Field water management to save water and increase its productivity in irrigated lowland rice

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#	Paper	IF	Citations
786	On-farm strategies for reducing water input in irrigated rice; case studies in the Philippines. *Agricultural Water Management*, **2002**, 56, 93-112	5.9	248
785	Comparing water input and water productivity of transplanted and direct-seeded rice production systems. *Agricultural Water Management*, **2002**, 57, 11-31	5.9	73
784	Mass balance analysis in Korean paddy rice culture. *Paddy and Water Environment*, **2003**, 1, 99-106	1.6	49
783	Arsenic contamination of Bangladesh paddy field soils: implications for rice contribution to arsenic consumption. **2003**, 37, 229-34		757
782	Enhancing water policy discussions by including analysis of non-water inputs and farm-level constraints. *Agricultural Water Management*, **2003**, 62, 93-103	5.9	12
781	Variation in rice quality of different cultivars and grain positions as affected by water management. *Field Crops Research*, **2003**, 80, 245-252	5.5	58
780	Effects of Water-Saving Irrigation and Nitrogen Fertilization on Yield and Yield Components of Rice (Oryza sativa L.). **2004**, 7, 337-346		20
779	Assessment and water saving issues for Ningxia paddies, upper Yellow River Basin. *Paddy and Water Environment*, **2004**, 2, 99	1.6	13
778	Effect of irrigation method and N-fertilizer management on rice yield, water productivity and nutrient-use efficiencies in typical lowland rice conditions in China. *Paddy and Water Environment*, **2004**, 2, 195-206	1.6	118
777	Percolation losses of water in relation to pre-puddling tillage and puddling intensity in a puddled sandy loam rice (Oryza sativa L.) field. **2004**, 78, 1-8		19
776	Effect of water-saving irrigation on rice yield and water use in typical lowland conditions in Asia. *Agricultural Water Management*, **2004**, 65, 193-210	5.9	393
775	Rice root growth and nutrient uptake as influenced by organic manure in continuously and alternately flooded paddy soils. *Agricultural Water Management*, **2004**, 70, 67-81	5.9	215
774	A critical assessment of the system of rice intensification (SRI). **2004**, 79, 261-281		161
773	Modelle zum Stickstoffhaushalt. **2004**, 1-42		
772	The effects of surface water abstraction for rice irrigation on floodplain fish production in Bangladesh. **2005**, 3, 61		14
771	Crop performance, nitrogen and water use in flooded and aerobic rice. **2005**, 273, 167-182		122
770	Soil matric potential-based irrigation scheduling to rice (Oryza sativa). **2005**, 23, 153-159		67

769	Model development for surface drainage loading estimates from paddy rice fields. *Paddy and Water Environment*, **2005**, 3, 93-101	1.6	26
768	Water Saving by Shallow Intermittent Irrigation and Growth of Rice. **2005**, 8, 487-492		23
767	Water Saving in Rice-Wheat Systems. **2005**, 8, 242-258		62
766	More Rice, Less Waterâ Integrated Approaches for Increasing Water Productivity in Irrigated Rice-Based Systems in Asia. **2005**, 8, 231-241		269
765	Response of Lowland and Aerobic Rice to Ammonium and Nitrate Supply During Early Growth Stages. **2005**, 28, 1495-1510		17
764	Interactions between non-flooded mulching cultivation and varying nitrogen inputs in riceâ wheat rotations. *Field Crops Research*, **2005**, 91, 307-318	5.5	50
763	Nitrogen economy and water productivity of lowland rice under water-saving irrigation. *Field Crops Research*, **2005**, 93, 169-185	5.5	127
762	Which crop and which drop, and the scope for improvement of water productivity. *Agricultural Water Management*, **2005**, 73, 113-130	5.9	53
761	Yield and water use of irrigated tropical aerobic rice systems. *Agricultural Water Management*, **2005** , 74, 87-105	5.9	370
760	Performance of temperate aerobic rice under different water regimes in North China. *Agricultural Water Management*, **2005**, 74, 107-122	5.9	79
759	Decision support framework for assessment of non-point-source pollution of groundwater in large irrigation projects. *Agricultural Water Management*, **2005**, 75, 194-225	5.9	86
758	Nitrate Effect on Rice Growth and Nitrogen Absorption and Assimilation at Different Growth Stages . **2006**, 16, 707-717		32
757	The System of Rice Intensification (SRI): a challenge for science, and an opportunity for farmer empowerment towards sustainable agriculture. **2006**, 4, 193-212		56
756	TechnoGIN, a tool for exploring and evaluating resource use efficiency of cropping systems in East and Southeast Asia. **2006**, 87, 80-100		27
755	Water productivity analysis of irrigated crops in Sirsa district, India. *Agricultural Water Management*, **2006**, 82, 253-278	5.9	79
754	Application of a rice growth and water balance model in an irrigated semi-arid subtropical environment. *Agricultural Water Management*, **2006**, 83, 51-57	5.9	43
753	Role of straw mulching in non-continuously flooded rice cultivation. *Agricultural Water Management*, **2006**, 83, 252-260	5.9	51
752	Comparison between aerobic and flooded rice in the tropics: Agronomic performance in an eight-season experiment. *Field Crops Research*, **2006**, 96, 252-259	5.5	163

751	Performance of aerobic rice varieties under irrigated conditions in North China. *Field Crops Research* , **2006**, 97, 53-65	5.5	103
750	Integration of approaches to increasing water use efficiency in rice-based systems in southeast Australia. *Field Crops Research*, **2006**, 97, 19-33	5.5	34
749	Water quality modeling to evaluate BMPs in rice paddies. **2006**, 53, 253-61		1
748	Puddling, irrigation, and transplanting-time effects on productivity of riceâ□wheat system on a sandy loam soil of Punjab, India. **2006**, 85, 212-220		25
747	Opportunities for water saving with higher yield from the system of rice intensification. **2006**, 25, 99-115		97
746	Weed management in dry-seeded rice (Oryza sativa) cultivated in the furrow-irrigated raised-bed planting system. **2006**, 25, 487-495		56
745	Growth of Three Rice Cultivars (Oryza sativa L.) under Upland Conditions with Different Levels of Water Supply. **2006**, 9, 435-445		27
744	Transforming Inundated Rice Cultivation. **2006**, 22, 87-100		13
743	Water use efficiency of rice (Oryza sativa L.) under intermittent ponding and different intensity of puddling. **2006**, 52, 339-346		
742	Spatial Distribution of Leaf Area Index and Leaf N Content In Relation To Grain Yield and Nitrogen Uptake in Rice. **2007**, 10, 136-145		9
741	Exploring options for water savings in lowland rice using a modelling approach. **2007**, 92, 91-114		96
740	A conceptual framework for the improvement of crop water productivity at different spatial scales. **2007**, 93, 43-60		177
739	Modelling the effect of groundwater depth on yield-increasing interventions in rainfed lowland rice in Central Java, Indonesia. **2007**, 92, 115-139		56
738	Water use efficiency and economic feasibility of growing rice and wheat with sprinkler irrigation in the Indus Basin of Pakistan. *Agricultural Water Management*, **2007**, 87, 292-298	5.9	67
737	Exploring options to grow rice using less water in northern China using a modelling approach. *Agricultural Water Management*, **2007**, 88, 23-33	5.9	110
736	Exploring options to grow rice using less water in northern China using a modelling approach: I. Field experiments and model evaluation. *Agricultural Water Management*, **2007**, 88, 1-13	5.9	106
735	Scale effects on water use and water productivity in a rice-based irrigation system (UPRIIS) in the Philippines. *Agricultural Water Management*, **2007**, 92, 81-89	5.9	44
734	Yield and water productivity of riceâ□wheat on raised beds at New Delhi, India. *Field Crops Research*, **2007**, 100, 229-239	5.5	83

733	Rice and Water. **2007**, 92, 187-237		333
732	Options for water saving in tropical humid and semi-arid regions using optimum compost application rates. **2007**, 56, 87-98		5
731	WATER MANAGEMENT AND N, P LOSSES FROM PADDY FIELDS IN SOUTHERN KOREA1. **2007**, 42, 1205-1216		7
730	Water-Saving and High-Yielding Irrigation for Lowland Rice by Controlling Limiting Values of Soil Water Potential. **2007**, 49, 1445-1454		109
729	Technological progress for sustaining food-population balance: achievement and challenges. **2007**, 37, 161-172		4
728	Evaluation of mulching, intercropping with Sesbania and herbicide use for weed management in dry-seeded rice (Oryza sativa L.). **2007**, 26, 518-524		80
727	Alleviating soil sickness caused by aerobic monocropping: responses of aerobic rice to soil oven-heating. **2007**, 300, 185-195		21
726	Fluxes of methane and nitrous oxide in water-saving rice production in north China. **2007**, 77, 293-304		74
725	Why grain yield of transplanted rice on permanent raised beds declines with time?. **2008**, 99, 261-267		15
724	Optimizing yield, water requirements, and water productivity of aerobic rice for the North China Plain. **2008**, 26, 459-474		36
723	Estimation of paddy water productivity (WP) using hydrological model: an experimental study. *Paddy and Water Environment*, **2008**, 6, 327-339	1.6	19
722	Effects of irrigation and nitrogen on the performance of aerobic rice in northern China. **2008**, 50, 1589-600		11
721	Effects of Irrigation Patterns during Grain Filling on Grain Quality and Concentration and Distribution of Cadmium in Different Organs of Rice. **2008**, 34, 456-464		8
720	Modified rice cultivation in Tamil Nadu, India: Yield gains and farmersâ(lack of) acceptance. **2008**, 98, 82-94		65
719	A cross disciplinary framework for linking farms with regional groundwater and salinity management targets. *Agricultural Water Management*, **2008**, 95, 35-47	5.9	31
718	Alleviating soil sickness caused by aerobic monocropping: Responses of aerobic rice to nutrient supply. *Field Crops Research*, **2008**, 107, 129-136	5.5	20
717	Yield, grain quality and water use efficiency of rice under non-flooded mulching cultivation. *Field Crops Research*, **2008**, 108, 71-81	5.5	114
716	Evaluation of system of rice intensification (SRI) component practices and their synergies on salt-affected soils. *Field Crops Research*, **2008**, 109, 34-44	5.5	39

