |
| 445 | A quantitative review of water footprint accounting and simulation for crop production based on publications during 2002â€"2018. Ecological Indicators, 2021, 120, 106962. | 2.6 | 34 |
| 446 | Nano-fertilizers improved drought tolerance in wheat under deficit irrigation. Agricultural Water Management, 2021, 244, 106544. | 2.4 | 65 |
| 447 | Response of winter-wheat grain yield and water-use efficiency to irrigation with activated water on Guanzhong Plain in China. Irrigation Science, 2021, 39, 263-276. | 1.3 | 22 |
| 448 | Assessment of irrigation expansion and implications for water resources by using RS and GIS techniques in the Lake Tana Basin of Ethiopia. Environmental Monitoring and Assessment, 2021, 193, 13. | 1.3 | 23 |
| 449 | The scarcity-weighted water footprint provides unreliable water sustainability scoring. Science of the Total Environment, 2021, 756, 143992. | 3.9 | 43 |
| 450 | Tweaking Pakistani Punjab rice-wheat management to maximize productivity within nitrate leaching limits. Field Crops Research, 2021, 260, 107964. | 2.3 | 13 |
| 451 | 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. Journal of Plant Nutrition, 2021, 44, 373-394. | 0.9 | 6 |
| 452 | Past trends in water productivity at the global and regional scale. Current Directions in Water Scarcity Research, 2021, 3, 99-118. | 0.2 | 2 |
| 453 | Chapter 9 The Outlook for C4 Crops in Future Climate Scenarios. Advances in Photosynthesis and Respiration, 2021, , 251-281. | 1.0 | 5 |
| 454 | Effect of Drip Irrigation on Soil Water Balance and Water Use Efficiency of Maize in Northwest China. Water (Switzerland), 2021, 13, 217. | 1.2 | 15 |
| 455 | Bioelectrochemical technologies: Current and potential applications in agriculture resource recovery. , 2021, , 209-308. | | 0 |
| 456 | Salinity and fertility stresses modify Ks and readily available water coefficients in maize (case study:) Tj ETQq1 1 0.784314 rgBT /Overlo | 1.3 | 8 |
| 457 | Modelling climate smart rice-wheat production system in the middle Gangetic plains of India. Theoretical and Applied Climatology, 2021, 144, 77-91. | 1.3 | 5 |
| 458 | Modeling Cotton Growth and Yield Response to Irrigation Practices for Thermally Limited Growing Seasons in Kansas. Transactions of the ASABE, 2021, 64, 1-12. | 1.1 | 4 |
| 459 | A comprehensive analysis of water productivity in natural vegetation and various crops coexistent agro-ecosystems. Agricultural Water Management, 2021, 243, 106481. | 2.4 | 9 |
| 460 | Estimating different productivity functions: Theory and review of past global attempts. Current Directions in Water Scarcity Research, 2021, 3, 65-98. | 0.2 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 461 | Measure for raising crop water productivity in South Asia and Sub-Saharan Africa. Current Directions in Water Scarcity Research, 2021, , 157-196. | 0.2 | 1 |
| 462 | Conceptual issues in water use efficiency and water productivity. Current Directions in Water Scarcity Research, 2021, 3, 49-63. | 0.2 | 1 |
| 463 | Closing yield and harvest area gaps to mitigate water scarcity related to Chinaâ€™s rice production. Agricultural Water Management, 2021, 245, 106602. | 2.4 | 8 |
| 464 | Assessment of soil surface scarification and reseeding with sulla (Hedysarum coronarium L.) of degraded Mediterranean semi-arid rangelands. African Journal of Range and Forage Science, 2021, 38, S63-S72. | 0.6 | 2 |
| 465 | Water productivity improvement in summer maize â€“ÂA case study in the North China Plain from 1980 to 2019. Agricultural Water Management, 2021, 247, 106728. | 2.4 | 15 |
| 467 | Irrigation management evaluation of multiple irrigation methods using performance indicators. ISH Journal of Hydraulic Engineering, 2022, 28, 303-312. | 1.1 | 6 |
| 468 | 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. Irrigation Science, 2021, 39, 587-606. | 1.3 | 5 |
| 469 | Informing drought mitigation policy by estimating the value of water for crop production. Environmental Research Communications, 2021, 3, 041004. | 0.9 | 2 |
| 470 | Simulated efficient growth-stage-based deficit irrigation strategies for maximizing cotton yield, crop water productivity and net returns. Agricultural Water Management, 2021, 250, 106840. | 2.4 | 19 |
| 471 | Assessment of Planting Method and Deficit Irrigation Impacts on Physio-Morphology, Grain Yield and Water Use Efficiency of Maize (Zea mays L.) on Vertisols of Semi-Arid Tropics. Plants, 2021, 10, 1094. | 1.6 | 9 |
| 473 | AlteraÃ§Ãµes na eficiÃªncia do uso da Ã¡gua relacionadas com fatores climÃ¡ticos e uso e ocupaÃ§Ã£o do solo, na regiÃ£o do MATOPIBA. Research, Society and Development, 2021, 10, e3010917891. | 0.0 | 1 |
| 474 | An assessment of water consumption patterns and land productivity and water productivity using WA+ framework and satellite data inputs. Physics and Chemistry of the Earth, 2022, 126, 103053. | 1.2 | 12 |
| 475 | The regulation and management of water resources in groundwater over-extraction area based on ET. Theoretical and Applied Climatology, 2021, 146, 57-69. | 1.3 | 5 |
| 476 | Agronomic gain: Definition, approach, and application. Field Crops Research, 2021, 270, 108193. | 2.3 | 25 |
| 477 | Assessment of Different Water Use Efficiency Calculations for Dominant Forage Crops in the Great Lakes Basin. Agriculture (Switzerland), 2021, 11, 739. | 1.4 | 3 |
| 478 | Evaluation of irrigation scheduling and yield response for wheat cultivars using the AquaCrop model in an arid climate. Water Science and Technology: Water Supply, 2022, 22, 602-614. | 1.0 | 11 |
| 479 | Use of efficient water saving techniques for production of rice in India under climate change scenario: A critical review. Journal of Cleaner Production, 2021, 309, 127272. | 4.6 | 66 |
| 480 | 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. | 2.4 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 481 | Deficit irrigation as a sustainable option for improving water productivity in Sub-Saharan Africa: the case of Ethiopia. A critical review. Environmental Research Communications, 2021, 3, 102001. | 0.9 | 7 |
| 482 | SDG indicator 6.4.1 â€œchange in water use efficiency over timeâ€: Methodological flaws and suggestions for improvement. Science of the Total Environment, 2021, 801, 149431. | 3.9 | 17 |
| 483 | Ecological aspects of the soil-water-plant-atmosphere system. , 2022, , 279-302. | | 2 |
| 484 | Dry Matter Production, Partitioning, and Seed Yield Under Soil Water Deficit: A Review. , 2021, , 585-702. | | 1 |
| 485 | Framework for identifying the interventions required for enhancing water productivity at various scales. Current Directions in Water Scarcity Research, 2021, 3, 219-235. | 0.2 | 0 |
| 486 | Past growth in agricultural productivity in South Asia. Current Directions in Water Scarcity Research, 2021, 3, 137-156. | 0.2 | 3 |
| 487 | Estimation of evapotranspiration and single and dual crop coefficients of acai palm in the Eastern Amazon (Brazil) using the Bowen ratio system. Irrigation Science, 2021, 39, 5-22. | 1.3 | 6 |
| 488 | The Plant Water Status. , 2021, , 117-128. | | 0 |
| 489 | Constraints of improving crop water productivity in rainfed and irrigated systems in South Asia and Sub-Saharan Africa. Current Directions in Water Scarcity Research, 2021, 3, 197-218. | 0.2 | 0 |
| 491 | Drought Stress. , 2019, , 81-97. | | 4 |
| 492 | Sustainable Rice Production. Sustainable Agriculture Reviews, 2015, , 107-121. | 0.6 | 3 |
| 493 | Irrigation Scheduling for Cotton Cultivation. , 2020, , 59-80. | | 24 |
| 494 | Land degradation and water productivity in agricultural landscapes.. , 2008, , 20-32. | | 7 |
| 495 | Water and Crops. Books in Soils, Plants, and the Environment, 2014, , 967-978. | 0.1 | 1 |
| 496 | Influence of drought stress on Photosynthetic enzymes, Chlorophyll, Protein and Relative water content in crop plants. International Journal of Biosciences, 2014, 5, 89-100. | 0.4 | 6 |