715	Prediction of soil property distribution in paddy soil landscapes using terrain data and satellite information as indicators. **2008**, 8, 485-501		132
714	SMALL-SCALE FARMERS' PERCEPTIONS AND KNOWLEDGE OF TREE INTERCROPPING SYSTEMS IN THE KHOREZM REGION OF UZBEKISTAN. **2008**, 18, 355-372		15
713	Managing Soil Water to Improve Rainfed Agriculture in India. **2008**, 32, 51-75		23
712	Soil Fertility Advantages of Submerged Rice Cropping Systems. **2008**, 31, 5-23		8
711	Water Productivity of Modern Variety of Paddy Production: Rice-prawn and Year-round Paddy Farming Systems in Bangladesh. **2008**, 18, 99-118		4
710	Postanthesis Moderate Wetting Drying Improves Both Quality and Quantity of Rice Yield. **2008**, 100, 726-734		78
709	Application of a Crop Growth Simulation Model for enhancing the Water Use Efficiency. **2008**,		
708	Soil Water Management in India. **2009**, 23, 55-70		4
707	Growth and Yield of Six Rice Cultivars under Three Water-saving Cultivations. **2009**, 12, 514-525		48
706	RETRACTED: Strategies for Producing More Rice with Less Water. **2009**, e1		49
705	INFLUENCE OF THE SYSTEM OF RICE INTENSIFICATION ON RICE YIELD AND NITROGEN AND WATER USE EFFICIENCY WITH DIFFERENT N APPLICATION RATES. **2009**, 45, 275-286		77
704	Alternate wetting and moderate soil drying increases grain yield and reduces cadmium accumulation in rice grains. **2009**, 89, 1728-1736		63
703	Genotypic differences in root hydraulic conductance of rice (Oryza sativa L.) in response to water regimes. **2009**, 316, 25-34		49
702	Alleviating soil sickness caused by aerobic monocropping: Responses of aerobic rice to various nitrogen sources. **2009**, 55, 150-159		21
701	Improvement in nitrogen availability, nitrogen uptake and growth of aerobic rice following soil acidification. **2009**, 55, 705-714		17
700	Crop performance in permanent raised bed riceâ□wheat cropping system in Punjab, India. *Field Crops Research*, **2009**, 110, 1-20	5.5	61
699	Transpiration efficiency of rice (Oryza sativa L.). *Field Crops Research*, **2009**, 111, 1-10	5.5	31
698	Possible causes of yield failure in tropical aerobic rice. *Field Crops Research*, **2009**, 111, 197-206	5.5	67

697	Response of aerobic rice growth and grain yield to N fertilizer at two contrasting sites near Beijing, China. *Field Crops Research*, **2009**, 114, 45-53	5.5	43
696	Evaluation of management principles and performance of the System of Rice Intensification (SRI) in Bangladesh. *Field Crops Research*, **2009**, 114, 255-262	5.5	22
695	Yield and water productivity of rice as affected by time of transplanting in Punjab, India. *Agricultural Water Management*, **2009**, 96, 525-532	5.9	54
694	Integrated effect of transplanting date, cultivar and irrigation on yield, water saving and water productivity of rice (Oryza sativa L.) in Indian Punjab: Field and simulation study. *Agricultural Water Management*, **2009**, 96, 1096-1104	5.9	47
693	Comparing water management in riceâ□wheat production systems in Haryana, India and Punjab, Pakistan. *Agricultural Water Management*, **2009**, 96, 1799-1806	5.9	24
692	Chapter 2 Climate Change Affecting Rice Production. **2009**, 59-122		269
691	Effects of Plant Density and Nitrogen Application Rate on Grain Yield and Nitrogen Uptake of Super Hybrid Rice. **2009**, 16, 138-142		26
690	Quantifying N response and N use efficiency in riceâ□wheat (RW) cropping systems under different water management. **2009**, 147, 303-312		20
689	The relationship of grain filling with abscisic acid and ethylene under non-flooded mulching cultivation. **2009**, 147, 423-436		19
688	An Alternate Wetting and Moderate Soil Drying Regime Improves Root and Shoot Growth in Rice. **2009**, 49, 2246-2260		186
687	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	1.6	43
686	Dry matter production in relation to root plastic development, oxygen transport, and water uptake of rice under transient soil moisture stresses. **2010**, 332, 87-104		57
685	Physiological and morphological traits related to water use by three rice (Oryza sativa L.) genotypes grown under aerobic rice systems. **2010**, 335, 349-361		20
684	Field-specific potassium and phosphorus balances and fertilizer requirements for irrigated rice-based cropping systems. **2010**, 335, 35-64		85
683	Percolation losses in paddy fields with a dynamic soil structure: model development and applications. **2010**, 24, 813-824		16
682	Measuring Soil Water Potential for Water Management in Agriculture: A Review. *Sustainability*, **2010**, 2, 1226-1251	3.6	21
681	Water Saving Irrigation in Rice Cultivation with Particular Reference to Alternate Wetting and Drying Method: An Overview. **2010**, 128-136		
680	Rice yield, nitrogen utilization and ammonia volatilization as influenced by modified rice cultivation at varying nitrogen rates. **2010**, 01, 10-16		10

679	Crop management techniques to enhance harvest index in rice. **2010**, 61, 3177-89		235
678	Involvement of cytokinins in the grain filling of rice under alternate wetting and drying irrigation. **2010**, 61, 3719-33		113
677	Effect of Abiotic Stresses on the Nondestructive Estimation of Rice Leaf Nitrogen Concentration. **2010**, 2010, 1-11		2
676	Evaluation of Waterâ Nitrogen Schemes for Rice in Iran, Using ORYZA2000 Model. *Communications in Soil Science and Plant Analysis*, **2010**, 41, 2459-2477	1.5	11
675	Rice production with less irrigation water is possible in a Sahelian environment. *Field Crops Research* , **2010**, 116, 154-164	5.5	71
674	Greenhouse gas implications of water reuse in the Upper Pumpanga River Integrated Irrigation System, Philippines. *Agricultural Water Management*, **2010**, 97, 382-388	5.9	8
673	Sub-group formation and the adoption of the alternate wetting and drying irrigation method for rice in China. *Agricultural Water Management*, **2010**, 97, 700-706	5.9	14
672	Evaluation of yield and physiological attributes of high-yielding rice varieties under aerobic and flood-irrigated management practices in mid-hills ecosystem. *Agricultural Water Management*, **2010** , 97, 1269-1276	5.9	61
671	Water productivity of contrasting rice genotypes grown under water-saving conditions in the tropics and investigation of morphological traits for adaptation. *Agricultural Water Management*, **2010**, 98, 241-250	5.9	34
670	Halting the Groundwater Decline in North-West Indiaâ Which Crop Technologies will be Winners?. **2010**, 155-217		162
669	Enhancing Green Water in Soils of South Asia. **2011**, 25, 101-133		3
668	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	1.5	6
667	Farmersâ assessment of soil quality in rice production systems. **2011**, 58, 31-38		23
666	Comparisons of energy balance and evapotranspiration between flooded and aerobic rice fields in the Philippines. *Agricultural Water Management*, **2011**, 98, 1417-1430	5.9	95
665	Rice growth, yield and water productivity responses to irrigation scheduling prior to the delayed application of continuous flooding in south-east Australia. *Agricultural Water Management*, **2011**, 98, 1799-1807	5.9	39
664	Optimizing competitive uses of water for irrigation and fisheries. *Agricultural Water Management*, **2011**, 101, 42-51	5.9	22
663	Delineating water management zones in a paddy rice field using a Floating Soil Sensing System. *Agricultural Water Management*, **2011**, 102, 8-12	5.9	11
662	Effect of water management on dry seeded and puddled transplanted rice. Part 1: Crop performance. *Field Crops Research*, **2011**, 120, 112-122	5.5	112

661	Tillage and Crop Establishment Affects Sustainability of South Asian RiceâWheat System. **2011**, 103, 961-971		126
660	Autonomous real-time adaptive management of soil salinity using a receding horizon control algorithm: a pilot-scale demonstration. **2011**, 92, 2619-27		3
659	Field evaluation of Sclerotium rolfsii, a biological control agent for broadleaf weeds in dry, direct-seeded rice. **2011**, 30, 1315-1320		6
658	The blue, green and grey water footprint of rice from production and consumption perspectives. **2011**, 70, 749-758		284
657	Characterization of mercury species in brown and white rice (Oryza sativa L.) grown in water-saving paddies. **2011**, 159, 1283-9		73
656	Chlorophyll meter-based nitrogen management of rice grown under alternate wetting and drying irrigation. *Field Crops Research*, **2011**, 121, 136-146	5.5	71
655	Influence of the soil physical environment on rice (Oryza sativa L.) response to drought stress and its implications for drought research. *Field Crops Research*, **2011**, 121, 303-310	5.5	57
654	Evaluation and application of ORYZA2000 for irrigation scheduling of puddled transplanted rice in north west India. *Field Crops Research*, **2011**, 122, 104-117	5.5	58
653	Factors that determine grain weight in rice under high-yielding aerobic culture: The importance of husk size. *Field Crops Research*, **2011**, 123, 266-272	5.5	21
652	Effects on rice plant morphology and physiology of water and associated management practices of the system of rice intensification and their implications for crop performance. *Paddy and Water Environment*, **2011**, 9, 13-24	1.6	61
651	Effects of water management and organic fertilization with SRI crop practices on hybrid rice performance and rhizosphere dynamics. *Paddy and Water Environment*, **2011**, 9, 33-39	1.6	37
650	Nitrogen and phosphorus leaching losses from paddy fields with different water and nitrogen managements. *Paddy and Water Environment*, **2011**, 9, 333-342	1.6	117
649	Nutrient uptake and water use efficiency as affected by modified rice cultivation methods with reduced irrigation. *Paddy and Water Environment*, **2011**, 9, 25-32	1.6	24
648	A simple bund plugging technique for improving water productivity in wetland rice. **2011**, 112, 66-75		22
647	Discharge-based economic valuation of irrigation water: Evidence from the Teesta River, Bangladesh. **2011**, 60, 481-492		7
646	Impact of the alternate wetting and drying (AWD) water-saving irrigation technique: Evidence from rice producers in the Philippines. **2011**, 36, 280-288		102
645	Rice direct seeding: Experiences, challenges and opportunities. **2011**, 111, 87-98		291
644	Coupling effect of water saving irrigation and nitrogen application with different treatment in paddy fields. **2011**,		