| 497 | Irrigation Water Strategies for the Buriti Vermelho Watershed: Towards a Higher Water Productivity. , 2014, , . | | 1 |
| 498 | Deficit Irrigation Strategies for the Western U.S.. Transactions of the ASABE, 2020, 63, 1813-1825. | 1.1 | 7 |
| 499 | A Global and Spatially Explicit Assessment of Climate Change Impacts on Crop Production and Consumptive Water Use. PLoS ONE, 2013, 8, e57750. | 1.1 | 83 |

| # | Article | IF | Citations |
|---|---|---|---|
| 500 | Investigation of Water Dynamics and the Effect of Evapotranspiration on Grain Yield of Rainfed Wheat and Barley under a Mediterranean Environment: A Modelling Approach. PLoS ONE, 2015, 10, e0131360. | 1.1 | 9 |
| 501 | Soil Texture and Cultivar Effects on Rice (Oryza sativa, L.) Grain Yield, Yield Components and Water Productivity in Three Water Regimes. PLoS ONE, 2016, 11, e0150549. | 1.1 | 69 |
| 502 | Temporal Variations of Water Productivity in Irrigated Corn: An Analysis of Factors Influencing Yield and Water Use across Central Nebraska. PLoS ONE, 2016, 11, e0161944. | 1.1 | 14 |
| 503 | Root-Knot Nematode (Meloidogyne javanica) â€“ Deficit Irrigation Interactions on Eggplant Cropped under Open Field Conditions. Journal of Horticultural Research, 2016, 24, 73-78. | 0.4 | 2 |
| 504 | 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. | 0.9 | 17 |
| 505 | The effect of different agricultural management practices on irrigation efficiency, water use efficiency and green and blue water footprint. Frontiers of Agricultural Science and Engineering, 2017, 4, 185. | 0.9 | 29 |
| 506 | Footprinting methods for assessment of the environmental impacts of food production and processing. , 2010, , 255-271. | | 4 |
| 507 | WATER USE EFFICIENCY OF RICE AND SOYBEAN UNDER DRIP IRRIGATION WITH MULCH IN THE SOUTH-EAST OF KAZAKHSTAN. Applied Ecology and Environmental Research, 2017, 15, 1581-1603. | 0.2 | 4 |
| 508 | ASSESSING GROUNDWATER POTENTIAL USE FOR EXPANDING IRRIGATION IN THE BURITI VERMELHO WATERSHED. Irriga, 2015, 1, 81-94. | 0.2 | 13 |
| 509 | Actual crop water use in project countries a synthesis at the regional level. Policy Research Working Papers, 2007, , . | 1.4 | 5 |
| 510 | How to Assess Agricultural Water Productivity? Looking for Water in the Agricultural Productivity and Efficiency Literature. Policy Research Working Papers, 2014, , . | 1.4 | 21 |
| 512 | Optimal Supply of Water and Nitrogen Improves Grain Yield, Water Use Efficiency and Crop Nitrogen Recovery in Wheat. International Journal of Agriculture and Biology, 2016, 18, 245-256. | 0.2 | 4 |
| 513 | WATER FOOTPRINT ASSESSMENT OF THE ETHYL ALCOHOL PRODUCTION. Environmental Engineering and Management Journal, 2014, 13, 2087-2096. | 0.2 | 1 |
| 514 | Drops for crops: modelling crop water productivity on a global scale. Global Nest Journal, 2013, 10, 295-300. | 0.3 | 2 |
| 515 | Water productivity for Boro Rice production: study on floodplain Beels in Rajshahi, Bangladesh. Journal of Bio-science, 0, 21, 123-136. | 0.1 | 2 |
| 516 | Simulating Soil Water Dynamics and Its Effects on Crop Yield Using RZWQM- CERES in the North China Plain. Acta Agronomica Sinica(China), 2009, 35, 1122-1130. | 0.1 | 7 |
| 517 | Comparative Evaluation of Physicochemical Properties of Corn Flours Through Different Water Qualities and Irrigation Methods. Journal of Applied Sciences, 2009, 9, 938-943. | 0.1 | 14 |
| 518 | Assessing Yield, Water Use Efficiency and Evapotranspiration with Ameliorating Effect of Potassium in Wheat Crop Exposed to Regulated Deficit Irrigation. Pakistan Journal of Nutrition, 2014, 13, 168-175. | 0.2 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 519 | Rice Production and Water use Efficiency for Self-Sufficiency in Malaysia: A Review. Trends in Applied Sciences Research, 2011, 6, 1127-1140. | 0.4 | 32 |
| 520 | 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. | 0.3 | 10 |
| 521 | 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. | 0.3 | 2 |
| 522 | Response of Rice Varieties to Water Stress in Sokoto, Sudan Savannah, Nigeria. Journal of Biosciences and Medicines, 2014, 02, 68-74. | 0.1 | 16 |
| 523 | The Need for Agricultural Water Management in Sub-Saharan Africa. Journal of Water Resource and Protection, 2016, 08, 835-843. | 0.3 | 17 |
| 524 | Wheat Yield Response to Water Deficit under Central Pivot Irrigation System Using Remote Sensing Techniques. World Journal of Engineering and Technology, 2015, 03, 65-72. | 0.3 | 4 |
| 525 | Sentinel-1 Radar Data Assessment to Estimate Crop Water Stress. World Journal of Engineering and Technology, 2017, 05, 47-55. | 0.3 | 6 |
| 526 | 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. | 1.9 | 15 |
| 530 | Remotely Sensed Evapotranspiration Data Assimilation for Crop Growth Modeling. , 0, , . | | 5 |
| 532 | Yield and water productivity of maize and wheat under deficit and raised bed irrigation practices in Egypt. African Journal of Agricultural Research Vol Pp, 2012, 7, . | 0.2 | 13 |
| 533 | Effects of Phenology-based Irrigation Scheduling and Nitrogen on Light Interception, Water Productivity and Energy Balance of Maize (Zea maysL.). Journal of the Indian Society of Soil Science, 2015, 63, 39. | 0.1 | 5 |
| 534 | Assessing the impacts of irrigation termination periods on cotton productivity under strategic deficit irrigation regimes. Scientific Reports, 2021, 11, 20102. | 1.6 | 18 |
| 535 | Impact of drought stress on biochemical responses, energy, and water productivity on maize forage (Zea mays L.). SN Applied Sciences, 2021, 3, 1. | 1.5 | 2 |
| 536 | Greenhouse gas emissions and mitigation potential of hybrid maize seed production in northwestern China. Environmental Science and Pollution Research, 2022, 29, 17787-17798. | 2.7 | 7 |
| 537 | Analysis of the groundwater scenario with respect to the crop water productivity for the Betwaâ€"Dhasan river basin, Bundelkhand using remote sensing techniques. Journal of Earth System Science, 2021, 130, 1. | 0.6 | 3 |
| 538 | 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. | 2.4 | 13 |
| 539 | How does plastic film mulching affect crop water productivity in an arid river basin?. Agricultural Water Management, 2021, 258, 107218. | 2.4 | 12 |
| 540 | Soil water management in India. , 2010, , 29-42. | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 541 | THE STUDY AREA2. , 2010, , 49-58. | | 0 |
| 543 | Temporal variability of the water requirement and productivity for irrigated maize crop. Revista Ambiente & Ãgua, 2011, 6, 54-60. | 0.1 | 0 |
| 544 | Effect of irrigation regime and method of strip irrigation system on yield, yield components and water use efficiency of cotton under drought stress conditions of Orzouiyeh region of Kerman province in Iran. Scientific Research and Essays, 2011, 6, . | 0.1 | 1 |
| 545 | Crop Evapotranspiration and Water Use Efficiency. , 0, , . | | 0 |
| 546 | RATIONALIZATION OF IRRIGATION WATER IN AGRICULTURAL SECTOR THROUGH INTEGRATED WATER MANAGEMENT AND COMMUNITY PARTICIPATION. Fayoum Journal of Agricultural Research and Development, 2012, 26, 16-29. | 0.0 | 1 |
| 547 | Marginal Water in Agriculture and Food Crisis in Sub-Saharan Africa. , 2013, , 681-697. | | 0 |
| 548 | Assessment of yield and water use efficiency of durum wheat as affected by irrigation practices and soil properties in the irrigated area of oued rmel in Tunisia. IOSR Journal of Environmental Science, Toxicology and Food Technology, 2013, 7, 25-39. | 0.1 | 0 |
| 549 | Irrigation Performance Assessments for Corn Crop With Landsat Images in the SÃ£o Paulo State, Brazil. , 2014, , . | | 3 |
| 550 | Response of Leaf Area Index, Vegetative and Reproductive Phases of Two Cotton (Gossypium Hirsutum) Tj ETQq0 0 0 rgBT /Overlock 10 31-37. | 0.3 | 1 |
| 551 | 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. | 0.2 | 3 |