643	Performance and Water-use Efficiency of Rice Relative to Establishment Methods in Northwestern Indo-Gangetic Plains. **2011**, 25, 597-617		31
642	WATER AND NITROGEN-BALANCE AND -USE EFFICIENCY IN A RICE (ORYZA SATIVA)âWHEAT (TRITICUM AESTIVUM) CROPPING SYSTEM AS INFLUENCED BY MANAGEMENT INTERVENTIONS: FIELD AND SIMULATION STUDY. **2011**, 47, 609-628		12
641	Effect of Water-Saving Irrigation on CH4 Emissions from Rice Fields. **2011**, 396-398, 1950-1958		
640	Improving water management practices to reduce nutrient export from rice paddy fields. **2011**, 32, 197-209		11
639	Water conservation practices for improving water-use policy in irrigated rice. **2011**, 57, 261-271		2
638	Direct Seeding of Rice. **2011**, 111, 297-413		340
637	Aerobic Rice Systems. **2011**, 111, 207-247		55
636	Post-anthesis alternate wetting and moderate soil drying enhances activities of key enzymes in sucrose-to-starch conversion in inferior spikelets of rice. **2012**, 63, 215-27		103
635	Synergic Effect of Flooding and Nitrogen Application on Alleviation of Soil Sickness Caused by Aerobic Rice Monocropping. **2012**, 15, 246-251		2
634	Validation of the DNDC-Rice model by using CH4 and N2O flux data from rice cultivated in pots under alternate wetting and drying irrigation management. **2012**, 58, 360-372		43
633	Zinc nutrition in rice production systems: a review. **2012**, 361, 203-226		118
632	Estimating Crop Coefficient in Intermittent Irrigation Paddy Fields Using Excel Solver. **2012**, 19, 143-152		12
631	Climate change model predicts 33 % rice yield decrease in 2100 in Bangladesh. **2012**, 32, 821-830		31
630	Impact of policies designed to enhance efficiency of water and nutrients on farm households varying in resource endowments in south India. **2012**, 59, 41-52		6
629	Efficacy, phytotoxicity and economics of different herbicides in aerobic rice. **2012**, 62, 604-615		10
628	Soil fertility in flooded and non-flooded irrigated rice systems. **2012**, 58, 423-436		35
627	Ammonia volatilization losses from a rice paddy with different irrigation and nitrogen managements. *Agricultural Water Management*, **2012**, 104, 184-192	5.9	141
626	Assessing nutrient losses of reclaimed wastewater irrigation in paddy fields for sustainable agriculture. *Agricultural Water Management*, **2012**, 104, 235-243	5.9	44

625	Water management practices and SCS curve numbers of paddy fields equipped with surface drainage pipes. *Agricultural Water Management*, **2012**, 110, 78-83	5.9	21
624	Application of temperature, water stress, CO2 in rice growth models. **2012**, 5, 10		14
623	Effects of Irrigation Patterns and Nitrogen Fertilization on Rice Yield and Microbial Community Structure in Paddy Soil. **2012**, 22, 661-672		23
622	Root Morphology and Physiology in Relation to the Yield Formation of Rice. **2012**, 11, 920-926		75
621	Site-specific and regional on-farm rice water conservation analyzer (RiceWCA): Development and evaluation of the water balance model. *Agricultural Water Management*, **2012**, 115, 66-82	5.9	6
620	Molecular Characterization, Morphophysiological and Biochemical Evaluation of F2 and F3 Generation of MAS 946-1 x ADT 43 Under Aerobic Condition. **2012**, 4, 22-29		
619	Methane and nitrous oxide emissions from paddy field as affected by water-saving irrigation. **2012**, 53-54, 30-37		71
618	Water use efficiency and physiological response of rice cultivars under alternate wetting and drying conditions. **2012**, 2012, 287907		18
617	Fate of pesticides in combined paddy rice-fish pond farming systems in northern Vietnam. **2012**, 41, 515-25		30
616	Ammonia volatilization from urea-application influenced germination and early seedling growth of dry direct-seeded rice. **2012**, 2012, 857472		12
615	Improved Management Alleviating Impact of Water Stress on Yield Decline of Tropical Aerobic Rice. **2012**, 104, 584-588		4
614	INTEGRATED IRRIGATION AND DRAINAGE PRACTICES TO ENHANCE WATER PRODUCTIVITY AND REDUCE POLLUTION IN A RICE PRODUCTION SYSTEM. **2012**, 61, 285-293		23
613	Aerobic rice for water-saving agriculture. A review. **2012**, 32, 411-418		55
612	Aerobic rice genotypes displayed greater adaptation to water-limited cultivation and tolerance to polyethyleneglycol-6000 induced stress. **2012**, 18, 33-43		13
611	Agronomic performance of high-yielding rice variety grown under alternate wetting and drying irrigation. *Field Crops Research*, **2012**, 126, 16-22	5.5	169
610	Evaluation of tradeoffs in land and water productivity of dry seeded rice as affected by irrigation schedule. *Field Crops Research*, **2012**, 128, 180-190	5.5	37
609	Crop performance and water- and nitrogen-use efficiencies in dry-seeded rice in response to irrigation and fertilizer amounts in northwest India. *Field Crops Research*, **2012**, 134, 59-70	5.5	104
608	Rice in cropping systemsâModelling transitions between flooded and non-flooded soil environments. **2012**, 39, 9-24		71

607	Avenues to meet food security. The role of agronomy on solving complexity in food production and resource use. **2012**, 43, 1-8		57
606	Effects of alternating wetting and drying versus continuous flooding on fertilizer nitrogen fate in rice fields in the Mekong Delta, Vietnam. **2012**, 47, 166-174		105
605	Rice straw incorporation in winter with fertilizer-N application improves soil fertility and reduces global warming potential from a double rice paddy field. **2013**, 49, 1039-1052		35
604	Mitigation of nutrient losses via surface runoff from rice cropping systems with alternate wetting and drying irrigation and site-specific nutrient management practices. **2013**, 20, 6980-91		39
603	Integrated management systems and N fertilization: effect on soil organic matter in rice-rapeseed rotation. **2013**, 372, 53-63		18
602	Allocation and dynamics of assimilated carbon in rice-soil system depending on water management. **2013**, 363, 273-285		48
601	Exploring the potential for wastewater reuse in agriculture as a climate change adaptation measure for Can Tho City, Vietnam. *Agricultural Water Management*, **2013**, 128, 43-54	5.9	37
600	Application of the CSM-CERES-Rice model for evaluation of plant density and irrigation management of transplanted rice for an irrigated semiarid environment. **2013**, 31, 491-506		39
599	Short-term rainfall forecasts as a soft adaptation to climate change in irrigation management in North-East India. *Agricultural Water Management*, **2013**, 127, 97-106	5.9	33
598	Integrated nutrient, water and other agronomic options to enhance rice grain yield and N use efficiency in double-season rice crop. *Field Crops Research*, **2013**, 148, 15-23	5.5	40
597	Effect of tillage systems, seeding rates, and herbicides on weed growth and grain yield in dry-seeded rice systems in the Philippines. **2013**, 54, 244-250		19
596	Combination of site-specific nitrogen management and alternate wetting and drying irrigation increases grain yield and nitrogen and water use efficiency in super rice. *Field Crops Research*, **2013**, 154, 226-235	5.5	112
595	Microbial response to rhizodeposition depending on water regimes in paddy soils. **2013**, 65, 195-203		60
594	Carbon uptake and water productivity for dry-seeded rice and hybrid maize grown with overhead sprinkler irrigation. *Field Crops Research*, **2013**, 146, 51-65	5.5	32
593	Influence of aerobic condition on physiological traits and yield attributes of rice (Oryza sativa L.) genotypes under rainfed lowland ecosystem. **2013**, 18, 263-269		
592	Effect of subsurface drainage on water balance and water table in poorly drained paddy fields. *Agricultural Water Management*, **2013**, 130, 61-68	5.9	35
591	Labile soil organic matter fractions as influenced by non-flooded mulching cultivation and cropping season in riceâ□wheat rotation. **2013**, 56, 19-25		44
590	Remote sensing of rice crop areas. **2013**, 34, 2101-2139		203

589	Effects of alternate wetting and drying irrigation on percolation and nitrogen leaching in paddy fields. *Paddy and Water Environment*, **2013**, 11, 381-395	1.6	96
588	Water regimes: an approach of mitigation arsenic in summer rice (Oryza sativa L.) under different topo sequences on arsenic-contaminated soils of Bengal delta. *Paddy and Water Environment*, **2013**, 11, 397-410	1.6	9
587	Crop and water productivity as influenced by rice cultivation methods under organic and inorganic sources of nutrient supply. *Paddy and Water Environment*, **2013**, 11, 531-542	1.6	33
586	Selection efficiencies for improving drought/salt tolerances and yield using introgression breeding in rice (Oryza sativa L.). **2013**, 1, 134-142		15
585	Incentives for energy-efficient irrigation: Empirical evidence of technology adoption in Andhra Pradesh, India. **2013**, 17, 261-269		9
584	The no-tillage system and cover cropsâ Alternatives to increase upland rice yields. **2013**, 45, 124-131		61
583	Growth and yield of rice (Oryza sativa L.) under resource conservation technologies in the irrigated drylands of Central Asia. *Field Crops Research*, **2013**, 149, 115-126	5.5	22
582	Impacts of cropping practices on yield-scaled greenhouse gas emissions from rice fields in China: A meta-analysis. **2013**, 164, 220-228		117
581	Changes in community structure of methanogenic archaea brought about by water-saving practice in paddy field soil. **2013**, 58, 235-243		25
580	Estimation of crop coefficients of dry-seeded irrigated riceâ wheat rotation on raised beds by field water balance method in the Indo-Gangetic plains, India. *Agricultural Water Management*, **2013**, 123, 20-31	5.9	23
579	Dry-seeded rice culture in Punjab State of India: Lessons learned from farmers. *Field Crops Research*, **2013**, 144, 89-99	5.5	58
578	Effect of continuous and intermittent irrigation methods on rice (cv. Koohrang) yield. **2013**, 59, 947-954		4
577	Gaseous losses of nitrogen by ammonia volatilization and nitrous oxide emissions from rice paddies with different irrigation management. **2013**, 31, 983-994		18
576	Downward carbon transport in a 2000-year rice paddy soil chronosequence traced by radiocarbon measurements. **2013**, 294, 584-587		13
575	Effective Management of Scarce Water Resources in North-West India. **2013**, 103-125		1
574	Marginal benefit based optimal water allocation: case of Teesta River, Bangladesh. **2013**, 15, 126-146		8
573	Calibration and Evaluation of CERES Rice Model under Different Nitrogen- and Water-Management Options in Semi-Mediterranean Climate Condition. *Communications in Soil Science and Plant Analysis* , **2013**, 44, 1814-1830	1.5	8
572	The stress of climate change on water management in Cambodia with a focus on rice production. **2013**, 5, 77-92		7