| 553 | QUANTIFYING WATER BALANCE OF SUBAK PADDY FIELD BASED ON CONTINUOUS FIELD MONITORING. Jurnal Teknologi (Sciences and Engineering), 2015, 76, . | 0.3 | 2 |
| 554 | Integrated Natural Resource Management in India Through Participatory Integrated Watershed Management. , 2017, , 513-530. | | 1 |
| 555 | Effects of Water Saving Practices on Winter Wheat and Summer Maize Yields in South Loess Plateau of Northwest China. Agrotechnology, 2017, 06, . | 0.1 | 0 |
| 556 | Impact of Some Plant Growth Regulating Substances on the Yield and its Components of Giza179 and Giza177 Rice Cultivars under Different Irrigation Interval Treatments.. Journal of Plant Production, 2017, 8, 369-379. | 0.0 | 0 |
| 557 | 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 | 0 |
| 558 | WATER USE IN IRRIGATED AGRICULTURE: AN APPROACH TO WATER PRODUCTIVITY IN DRIP AND SPRINKLER SYSTEMS. Revista Brasileira De Agricultura Irrigada, 2017, 11, 1677-1684. | 0.2 | 1 |
| 559 | IMPROVE WATER PRODUCTIVITY OF WHEAT IN SHALLOW WATER TABLE AREA IN THE NORTH NILE DELTA, EGYPT. Menoufia Journal of Soil Science, 2017, 2, 331-350. | 0.1 | 0 |
| 560 | Remote Sensing-Based Evapotranspiration Modelling for Agricultural Water Management in the Limpopo Basin. Advances in Geospatial Technologies Book Series, 2018, , 50-85. | 0.1 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 561 | Crop production with limited irrigation: A review. Agricultural Reviews, 2018, 38, . | 0.1 | 0 |
| 562 | Growth Physiology of Local Rice Varieties under Moisture Stress Condition. International Journal of Plant & Soil Science, 2018, 22, 1-9. | 0.2 | 1 |
| 563 | á»¨ng dá»¥ng mÃ´ hÃ¬nh toÃ¡n tá»‘i Æ°u vÃ Ä‘Ã¡nh giÃ¡ Ä‘a tiÃªu chÃ-trong lá°p quy hoá°¡ch sá»-dá»¥ng Ä‘á°¥t nÃ´ng nghiá»‡p bá»n vá» Giá»“ng Riá»ng, tá»‰nh KiÃªn Giang. Tap Chi Khoa Hoc = Journal of Science, 2019, 55(Environment), 61. | 0.1 | 0 |
| 564 | Remote Sensing-Based Evapotranspiration Modelling for Agricultural Water Management in the Limpopo Basin. , 2019, , 249-286. | | 0 |
| 565 | Sustainable Water Management. , 2019, , 133-166. | | 1 |
| 566 | EFFECT OF IRRIGATION SYSTEMS IMPROVEMENT ON WATER UNIT PRODUCTIVITY UNDER NORTH DELTA REGION CONDITIONS OF EGYPT. Arab Universities Journal of Agricultural Sciences, 2019, 27, 905-912. | 0.0 | 1 |
| 567 | Farm-based Evaluation of Sustainable Alternative Irrigation Practices. Engineering, Technology & Applied Science Research, 2019, 9, 4310-4314. | 0.8 | 3 |
| 568 | Simulating Crop Evapotranspiration Response under Different Planting Scenarios for Irrigation Water Management under Climate Change: A Review. International Journal of Current Microbiology and Applied Sciences, 2019, 8, 2706-2722. | 0.0 | 1 |
| 569 | LINKING CROP WATER PRODUCTIVITY TO SOIL PHYSICAL, CHEMICAL AND MICROBIAL PROPERTIES. Frontiers of Agricultural Science and Engineering, 2021, 8, 545. | 0.9 | 4 |
| 570 | Water Resource and Use Efficiency Under Changing Climate. , 2020, , 519-576. | | 3 |
| 571 | EVALUATION OF AN AUTOMATIC CONTROL SYSTEM WITH DRIP IRRIGATION SYSTEM SHOWING POOR HYDRAULIC PERFORMANCE. INMATEH - Agricultural Engineering, 2020, 60, 155-162. | 0.1 | 0 |
| 572 | 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, 0, 470, 012002. | 0.2 | 0 |
| 573 | 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. | 0.3 | 2 |
| 574 | Comparison of aerobic rice cultivation using drip systems with conventional flooding. Journal of Agricultural Science, 2021, 159, 544-556. | 0.6 | 9 |
| 575 | Analyse typologique et performance productive de la culture du blÃ© dur irriguÃ© en Tunisie. Cahiers Agricultures, 2020, 29, 24. | 0.4 | 3 |
| 576 | Response of Rabi Maize to Different Methods of Irrigation and Fertigation. Bioscience Biotechnology Research Communications, 2020, 13, 2181-2186. | 0.1 | 0 |
| 577 | Crop and Residue Management Improves Productivity and Profitability of Riceâ€“Maize System in Salt-Affected Rainfed Lowlands of East India. Agronomy, 2020, 10, 2019. | 1.3 | 6 |
| 578 | Irrigation Water Use Efficiency and Economic Water Productivity of Different Plants Under Egyptian Conditions. Springer Water, 2020, , 205-219. | 0.2 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 579 | 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. | 0.2 | 1 |
| 580 | Effect of Water Irrigation Management and Nitrogen Fertilizer Sources on Water Productivity and Quality of Some Egyptian Cotton Cultivar. Misr Journal of Agricultural Engineering, 2020, . | 0.1 | 0 |
| 581 | Non-energy Natural Resource Demand. Green Energy and Technology, 2009, , 75-100. | 0.4 | 0 |
| 583 | Improving Water Productivity for Smallholder Rice Farmers in the Upper West Region of Ghana: A Review of Sustainable Approaches. , 2021, , 231-262. | | 0 |
| 584 | 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. | 2.4 | 6 |
| 585 | Spatiotemporal variations of water productivity for cropland and driving factors over China during 2001â€“2015. Agricultural Water Management, 2022, 262, 107328. | 2.4 | 8 |
| 586 | 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 | 0 |
| 587 | Soil management strategies enhanced crop yield, soil moisture, and water productivity in Nitisols of the Upper Eastern Kenya. Environmental Challenges, 2021, 5, 100375. | 2.0 | 5 |
| 588 | Translating open-source remote sensing data to crop water productivity improvement actions. Agricultural Water Management, 2022, 261, 107373. | 2.4 | 8 |
| 589 | IMPACT OF DRIP AND GATED PIPE IRRIGATION SYSTEMS, INTERVALS ON YIELD, PRODUCTIVITY OF IRRIGATION WATER AND QUALITY OF TWO COMMON BEAN (PHASEOLUS VULGARIS L) CULTIVARS IN HEAVY CLAY SOIL. Egyptian Journal of Chemistry, 2020, . | 0.1 | 1 |
| 590 | 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. | 0.3 | 0 |
| 593 | Adaptation strategies to increase water productivity of wheat under changing climate. Agricultural Water Management, 2022, 264, 107499. | 2.4 | 7 |
| 594 | Annual Rainfall and Dryland Cotton Lint Yieldâ€"Southern High Plains of Texas. Agricultural Sciences, 2022, 13, 177-200. | 0.2 | 1 |
| 595 | Maize grain yield and crop water productivity functions in the arid Northwest U.S.. Agricultural Water Management, 2022, 264, 107513. | 2.4 | 4 |
| 596 | Water-Saving Techniques and Practices for On-Farm Surface Irrigation Systems. , 2021, 3, . | | 2 |
| 598 | Spatial variability assessment of irrigation performance in the Lower Usuthu Smallholder Irrigation Project (LUSIP) in Eswatini. Modeling Earth Systems and Environment, 0, , 1. | 1.9 | 0 |
| 599 | Factors determining water use efficiency in aerobic rice. , 2022, 1, 24-40. | | 18 |
| 600 | Blueâ€"green water utilization in riceâ€"fish cultivation towards sustainable food production. Ambio, 2022, 51, 1933-1948. | 2.8 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 601 | 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. | 1.8 | 8 |
| 602 | 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. | 2.4 | 19 |
| 603 | 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, . | 0.6 | 4 |
| 604 | Performance Evaluation of a Minor of Upper Ganga Canal System Using Geospatial Technology and Secondary Data. Water Science and Technology Library, 2022, , 155-172. | 0.2 | 1 |
| 606 | Climate change and modernization drive structural realignments in European grain production. Scientific Reports, 2022, 12, 7374. | 1.6 | 12 |
| 607 | 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. | 1.9 | 8 |
| 608 | Grain yield, actual evapotranspiration and water productivity responses of maize crop to deficit irrigation: A global meta-analysis. Agricultural Water Management, 2022, 270, 107746. | 2.4 | 10 |
| 610 | Sustainable irrigation technologies: a water-energy-food (WEF) nexus perspective towards achieving more crop per drop per joule per hectare. Environmental Research Letters, 2022, 17, 073003. | 2.2 | 6 |
| 611 | 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, 0, 13, . | 1.7 | 12 |