571	An Improved Crop Management Increases Grain Yield and Nitrogen and Water Use Efficiency in Rice. **2013**, 53, 271-284		57
570	Rice performance and water use efficiency under plastic mulching with drip irrigation. **2013**, 8, e83103		32
569	Rice photosynthetic productivity and PSII photochemistry under nonflooded irrigation. **2014**, 2014, 839658		11
568	Performance of different herbicides in dry-seeded rice in Bangladesh. **2014**, 2014, 729418		21
567	Water-saving ground cover rice production system reduces net greenhouse gas fluxes in an annual rice-based cropping system. **2014**, 11, 6221-6236		35
566	Biodiversity Conservation in Rice Paddies in China: Toward Ecological Sustainability. *Sustainability*, **2014**, 6, 6107-6124	3.6	33
565	Improving Irrigated Lowland Rice Water Use Efficiency under Saturated Soil Culture for Adoption in Tropical Climate Conditions. *Water (Switzerland)*, **2014**, 6, 2830-2846	3	16
564	Water Use Efficiency, Irrigation Management and Nitrogen Utilization in Rice Production in the North of Iran. **2014**, 8, 70-74		10
563	Rice methylmercury exposure and mitigation: a comprehensive review. **2014**, 133, 407-23		124
562	Farmer adaptation of intermittent flooding using multiple-inlet rice irrigation in Mississippi. *Agricultural Water Management*, **2014**, 146, 297-304	5.9	40
561	Impact of cyclic water stress on growth, physiological responses and yield of rice (Oryza sativa L.) grown in tropical environment. **2014**, 44, 2136-2141		19
560	Drought tolerance, phosphorus efficiency and yield characters of upland ricelines. **2014**, 26, 25		10
559	Effects of controlled irrigation and drainage on growth, grain yield and water use in paddy rice. **2014**, 53, 1-9		46
558	Productivity and socio-economic impact of system of rice intensification and integrated crop management over conventional methods of rice establishment in eastern Himalayas, India. *Paddy and Water Environment*, **2014**, 12, 193-202	1.6	11
557	Binding forms and availability of Cd and Cr in paddy soil under non-flooding controlled irrigation. *Paddy and Water Environment*, **2014**, 12, 213-222	1.6	11
556	Research productivity in soil science in the Philippines. **2014**, 100, 261-272		7
555	Actual evapotranspiration and dual crop coefficients for dry-seeded rice and hybrid maize grown with overhead sprinkler irrigation. *Agricultural Water Management*, **2014**, 136, 1-12	5.9	58
554	Sensitivity analysis assessment of remotely based vegetation indices to improve water resources management. **2014**, 16, 1209-1222		11

553	Simulating soil water regime in lowland paddy fields under different water managements using HYDRUS-1D. *Agricultural Water Management*, **2014**, 132, 69-78	5.9	47
552	Exploring synergies and tradeoffs: Energy, water, and economic implications of water reuse in rice-based irrigation systems. **2014**, 114, 889-900		19
551	Effect of red-edge and texture features for object-based paddy rice crop classification using RapidEye multi-spectral satellite image data. **2014**, 1-23		24
550	Agricultural sciences in transition from 1800 to 2020: Exploring knowledge and creating impact. **2014**, 59, 96-106		11
549	Influence of boron nutrition on the rice productivity, kernel quality and biofortification in different production systems. *Field Crops Research*, **2014**, 169, 123-131	5.5	26
548	Establishment method effects on crop performance and water productivity of irrigated rice in the tropics. *Field Crops Research*, **2014**, 166, 112-127	5.5	29
547	Reprint of âMorphological and physiological traits of roots and their relationships with water productivity in water-saving and drought-resistant riceâ*Field Crops Research*, **2014**, 165, 36-48	5.5	24
546	Crop root system behaviour and yield. *Field Crops Research*, **2014**, 165, 1-4	5.5	38
545	Impact of water management on yield and water productivity with system of rice intensification (SRI) and conventional transplanting system in rice. *Paddy and Water Environment*, **2014**, 12, 413-424	1.6	41
544	Morphological and physiological traits of roots and their relationships with water productivity in water-saving and drought-resistant rice. *Field Crops Research*, **2014**, 162, 108-119	5.5	54
543	Effect of Cold Plasma Treatment on Seed Germination and Growth of Wheat. **2014**, 16, 54-58		147
542	Improving Water Productivity of Wheat-Based Cropping Systems in South Asia for Sustained Productivity. **2014**, 157-258		59
541	Weed dynamics and productivity of wheat in conventional and conservation rice-based cropping systems. **2014**, 141, 1-9		54
540	Canopy microclimate and gas-exchange in response to irrigation system in lowland rice in the Sahel. *Field Crops Research*, **2014**, 163, 64-73	5.5	16
539	Leaf area development in response to meristem temperature and irrigation system in lowland rice. *Field Crops Research*, **2014**, 163, 74-80	5.5	11
538	The SRI (system of rice intensification) water management evaluation by SWAPP (SWATâAPEX Program) modeling in an agricultural watershed of South Korea. *Paddy and Water Environment*, **2014**, 12, 251-261	1.6	10
537	Influence of Seed Priming on Performance and Water Productivity of Direct Seeded Rice in Alternating Wetting and Drying. **2015**, 22, 189-196		16
536	Alternate wetting and drying irrigation maintained rice yields despite half the irrigation volume, but is currently unlikely to be adopted by smallholder lowland rice farmers in Nepal. **2015**, 4, 144-157		37

535	Alternate wetting and moderate drying increases rice yield and reduces methane emission in paddy field with wheat straw residue incorporation. **2015**, 4, 238-254		47
534	An economic evaluation comparison of solar water pumping system with engine pumping system for rice cultivation. **2015**, 54, 08KH01		6
533	Comparison of photoperiod-sensitive and photoperiod-insensitive basmati cultivars for grain yield, water productivity, and quality traits under varied transplanting dates in Northwest India. **2015**, 66, 793		13
532	Reducing greenhouse gas emissions, water use, and grain arsenic levels in rice systems. **2015**, 21, 407-17		209
531	Rice Water Use Efficiency and Yield under Continuous and Intermittent Irrigation. **2015**, 107, 442-448		17
530	Studies on Response of Varieties and Different Dates of Sowing on Productivity of Aerobic Rice. **2015**, 03,		
529	How Smallholder Farmers in Uttarakhand Reworked the System of Rice Intensification: Innovations from Sociotechnical Interactions in Fields and Villages. **2015**,		3
528	Water Balance of Flooded Rice in the Tropics. **2015**,		2
527	More rice with less water â□evaluation of yield and resource use efficiency in ground cover rice production system with transplanting. **2015**, 68, 13-21		36
526	Monsoon variability, crop water requirement, and crop planning for kharif rice in Sagar Island, India. **2015**, 59, 1891-903		9
525	Nitrogen and phosphorus loss and optimal drainage time of paddy field under controlled drainage condition. **2015**, 8, 4411-4420		14
524	Improving crop production for food security and improved livelihoods on the East India Plateau. I. Rainfall-related risks with rice and opportunities for improved cropping systems. **2015**, 137, 166-179		14
523	Possibilities of Improving Performance of Direct Seeded Rice Using Plant Growth Regulators: A Review. **2015**, 85, 909-922		7
522	Abscisic acid, ethylene and antioxidative systems in rice grains in relation with grain filling subjected to postanthesis soil-drying. **2015**, 76, 135-146		15
521	Alternate wetting and drying irrigation-mediated changes in the growth, photosynthesis and yield of the medicinal plant Tulipa edulis. **2015**, 66, 81-88		28
520	Effects of alternating wetting and drying versus continuous flooding on chromium fate in paddy soils. **2015**, 113, 439-45		31
519	Soil water potential and recoverable water stress in drought tolerant and susceptible rice varieties. *Agricultural Water Management*, **2015**, 152, 110-118	5.9	28
518	Effect of crop establishment methods and weed control treatments on weed management, and rice yield. *Field Crops Research*, **2015**, 172, 72-84	5.5	45

517	A new LandscapeDNDC biogeochemical module to predict CH4 and N2O emissions from lowland rice and upland cropping systems. **2015**, 386, 125-149		38
516	Water-Yield Relations and Water Use Efficiency of Maize Under Nitrogen Fertigation for Semiarid Environments: Experiment and Synthesis. **2015**, 175-229		29
515	Growth behavior, productivity, leaf rolling, and soil cracks on transplanted rice in response to enforce surface drainage. *Paddy and Water Environment*, **2015**, 13, 507-519	1.6	5
514	Improving crop production for food security and improved livelihoods on the East India Plateau II. Crop options, alternative cropping systems and capacity building. **2015**, 137, 180-190		11
513	Simulation of crop and water productivity for rice (Oryza sativa L.) using APSIM under diverse agro-climatic conditions and water management techniques in Sri Lanka. *Agricultural Water Management*, **2015**, 160, 132-143	5.9	37
512	Effects of water-saving irrigation practices and drought resistant rice variety on greenhouse gas emissions from a no-till paddy in the central lowlands of China. *Science of the Total Environment*, **2015**, 505, 1043-52	10.2	119
511	A review of the system of rice intensification in China. **2015**, 393, 361-381		33
510	GRAIN YIELD PERFORMANCE OF UPLAND AND LOWLAND RICE VARIETIES UNDER WATER SAVING IRRIGATION THROUGH ALTERNATE WETTING AND DRYING IN SANDY CLAY LOAMS OF SOUTHERN MALAWI. **2015**, 51, 313-326		10
509	The yield of wheat genotypes associated with yield components under irrigated and drought stress after anthesis. **2015**, 61, 1743-1755		4
508	Water productivity and food security: considering more carefully the farm-level perspective. **2015**, 7, 247-260		11
507	Optimal system operation of the drops-cascading Konto system, Indonesia. **2015**, 3, 105-121		
506	Understanding rice adaptation to varying agro-ecosystems: trait interactions and quantitative trait loci. **2015**, 16, 86		38
505	Enhancing water and cropping productivity through Integrated System of Rice Intensification (ISRI) with aquaculture and horticulture under rainfed conditions. *Agricultural Water Management*, **2015**, 161, 65-76	5.9	14
504	Water productivity and nutrient status of rice soil in response to cultivation techniques and nitrogen fertilization. *Paddy and Water Environment*, **2015**, 13, 443-453	1.6	9
503	Evaluating contribution of soil water to paddy rice by stable isotopes of hydrogen and oxygen. *Paddy and Water Environment*, **2015**, 13, 125-133	1.6	15
502	Evaluating water depths for high water productivity in irrigated lowland rice field by employing alternate wetting and drying technique under tropical climate conditions, Southern Taiwan. *Paddy and Water Environment*, **2015**, 13, 379-389	1.6	13
501	Adoption and economics of alternate wetting and drying water management for irrigated lowland rice. *Field Crops Research*, **2015**, 170, 95-108	5.5	233
500	The influence of dairy management strategies on water productivity of milk production. *Agricultural Water Management*, **2015**, 147, 175-186	5.9	15