| 612 | 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. | 1.0 | 2 |
| 613 | 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. | 0.4 | 0 |
| 614 | 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. | 2.5 | 7 |
| 615 | Changing patterns of soil water content and relationship with national wheat and maize production in Europe. European Journal of Agronomy, 2022, 140, 126579. | 1.9 | 3 |
| 616 | Modeling Cereals Water Productivity by Remote Sensing in Lebna Basin, Tunisia. , 2022, , . | | 0 |
| 617 | Closing the irrigation water productivity gap to alleviate water shortage in an endorheic basin. Science of the Total Environment, 2022, 853, 158449. | 3.9 | 4 |
| 618 | Water and productivity accounting using WA+ framework for sustainable water resources management: Case study of northwestern Iran. Physics and Chemistry of the Earth, 2022, 128, 103245. | 1.2 | 3 |
| 619 | Salt Affected Soils: Global Perspectives. Environmental Science and Engineering, 2022, , 107-129. | 0.1 | 2 |
| 620 | Smart sensing and automated irrigation for sustainable rice systems: A state of the art review. Advances in Agronomy, 2023, , 259-285. | 2.4 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 621 | Optimizing Planting Density to Increase Maize Yield and Water Use Efficiency and Economic Return in the Arid Region of Northwest China. Agriculture (Switzerland), 2022, 12, 1322. | 1.4 | 4 |
| 622 | Water budgeting in major rabi crops under surface irrigation in Western Indo-Gangetic Plains. , 2020, 90, 2185-2191. | | 0 |
| 623 | Crop Water Productivity Mapping and Benchmarking Using Remote Sensing and Google Earth Engine Cloud Computing. Remote Sensing, 2022, 14, 4934. | 1.8 | 7 |
| 624 | Water production function and optimal irrigation schedule for rice (Oryza sativa L.) cultivation with drip irrigation under plastic film-mulched. Scientific Reports, 2022, 12, . | 1.6 | 7 |
| 625 | A Modified Shape Model Incorporating Continuous Accumulated Growing Degree Days for Phenology Detection of Early Rice. Remote Sensing, 2022, 14, 5337. | 1.8 | 2 |
| 626 | Deep fertilization improves rice productivity and reduces ammonia emissions from rice fields in China; a meta-analysis. Field Crops Research, 2022, 289, 108704. | 2.3 | 15 |
| 627 | Pre-and post-sowing irrigation scheduling impacts on crop phenology and water productivity of cotton (Gossypium hirsutum L.) in sub-tropical north-western India. Agricultural Water Management, 2022, 274, 107982. | 2.4 | 5 |
| 628 | Modelling the Effect of Irrigation Deficit on Maize Growth with Logistic Regression. Communications in Soil Science and Plant Analysis, 2023, 54, 1293-1305. | 0.6 | 1 |
| 629 | Relationship of Maize Yield to Climatic and Environmental Factors under Deficit Irrigation: A Quantitative Review. International Journal of Agronomy, 2022, 2022, 1-12. | 0.5 | 0 |
| 631 | Simulation-optimization based real-time irrigation scheduling: A human-machine interactive method enhanced by data assimilation. Agricultural Water Management, 2023, 276, 108059. | 2.4 | 4 |
| 632 | 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. African Journal of Agricultural Research Vol Pp, 2022, 18, 1089-1101. | 0.2 | 0 |
| 633 | Evaluation of Water Productivity in the Main Areas of Potato Cultivation in Iran. Potato Research, 0, , . | 1.2 | 0 |
| 634 | Alternate wet and dry irrigation technology as a sustainable water management and disease vector control tool. Environmental Quality Management, 2023, 33, 23-42. | 1.0 | 0 |
| 635 | Effects of irrigation levels and nitrogen fertilizer rate on grain yield of wheat (Triticum aestivum) at Amibara, Middle Awash, Ethiopia. Journal of Soil Science and Environmental Management, 2022, 13, 11-16. | 0.4 | 0 |
| 636 | A Comprehensive Review of the Multiple Uses of Water in Aquaculture-Integrated Agriculture Based on International and National Experiences. Water (Switzerland), 2023, 15, 367. | 1.2 | 12 |
| 637 | Wheat phenology detection with the methodology of classification based on the time-series UAV images. Field Crops Research, 2023, 292, 108798. | 2.3 | 6 |
| 638 | Assessing the biophysical factors affecting irrigation performance in rice cultivation using remote sensing derived information. Agricultural Water Management, 2023, 278, 108124. | 2.4 | 1 |
| 639 | Effects of Drip Irrigation and Top Dressing Nitrogen Fertigation on Maize Grain Yield in Central Poland. Agronomy, 2023, 13, 360. | 1.3 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 640 | Phenology-Based Remote Sensing Assessment of Crop Water Productivity. Water (Switzerland), 2023, 15, 329. | 1.2 | 2 |
| 641 | Moving from measurement to governance of shared groundwater resources. , 2023, 1, 30-36. | | 10 |
| 642 | Green, blue and economic water productivity: a water footprint perspective from the Upper Awash Basin, Central Ethiopia. Journal of Water and Climate Change, 2023, 14, 559-575. | 1.2 | 2 |
| 643 | Evaluation of Photosynthetic Parameters and Their Relationships with Grain Yield in Red Bean Lines in Field Conditions. Journal of Crop Breeding, 2021, 13, 63-76. | 0.4 | 0 |
| 644 | Simulation of water productivity of wheat in northwestern Bangladesh using multi-satellite data. Agricultural Water Management, 2023, 281, 108242. | 2.4 | 5 |
| 645 | Evaluation of Agro-Physiological Characteristics and Drought Tolerance in Some of Durum Wheat Breeding Genotypes. Journal of Crop Breeding, 2020, 12, 117-135. | 0.4 | 2 |
| 646 | Estimating evapotranspiration and yield of wheat and maize croplands through a remote sensing-based model. Agricultural Water Management, 2023, 282, 108294. | 2.4 | 7 |
| 647 | Droughts, Deluges, and (River) Diversions: Valuing Market-Based Water Reallocation. American Economic Review, 2023, 113, 430-471. | 4.0 | 4 |
| 648 | Water use efficiency: A review of spatial and temporal variability. , 2023, , 527-542. | | 0 |
| 650 | Advances in Micro-Irrigation Practices for Improving Water Use Efficiency in Dryland Agriculture. , 2023, , 157-176. | | 0 |
| 651 | Enhancing Agricultural Water Productivity Using Deficit Irrigation Practices in Water-Scarce Regions. , 2023, , 177-206. | | 1 |
| 652 | Consommation d'eau et croissance de la productivitÃ© agricole en Afrique subsaharienne. Revue D'Economie Du Developpement, 2023, Vol. 30, 97-134. | 0.0 | 1 |
| 653 | Evaluating the Water Productivity Management Performance in Irrigation Networks (Case Study:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 251-259. | 0.0 | 0 |
| 654 | Modelling maize yield impacts of improved water and fertilizer management in southern Africa using Cropping System Model coupled to an Agroâ€"Hydrological Model at field and catchment scale. Journal of Agricultural Science, 0, , 1-58. | 0.6 | 0 |
| 655 | Soil management for salt-affected soil. , 2023, , 99-128. | | 1 |
| 661 | Remote Sensing Monitoring of Water Productivity in Agricultural Crops: A Review. Advances in Geographical and Environmental Sciences, 2023, , 17-26. | 0.4 | 0 |
| 663 | Investigation of water productivity of wheat in some irrigation and drainage networks of Khuzestan. Arabian Journal of Geosciences, 2023, 16, . | 0.6 | 0 |
| 664 | An IoT Based Cost Effective Intelligent Irrigation System for Farmers. , 2023, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 680 | Application of Water Accounting Plus Framework for the Assessment of the Water Consumption Pattern and Food Security. Disaster Resilience and Green Growth, 2023, , 257-269. | 0.2 | 0 |
| 687 | Scaling Mechanization and Profitability in Maize Cultivation through Innovative Maize Planters along with Agroforestry Approach: Sustainable and Climate Smart Approach to Diversify Rice Based Cereal Systems in Various Regions. , 0, , . | | 0 |
| 688 | Managing Agricultural Water Productivity in a Changing Climate Scenario in Indo-Gangetic Plains. , 2024, , 281-332. | | 0 |