499	Mitigation of arsenic in rice through deficit irrigation in field and use of filtered water in kitchen. **2015**, 12, 2065-2070		12
498	Effects of alternate wetting and drying (AWD) threshold level and plant seedling age on crop performance, water input, and water productivity of transplanted rice in Central Luzon, Philippines. *Paddy and Water Environment*, **2015**, 13, 215-227	1.6	55
497	Applicability of APSIM to capture the effectiveness of irrigation management decisions in rice-based cropping sequence in the Upper-Gangetic Plains of India. *Paddy and Water Environment*, **2015**, 13, 325-335	1.6	9
496	Consideration of Water Uses for Its Sustainable Management, the Case of Issyk-Kul Lake, Kyrgyzstan. *Water (Switzerland)*, **2016**, 8, 298	3	12
495	Enriching Rice Grain Zinc through Zinc Fertilization and Water Management. **2016**, 80, 121-134		15
494	Soil Salinity Mapping and Hydrological Drought Indices Assessment in Arid Environments Based on Remote Sensing Techniques. **2016**,		1
493	The growth characteristics and yield potential of rice (Oryza sativa) under non-flooded irrigation in arid region. **2016**, 168, 337-356		15
492	Frontiers of the foodâEnergyâWater trilemma: Sri Lanka as a microcosm of tradeoffs. **2016**, 11, 014005		29
491	Performance of Dry Direct-Seeded Rice in Response to Genotype and Seeding Rate. **2016**, 108, 257-265		15
490	Zn uptake behavior of rice genotypes and its implication on grain Zn biofortification. **2016**, 6, 38301		20
489	Agronomic and Physiological Performance of Rice under Integrative Crop Management. **2016**, 108, 117-128		22
488	How well can we assess impacts of agricultural land management changes on the total greenhouse gas balance (CO2, CH4 and N2O) of tropical rice-cropping systems with a biogeochemical model?. **2016**, 224, 104-115		17
487	Combination of wet irrigation and nitrification inhibitor reduced nitrous oxide and methane emissions from a rice cropping system. **2016**, 23, 17426-36		15
486	CH4 Emission in Response to Water-Saving and Drought-Resistance Rice (WDR) and Common Rice Varieties under Different Irrigation Managements. **2016**, 227, 1		11
485	Lower global warming potential and higher yield of wet direct-seeded rice in Central China. **2016**, 36, 1		48
484	Agro-environmental sustainability of different water management practices in temperate rice agro-ecosystems. **2016**, 222, 235-248		26
483	Irrigation regime affected SOC content rather than plow layer thickness of rice paddies: A county level survey from a river basin in lower Yangtze valley, China. *Agricultural Water Management*, **2016**, 172, 31-39	5.9	7
482	Climate Change and Agriculture: Adaptation Strategies and Mitigation Opportunities for Food Security in South Asia and Latin America. **2016**, 137, 127-235		64

481	Bi-decadal groundwater level trends in a semi-arid south indian region: Declines, causes and management. **2016**, 8, 43-58		25
480	Improving the performance of short-duration basmati rice in water-saving production systems by boron nutrition. **2016**, 168, 19-28		18
479	Improving and correcting unsaturated soil hydraulic properties with plant parameters for agriculture and bioengineered slopes. **2016**, 1, 58-78		44
478	Climate Change vis-a-vis Saline Agriculture: Impact and Adaptation Strategies. **2016**, 5-53		11
477	Water management impacts rice methylmercury and the soil microbiome. *Science of the Total Environment*, **2016**, 572, 608-617	10.2	42
476	Water consumption and water-saving characteristics of a ground cover rice production system. **2016**, 540, 220-231		26
475	Arthropod Community on Rice: A Blend of Aquatic and Terrestrial Species. **2016**, 147-167		
474	Greenhouse gas emission from direct seeded paddy fields under different soil water potentials in Eastern India. **2016**, 228, 111-123		46
473	Estimation of crop coefficient of irrigated transplanted puddled rice by field scale water balance in the semi-arid Indo-Gangetic Plains, India. *Agricultural Water Management*, **2016**, 176, 142-150	5.9	11
472	Alternate Wetting and Drying of Rice Reduced CH4 Emissions but Triggered N2O Peaks in a Clayey Soil of Central Italy. **2016**, 26, 533-548		58
471	Improved water management to reduce greenhouse gas emissions in no-till rapeseedâ□rice rotations in Central China. **2016**, 221, 87-98		25
470	Alternate wetting and drying in high yielding direct-seeded rice systems accomplishes multiple environmental and agronomic objectives. **2016**, 229, 30-39		85
469	Soil solution chemical attributes, rice response and water use efficiency under different flood irrigation management methods. *Agricultural Water Management*, **2016**, 176, 9-17	5.9	8
468	Mitigation of greenhouse gas emission from riceâ□wheat system of the Indo-Gangetic plains: Through tillage, irrigation and fertilizer management. **2016**, 230, 1-9		91
467	Phenological variations, yield differences and free proline accumulation in rice under alternate inundation and suspension of irrigation in Central Thailand. *Paddy and Water Environment*, **2016**, 14, 387-401	1.6	1
466	Farmersâ□Water Management Practice and Effective Rainfall and Runoff Ratio of Paddy Fields. **2016**, 65, 66-71		5
465	Effect of Extended Water Stress on Growth, Tiller Mortality and Nutrient Recovery Under System of Rice Intensification. **2016**, 86, 105-113		6
464	Effect of herbicides on weed management in dry-seeded rice sown under different tillage systems. **2016**, 80, 118-126		12

463	The positive impacts of irrigation schedules on rice yield and water consumption: synergies in Jilin Province, Northeast China. **2016**, 14, 1-12		11
462	Mapping paddy rice planting area in rice-wetland coexistent areas through analysis of Landsat 8 OLI and MODIS images. **2016**, 46, 1-12		89
461	Grain yield, water and nitrogen use efficiencies of rice as influenced by irrigation regimes and their interaction with nitrogen rates. *Field Crops Research*, **2016**, 193, 54-69	5.5	133
460	Climate ready rice: Augmenting drought tolerance with best management practices. *Field Crops Research*, **2016**, 190, 60-69	5.5	64
459	Mapping rice cropping systems using Landsat-derived Renormalized Index of Normalized Difference Vegetation Index (RNDVI) in the Poyang Lake Region, China. **2016**, 10, 303-314		13
458	Soil fertility, plant nutrition, and grain yield of upland rice affected by surface application of lime, silicate, and phosphogypsum in a tropical no-till system. **2016**, 137, 87-99		61
457	Grain yield, water productivity and CH 4 emission of irrigated rice in response to water management in south China. *Agricultural Water Management*, **2016**, 163, 319-331	5.9	61
456	Accumulation and partitioning of biomass, nitrogen, phosphorus and potassium among different tissues during the life cycle of rice grown under different water management regimes. **2016**, 401, 169-183		23
455	The effects of current water management practices on methane emissions in Japanese rice cultivation. **2017**, 22, 85-98		7
454	Long-term evaluation of the BMPs scenarios in reducing nutrient surface loads from paddy rice cultivation in Korea using the CREAMS-PADDY model. *Paddy and Water Environment*, **2017**, 15, 59-69	1.6	11
453	Surface Drainage in Transplanted Rice: Productivity, Relative Water and Leaf Rolling, Root Behaviour and Weed Dynamics. **2017**, 87, 869-876		2
452	Evaluation of the APSIM model in cropping systems of Asia. *Field Crops Research*, **2017**, 204, 52-75	5.5	123
451	Rice yields and water use under alternate wetting and drying irrigation: A meta-analysis. *Field Crops Research*, **2017**, 203, 173-180	5.5	268
450	Soil Management to Optimize Water in Rice-Wheat Cropping. **2017**, 253-279		
449	Improving rice production sustainability by reducing water demand and greenhouse gas emissions with biodegradable films. **2017**, 7, 39855		34
448	Solid-Phase Speciation and Solubility of Phosphorus in an Acid Sulfate Paddy Soil during Soil Reduction and Reoxidation as Affected by Oil Palm Ash and Biochar. **2017**, 65, 704-710		16
447	Effects of water-saving irrigation on weed infestation and diversity in paddy fields in East China. *Paddy and Water Environment*, **2017**, 15, 593-604	1.6	7
446	Physiological and morphological responses of four different rice cultivars to soil water potential based deficit irrigation management strategies. *Field Crops Research*, **2017**, 205, 78-94	5.5	33

445	Rice Production in Australia. **2017**, 169-184		4
444	Grain yield, water productivity and nitrogen use efficiency of rice under different water management and fertilizer-N inputs in South China. *Agricultural Water Management*, **2017**, 184, 191-200	5.9	68
443	Impact of alternate wetting and drying on rice physiology, grain production, and grain quality. *Field Crops Research*, **2017**, 205, 1-13	5.5	73
442	Rice rhizodeposition and carbon stabilisation in paddy soil are regulated via drying-rewetting cycles and nitrogen fertilisation. **2017**, 53, 407-417		40
441	Influence of crop establishment methods on yield, economics and water productivity of rice cultivars under upland and lowland production ecologies of Eastern Indo-Gangetic Plains. *Paddy and Water Environment*, **2017**, 15, 861-877	1.6	9
440	Modeling the water and nitrogen transports in a soilâ□paddyâ□tmosphere system using HYDRUS-1D and lysimeter experiment. *Paddy and Water Environment*, **2017**, 15, 831-846	1.6	21
439	Improving water productivity in moisture-limited rice-based cropping systems through incorporation of maize and mungbean: A modelling approach. *Agricultural Water Management*, **2017**, 189, 111-122	5.9	15
438	Effects of watering regime and nitrogen application rate on the photosynthetic parameters, physiological characteristics, and agronomic traits of rice. **2017**, 39, 1		20
437	Evaluation of fertilizer and water management effect on rice performance and greenhouse gas intensity in different seasonal weather of tropical climate. *Science of the Total Environment*, **2017**, 601-602, 1254-1262	10.2	18
436	Water use efficiency of a rice paddy field in Liaohe Delta, Northeast China. *Agricultural Water Management*, **2017**, 187, 222-231	5.9	27
435	Utilizing rainfall and alternate wetting and drying irrigation for high water productivity in irrigated lowland paddy rice in southern Taiwan. **2017**, 20, 24-35		18
434	Stomatal conductance, mesophyll conductance, and transpiration efficiency in relation to leaf anatomy in rice and wheat genotypes under drought. **2017**, 68, 5191-5205		97
433	A Water Temperature Simulation Model for Rice Paddies With Variable Water Depths. **2017**, 53, 10065-10084		8
432	Coated urea enhances iron and zinc concentrations in rice grain under different cultivation methods. **2017**, 40, 841-850		5
431	Static headspace analysis of odorants in commercial rice proteins. **2017**, 221, 345-350		8
430	Smallholder farmers managing climate risk in India: 1. Adapting to a variable climate. **2017**, 150, 54-66		19
429	Temperature and drought impacts on rice production: An agronomic perspective regarding short- and long-term adaptation measures. **2017**, 9, 12-27		67
428	Effect of salinity and soil temperature on the growth and physiology of drip-irrigated rice seedlings. **2017**, 63, 513-524		7

427	An integrated approach to weed management practices in direct-seeded rice under zero-tilled riceâwheat cropping system. **2017**, 63, 37-46		17
426	Moderate wetting and drying increases rice yield and reduces water use, grain arsenic level, and methane emission. **2017**, 5, 151-158		87
425	The role of water management and environmental factors on field irrigation requirements and water productivity of rice. **2017**, 35, 11-26		16
424	Review of yield gap explaining factors and opportunities for alternative data collection approaches. **2017**, 82, 206-222		61
423	Climate Variability Impact on Rice Production: Adaptation and Mitigation Strategies. **2017**, 91-111		25
422	Aquifer Depletion in the Lower Mississippi River Basin: Challenges and Solutions. **2017**, 162, 128-139		29
421	Nitrogen Metabolism in Adaptation of Photosynthesis to Water Stress in Rice Grown under Different Nitrogen Levels. *Frontiers in Plant Science*, **2017**, 8, 1079	6.2	51
420	Genome-Wide Analysis of Rice Performance under Limited Water and Permanent Flooding Conditions. *Frontiers in Plant Science*, **2017**, 8, 1862	6.2	21
419	Root Traits Enhancing Rice Grain Yield under Alternate Wetting and Drying Condition. *Frontiers in Plant Science*, **2017**, 8, 1879	6.2	20
418	Soil salinity mapping and hydrological drought indices assessment in arid environments based on remote sensing techniques. **2017**, 6, 149-158		24
417	Impact of Water Management on Rice Varieties, Yield, and Water Productivity under the System of Rice Intensification in Southern Taiwan. *Water (Switzerland)*, **2017**, 9, 3	3	15
416	Modeling of Soil Water Regime and Water Balance in a Transplanted Rice Field Experiment with Reduced Irrigation. *Water (Switzerland)*, **2017**, 9, 248	3	17
415	Economic Performance of Traditional and Modern Rice Varieties under Different Water Management Systems. *Sustainability*, **2017**, 9, 347	3.6	14
414	Rice Production under Different Weed Management Technologies Adopted by Rice Farmers in Katsina State, Nigeria. **2017**, 21, 149		1
413	Water consumption, grain yield, and water productivity in response to field water management in double rice systems in China. **2017**, 12, e0189280		21
412	Arsenic speciation dynamics in paddy rice soil-water environment: sources, physico-chemical, and biological factors - A review. **2018**, 140, 403-414		150
411	Irrigation and Zn fertilizer management improves Zn phyto-availability in various rice production systems. **2018**, 181, 374-381		4
410	Water Use Efficiency in Rice Production: Implications for Climate Change Adaptation in the Vietnamese Mekong Delta. **2018**, 2, 221-238		4

409	The physiological processes and mechanisms for superior water productivity of a popular ground cover rice production system. *Agricultural Water Management*, **2018**, 201, 11-20	5.9	5
408	Modelling nitrogen transport and transformation in a transplanted rice field experiment with reduced irrigation. **2018**, 68, 457-470		
407	Nitrogen metabolism correlates with the acclimation of photosynthesis to short-term water stress in rice (Oryza sativa L.). **2018**, 125, 52-62		37
406	Stable Oxygen and Carbon Isotopic Composition of Rice (Oryza sativa L.) Grains as Recorder of Relative Humidity. **2018**, 123, 423-439		8
405	Responses of candidate green super rice and super hybrid rice varieties to simplified and reduced input practice. *Field Crops Research*, **2018**, 218, 78-87	5.5	4
404	Irrigation methods affect water productivity, grain yield, and growth responses of rice at different levels of nitrogen. **2018**, 73, 329-336		5
403	Spatio-temporal analysis of the climate impact on rice yield in north-west India. **2018**, 26, 381-395		7
402	Morphological and physiological traits of rice roots and their relationships to yield and nitrogen utilization as influenced by irrigation regime and nitrogen rate. *Agricultural Water Management*, **2018**, 203, 385-394	5.9	31
401	Enhanced nitrogen cycling and N2O loss in water-saving ground cover rice production systems (GCRPS). **2018**, 121, 77-86		14
400	Canopy Spectral Reflectance as a Predictor of Soil Water Potential in Rice. **2018**, 54, 2544-2560		10
399	The interaction of strigolactones with abscisic acid during the drought response in rice. **2018**, 69, 2403-2414		49
398	Growth, yield and silicon uptake of rice (Oryza sativa) as influenced by dose and timing of silicon application under water-deficit stress. **2018**, 64, 318-330		35
397	Productivity trade-off with different water regimes and genotypes of rice under non-puddled conditions in Eastern India. *Field Crops Research*, **2018**, 222, 218-229	5.5	17
396	Progressive integrative crop managements increase grain yield, nitrogen use efficiency and irrigation water productivity in rice. *Field Crops Research*, **2018**, 215, 1-11	5.5	59
395	Different nitrogen rates and methods of application for dry season rice cultivation with alternate wetting and drying irrigation: Fate of nitrogen and grain yield. *Agricultural Water Management*, **2018**, 196, 144-153	5.9	42
394	Numerical modeling of soil water dynamics in subsurface drained paddies with midseason drainage or alternate wetting and drying management. *Agricultural Water Management*, **2018**, 197, 67-78	5.9	12
393	Effects of alternate wetting and drying technique on greenhouse gas emissions from irrigated rice paddy in Central Luzon, Philippines. **2018**, 64, 39-46		26
392	Imposed Water Deficit after Anthesis for the Improvement of Macronutrients, Quality, Phytochemicals, and Antioxidants in Rice Grain. *Sustainability*, **2018**, 10, 4843	3.6	8

391	The implications of group norms for adaptation in collectively managed agricultural systems: evidence from Sri Lankan paddy farmers. **2018**, 23,		5
390	Bacterial Extracellular Polymeric Substances Amplify Water Content Variability at the Pore Scale. **2018**, 6,		17
389	Genome Wide Association Mapping of Grain and Straw Biomass Traits in the Rice Bengal and Assam Aus Panel (BAAP) Grown Under Alternate Wetting and Drying and Permanently Flooded Irrigation. *Frontiers in Plant Science*, **2018**, 9, 1223	6.2	25
388	Evaluation of Drip Irrigation System for Water Productivity and Yield of Rice. **2018**, 110, 2378-2389		16
387	High-Frequency Water Isotopic Analysis Using an Automatic Water Sampling System in Rice-Based Cropping Systems. *Water (Switzerland)*, **2018**, 10, 1327	3	5
386	Growth, yield and water productivity of selected lowland Thai rice varieties under different cultivation methods and alternate wetting and drying irrigation. **2018**, 173, 302-312		25
385	Mitigation Potential and Yield-Scaled Global Warming Potential of Early-Season Drainage from a Rice Paddy in Tamil Nadu, India. *Agronomy*, **2018**, 8, 202	3.6	7
384	Enhancing water productivity using alternative rice growing practices: a case study from Southern India. **2018**, 156, 673-679		2
383	Effects of temperature and soil moisture on gross nitrification and denitrification rates of a Chinese lowland paddy field soil. *Paddy and Water Environment*, **2018**, 16, 687-698	1.6	32
382	Water management strategies and their effects on rice grain yield and nitrogen use efficiency. **2018**, 73, 257-264		6
381	Irrigation and Deep Tillage Effects on Productivity of Dry-Seeded Rice in a Subtropical Environment. **2018**, 7, 416-423		5
380	Intensification of rice-based farming systems in Central Luzon, Philippines: Constraints at field, farm and regional levels. **2018**, 165, 55-70		13
379	Quantifying differences in water and carbon cycling between paddy and rainfed rice (Oryza sativa L.) by flux partitioning. **2018**, 13, e0195238		10
378	Analysing Dry-Seeded Rice Responses to Planting Time and Irrigation Regimes in a Subtropical Environment Using ORYZA2000 Model. **2018**, 7, 424-431		2
377	Comparison of Flooded and Furrow-Irrigated Transplanted Rice (Oryza sativa L.): Farm-Level Perspectives. **2018**, 144, 04018022		3
376	Agronomic performance of drought-resistance rice cultivars grown under alternate wetting and drying irrigation management in southeast China. **2018**, 6, 482-494		10
375	Effect of irrigation regime on grain yield, water productivity, and methane emissions in dry direct-seeded rice grown in raised beds with wheat straw incorporation. **2018**, 6, 495-508		22
374	Assessing the Efficiency of Phenotyping Early Traits in a Greenhouse Automated Platform for Predicting Drought Tolerance of Soybean in the Field. *Frontiers in Plant Science*, **2018**, 9, 587	6.2	14

373	Grain Yield, Water Productivity, and Soil Nitrogen Dynamics in Drip Irrigated Rice under Varying Nitrogen Rates. **2018**, 110, 868-878		7
372	Scale Effects of Water Saving on Irrigation Efficiency: Case Study of a Rice-Based Groundwater Irrigation System on the Sanjiang Plain, Northeast China. *Sustainability*, **2018**, 10, 47	3.6	11
371	Effects of Alternate Wetting and Drying Irrigation Regime and Nitrogen Fertilizer on Yield and Nitrogen Use Efficiency of Irrigated Rice in the Sahel. *Water (Switzerland)*, **2018**, 10, 711	3	28
370	Azolla (Azolla filiculoides) compost improves grain yield of rice (Oryza sativa L.) under different irrigation regimes. *Agricultural Water Management*, **2018**, 209, 1-10	5.9	20
369	Comparison on physiological adaptation and phosphorus use efficiency of upland rice and lowland rice under alternate wetting and drying irrigation. **2018**, 86, 195-210		26
368	Water Productivity of Rice Genotypes with Irrigation and Drainage. **2018**, 67, 508-515		6
367	Photosynthetic and yield responses of rice (Oryza sativa L.) to different water management strategies in subtropical China. **2018**, 56, 1031-1038		8
366	Boron nutrition of rice in different production systems. A review. **2018**, 38, 1		44
365	Carbon Footprint of Crop Cultivation Process Under Semiarid Conditions. **2018**, 7, 167-175		7
364	Rice root growth, photosynthesis, yield and water productivity improvements through modifying cultivation practices and water management. *Agricultural Water Management*, **2018**, 206, 67-77	5.9	23
363	Water Use and Rice Productivity for Irrigation Management Alternatives in Tanzania. *Water (Switzerland)*, **2018**, 10, 1018	3	12
362	Effects of Soil Microbes on Methane Emissions from Paddy Fields under Varying Soil Oxygen Conditions. **2018**, 110, 1738-1747		2
361	Effect of atmospheric plasma treatment on seed germination of rice (Oryza sativaL.). **2018**, 57, 01AG08		8
360	Interaction between contrasting rice genotypes and soil physical conditions induced by hydraulic stresses typical of alternate wetting and drying irrigation of soil. **2018**, 430, 233-243		15
359	Oxygen isotope enrichment in rice (Oryza sativa L.) grain organic matter captures signature of relative humidity. **2018**, 274, 503-513		4
358	Effect of intermittent irrigation following the system of rice intensification (SRI) on rice yield in a farmerâ paddy fields in Indonesia. *Paddy and Water Environment*, **2018**, 16, 715-723	1.6	7
357	Effect of zeolite application on phenology, grain yield and grain quality in rice under water stress. *Agricultural Water Management*, **2018**, 206, 241-251	5.9	18
356	Quantitative analysis of climate change impact on Zhangye Cityâ economy based on the perspective of surface runoff. **2019**, 105, 645-654		4

355	Effectiveness of Field Water Tube for Standardization of Alternate Wetting and Drying (AWD) Method of Water Management in Lowland Rice (Oryza Sativa L.). **2019**, 68, 679-689		4
354	The Effect of Dry Cultivation on Yield, Water, and Iron Use Efficiency of Rice. **2019**, 111, 1879-1891		4
353	Nitrous oxide emission and mitigation from maizeâ□wheat rotation in the upper Indo-Gangetic Plains. **2019**, 10, 489-499		20
352	Effects of water management and cultivar on carbon dynamics, plant productivity and biomass allocation in European rice systems. *Science of the Total Environment*, **2019**, 685, 1139-1151	10.2	7
351	Understanding clients, providers and the institutional dimensions of irrigation services in developing countries: A study of water markets in Bangladesh. *Agricultural Water Management*, **2019**, 222, 242-253	5.9	13
350	Impact of alternative wetting and soil drying and soil clay content on the morphological and physiological traits of rice roots and their relationships to yield and nutrient use-efficiency. *Agricultural Water Management*, **2019**, 223, 105706	5.9	19
349	Post-seasonal effects of water-saving rice production regimes on N2O emissions in an annual rice-barley rotation system. **2019**, 182, 104112		3
348	Effect of nitrogen fertiliser and cultivation method on root systems of rice subjected to alternate wetting and drying irrigation. **2019**, 175, 388-399		10
347	Greenhouse Gases from Irrigated Rice Systems under Varying Severity of Alternate-Wetting and Drying Irrigation. **2019**, 83, 1533-1541		11
346	Do alternative irrigation strategies for rice cultivation decrease water footprints at the cost of long-term soil health?. **2019**, 14, 074011		10
345	Introgression of Root and Water Use Efficiency Traits Enhances Water Productivity: An Evidence for Physiological Breeding in Rice (Oryza sativa L.). **2019**, 12, 14		15
344	Water regimes of rice fields. **2019**, 97, 05026		
343	Influence of Zeolite and Phosphorus Applications on Water Use, P Uptake and Yield in Rice under Different Irrigation Managements. *Agronomy*, **2019**, 9, 537	3.6	9
342	Dynamics of the rice rhizosphere microbial community under continuous and intermittent flooding treatment. **2019**, 249, 109326		9
341	New records of very high nitrous oxide fluxes from rice cannot be generalized for water management and climate impacts. **2019**, 116, 1464-1465		8
340	Ammonia volatilization and nitrogen leaching following top-dressing of urea from water-saving irrigated rice field: impact of two-split surge irrigation. *Paddy and Water Environment*, **2019**, 17, 45-51	1.6	5
339	Energy partitioning and evapotranspiration over a rotated paddy field in Southern China. **2019**, 276-277, 107626		9
338	Irrigation management strategies to increase water productivity in Oryza sativa (rice) in Uruguay. *Agricultural Water Management*, **2019**, 222, 161-172	5.9	24

337	The evolution of lowland rice-based production systems in Asia: Historic trends, determinants of change, future perspective. **2019**, 293-327		3
336	Ultra-structure alteration via enhanced silicon uptake in arsenic stressed rice cultivars under intermittent irrigation practices in Bengal delta basin. **2019**, 180, 770-779		20
335	Downscaling GRACE TWSA Data into High-Resolution Groundwater Level Anomaly Using Machine Learning-Based Models in a Glacial Aquifer System. **2019**, 11, 824		40
334	Potential and versatility of WEAP model (Water Evaluation and Planning System) for hydrological assessments of AWD (Alternate Wetting and Drying) in irrigated rice. *Agricultural Water Management*, **2019**, 224, 105559	5.9	5
333	Response of Vertical Migration and Leaching of Nitrogen in Percolation Water of Paddy Fields under Water-Saving Irrigation and Straw Return Conditions. *Water (Switzerland)*, **2019**, 11, 868	3	6
332	Monitoring and Mapping of Rice Cropping Pattern in Flooding Area in the Vietnamese Mekong Delta Using Sentinel-1A Data: A Case of An Giang Province. **2019**, 8, 211		41
331	Modeling soil water balance and irrigation strategies in a flood-irrigated wheat-maize rotation system. A case in dry climate, China. *Agricultural Water Management*, **2019**, 221, 286-302	5.9	15
330	Stable isotopic composition of rice grain organic matter marking an abrupt shift of hydroclimatic condition during the cultural transformation of Harappan civilization. **2019**, 512, 144-154		1
329	Improving water use efficiency, nitrogen use efficiency, and radiation use efficiency in field crops under drought stress: A review. **2019**, 156, 109-157		55
328	Intervention of molecular breeding in water saving rice production system: aerobic rice. **2019**, 9, 133		2
327	Effect of organizational paddy water management by a water user group on methane and nitrous oxide emissions and rice yield in the Red River Delta, Vietnam. *Agricultural Water Management*, **2019**, 217, 179-192	5.9	6
326	How should crop water-use efficiency be analyzed? A warning about spurious correlations. *Field Crops Research*, **2019**, 235, 59-67	5.5	10
325	The different influences of drought stress at the flowering stage on rice physiological traits, grain yield, and quality. **2019**, 9, 3742		58
324	Zeolite amendment coupled with alternate wetting and drying to reduce nitrogen loss and enhance rice production. *Field Crops Research*, **2019**, 235, 95-103	5.5	16
323	Optimizing Nitrogen Options for Improving Nitrogen Use Efficiency of Rice under Different Water Regimes. *Agronomy*, **2019**, 9, 39	3.6	14
322	Effect of Irrigation Regimes and Soil Texture on the Potassium Utilization Efficiency of Rice. *Agronomy*, **2019**, 9, 100	3.6	19
321	Determinants Of FarmersâAdoption Of Alternate Wet And Dry Techniques In Lowland Rice Production In Ghana, Uganda And Cameroon For Climate Smart Agriculture. **2019**, 53,		1
320	Growth and yield of lowland rice as affected by integrated nutrient management and cultivation method under alternate wetting and drying water regime. **2019**, 42, 580-594		10

319	Projection of 21st century irrigation water requirement across the Lower Mississippi Alluvial Valley. *Agricultural Water Management*, **2019**, 217, 60-72	5.9	8
318	Soil Management in Rice Cultivation. **2019**, 492-543		2
317	Determinants of adoption of climate-smart agriculture technologies in rice production in Vietnam. **2019**, 12, 238-256		13
316	Moisture requirement and water productivity of selected rainfed rice varieties grown under controlled water environment in Ifakara, Tanzania. **2019**, 10, 1-15		1
315	Water-saving irrigation practices for rice yield information and nitrogen use efficiency under sub-tropical monsoon climate. **2019**, 19, 2485-2493		2
314	Rice life cycle-based global mercury biotransport and human methylmercury exposure. **2019**, 10, 5164		40
313	A Climate Smartness Index (CSI) Based on Greenhouse Gas Intensity and Water Productivity: Application to Irrigated Rice. **2019**, 3,		9
312	Irrigation management and variety effects on rice grain arsenic levels in Uruguay. **2019**, 1, 100008		6
311	Seed quality in rice is most sensitive to drought and high temperature in early seed development. **2019**, 29, 238-249		8
310	Studies on root anatomy, morphology and physiology of rice grown under aerobic and anaerobic conditions. **2019**, 25, 197-205		7
309	Effects of irrigation regime and soil clay content and their interaction on the biological yield, nitrogen uptake and nitrogen-use efficiency of rice grown in southern China. *Agricultural Water Management*, **2019**, 213, 934-946	5.9	28
308	Variability of leaf photosynthetic characteristics in rice and its relationship with resistance to water stress under different nitrogen nutrition regimes. **2019**, 167, 613-627		3
307	Irrigation scheduling of paddy rice using short-term weather forecast data. *Agricultural Water Management*, **2019**, 213, 714-723	5.9	25
306	Evaluating the GHG mitigation-potential of alternate wetting and drying in rice through life cycle assessment. *Science of the Total Environment*, **2019**, 653, 1343-1353	10.2	14
305	Ground cover rice production system reduces water consumption and nitrogen loss and increases water and nitrogen use efficiencies. *Field Crops Research*, **2019**, 233, 70-79	5.5	21
304	Life cycle assessment in conventional rice farming system: Estimation of greenhouse gas emissions using cradle-to-gate approach. **2019**, 212, 1526-1535		16
303	Assimilate allocation by rice and carbon stabilisation in soil: effect of water management and phosphorus fertilisation. **2019**, 445, 153-167		17
302	Effect of water and rice straw management practices on yield and water productivity of irrigated lowland rice in the Central Plain of Thailand. *Agricultural Water Management*, **2019**, 211, 89-97	5.9	43

301	Effects of water deficit stress on agronomic and physiological responses of rice and greenhouse gas emission from rice soil under elevated atmospheric CO. *Science of the Total Environment*, **2019**, 650, 2032-2050	10.2	39
300	Technical and environmental efficiency of eco-friendly rice production in the upstream region of the Vietnamese Mekong delta. **2019**, 21, 2401-2424		4
299	Accuracies of support vector machine and random forest in rice mapping with Sentinel-1A, Landsat-8 and Sentinel-2A datasets. **2020**, 35, 1088-1108		32
298	Climate change mitigation options among farmers in South Asia. **2020**, 22, 3267-3289		24
297	Effects of mild alternate wetting and drying irrigation and mid-season drainage on CH and NO emissions in rice cultivation. *Science of the Total Environment*, **2020**, 698, 134212	10.2	20
296	Hydrus-1D model for simulating water flow through paddy soils under alternate wetting and drying irrigation practice. *Paddy and Water Environment*, **2020**, 18, 73-85	1.6	9
295	Regulation of gene expression involved in the remobilization of rice straw carbon reserves results from moderate soil drying during grain filling. **2020**, 101, 604-618		16
294	Sprinkler irrigation in lowland rice: Crop yield and its components as a function of water availability in different phenological phases. *Field Crops Research*, **2020**, 248, 107714	5.5	13
293	Leaf mass area determines water use efficiency through its influence on carbon gain in rice mutants. **2020**, 169, 194-213		8
292	Water-saving irrigation is a â□Win-winâ□management strategy in rice paddies â□With both reduced greenhouse gas emissions and enhanced water use efficiency. *Agricultural Water Management*, **2020**, 228, 105889	5.9	25
291	Intensification of rice-fallow cropping systems in the Eastern Plateau region of India: diversifying cropping systems and climate risk mitigation. **2020**, 12, 791-800		9
290	Morpho-Physiological Response of Oryza glaberrima to Gradual Soil Drying. **2020**, 27, 67-74		7
289	Growth, yield and water productivity of dry direct seeded rice and transplanted aromatic rice under different irrigation management regimes. **2020**, 19, 2656-2673		25
288	Water use inside inland valleys agro-systems in the Dano basin, Burkina Faso. **2020**, 1, 88-97		2
287	Food-centric interlinkages in agricultural food-energy-water nexus under climate change and irrigation management. **2020**, 163, 105099		13
286	Quantifying Soil Compaction in Persimmon Orchards Using ISUM (Improved Stock Unearthing Method) and Core Sampling Methods. **2020**, 10, 266		10
285	Mitigation of drought stress in rice crop with plant growth-promoting abiotic stress-tolerant rice phyllosphere bacteria. **2020**, 60, 768-786		10
284	Effects of irrigation regimes on yield and quality of upland rice and paddy rice and their interaction with nitrogen rates. *Agricultural Water Management*, **2020**, 241, 106344	5.9	5

283	Classification of Paddy Rice Using a Stacked Generalization Approach and the Spectral Mixture Method Based on MODIS Time Series. **2020**, 13, 2264-2275		6
282	Modelling water levels of northwestern India in response to improved irrigation use efficiency. **2020**, 10, 13452		21
281	Potential of Alternate Wetting and Drying Irrigation Practices for the Mitigation of GHG Emissions from Rice Fields: Two Cases in Central Luzon (Philippines). **2020**, 10, 350		10
280	Alternate wetting and drying: A water-saving and ecofriendly rice production system. *Agricultural Water Management*, **2020**, 241, 106363	5.9	32
279	Ecological studies for plant characteristics of Fimbristylis miliacea under multiple resource limitations in dry-seeded upland ecosystems. **2020**, 1-11		
278	Effects of Different Irrigation Methods on Environmental Factors, Rice Production, and Water Use Efficiency. *Water (Switzerland)*, **2020**, 12, 2239	3	5
277	Non-flooding rice yield response to straw biochar and controlled-release fertilizer. **2020**, 112, 4799-4809		1
276	Investigating Tradeoffs between Agricultural Development and Environmental Flows under Climate Change in the Stung Chinit Watershed, Cambodia. **2020**, 7, 95		3
275	Rodent damage to rice crops is not affected by the water-saving technique, alternate wetting and drying. **2020**, 93, 1431-1442		2
274	Mapping quantitative trait loci for water uptake of rice under aerobic conditions. **2020**, 23, 436-451		2
273	Effects of different sources of silicon and irrigation regime on rice yield components and silicon dynamics in the plant and soil. **2020**, 43, 2322-2335		2
272	Daily reference evapotranspiration prediction of Tieguanyin tea plants based on mathematical morphology clustering and improved generalized regression neural network. *Agricultural Water Management*, **2020**, 236, 106177	5.9	5
271	Mitigation of greenhouse gas emissions and reduced irrigation water use in rice production through water-saving irrigation scheduling, reduced tillage and fertiliser application strategies. *Science of the Total Environment*, **2020**, 739, 140215	10.2	17
270	Water usage and productivity of Boro rice at the field level and their impacts on the sustainable groundwater irrigation in the North-West Bangladesh. *Agricultural Water Management*, **2020**, 240, 106294	5.9	19
269	Effect of water-saving irrigation on the N2O dynamics and the contribution of exogenous and endogenous nitrogen to N2O production in paddy soil using 15N tracing. **2020**, 200, 104610		9
268	Agronomic Growth Performance of Super Rice under Water-Saving Irrigation Methods with Different Water-Controlled Thresholds in Different Growth Stages. *Agronomy*, **2020**, 10, 239	3.6	4
267	Reducing greenhouse gas emissions and grain arsenic and lead levels without compromising yield in organically produced rice. **2020**, 295, 106922		7
266	Trans-Disciplinary Responses to Climate Change: Lessons from Rice-Based Systems in Asia. **2020**, 8, 35		9

265	Why Technologies Often Fail to Scale: Policy and Market Failures behind Limited Scaling of Alternate Wetting and Drying in Rice in Bangladesh. *Water (Switzerland)*, **2020**, 12, 1510	3	8
264	Prediction of the effects of management practices on discharge and mineral nitrogen yield from paddy fields under future climate using APEX-paddy model. *Agricultural Water Management*, **2020**, 241, 106345	5.9	8
263	Responses of Lowland, Upland and Aerobic Rice Genotypes to Water Limitation During Different Phases. **2020**, 27, 345-354		12
262	Nitrogen fertiliser and establishment method affect growth, yield and nitrogen use efficiency of rice under alternate wetting and drying irrigation. **2020**, 176, 314-327		7
261	Water retention and warming effect of integrated rice management for the hilly areas of southwest China. **2020**, 112, 3140-3151		1
260	Midseason application of organic fertilizer improves yield and nitrogen uptake in rice. **2020**, 112, 441-449		1
259	Groundwater hydrodynamic behaviours based on water table levels to identify natural and anthropic controlling factors in the Piedmont Plain (Italy). *Science of the Total Environment*, **2020**, 716, 137051	10.2	12
258	Genotypes with enhanced expressions of acquired tolerance mechanisms showed improved growth under stress. **2020**, 25, 9-23		1
257	The effects of water and nitrogen on the roots and yield of upland and paddy rice. **2020**, 19, 1363-1374		6
256	Zeolite amendment enhances rice production, nitrogen accumulation and translocation in wetting and drying irrigation paddy field. *Agricultural Water Management*, **2020**, 235, 106126	5.9	8
255	Irrigation and fertilization management to optimize rice yield, water productivity and nitrogen recovery efficiency. **2021**, 39, 235-249		7
254	An automated rice mapping method based on flooding signals in synthetic aperture radar time series. *Remote Sensing of Environment*, **2021**, 252, 112112	13.2	25
253	Different effects of water-saving management on canopy microclimate, spikelet sterility, and rice yield in the dry and wet seasons of the sub-humid tropics in northern Ghana. *Field Crops Research*, **2021**, 260, 107978	5.5	1
252	Sustaining yield and mitigating methane emissions from rice production with plastic film mulching technique. *Agricultural Water Management*, **2021**, 245, 106667	5.9	3
251	Estimation of evapotranspiration for paddy under alternate wetting and drying irrigation practice*. **2021**, 70, 195-206		4
250	Alternate Wetting and Drying (AWD) in Broadcast rice (Oryza sativa L.) Management to Maintain Yield, Conserve Water, and Reduce Gas Emissions in Thailand. **2021**, 10, 116-130		2
249	Arsenic behavior across soil-water interfaces in paddy soils: Coupling, decoupling and speciation. **2021**, 269, 128713		5
248	Investigation of mechanisms involved in seed germination enhancement, enzymatic activity and seedling growth of rice (Oryza Sativa L.) using LPDBD (Ar+Air) plasma. **2021**, 698, 108726		7

247	The Effect of Periodic Irrigation and Different Amounts of Nitrogen Fertilizer on Yield and Yield Components of Rice. *Communications in Soil Science and Plant Analysis*, **2021**, 52, 22-31	1.5	0
246	Does ENSO strongly affect rice yield and water application in Northeast China?. *Agricultural Water Management*, **2021**, 245, 106605	5.9	1
245	Influence of Nitrogen Fertilization Pattern on Productivity, Nitrogen Use Efficiencies, and Profitability in Different Rice Production Systems. *Journal of Soil Science and Plant Nutrition*, **2021**, 21, 145-161	3.2	4
244	Rice drought risk assessment under climate change: Based on physical vulnerability a quantitative assessment method. *Science of the Total Environment*, **2021**, 751, 141481	10.2	12
243	Effects of Silicon on Growth, Yield and Fruit Quality of Cantaloupe under Drought Stress. **2021**, 13, 3153-3162		13
242	Effect of agronomic management on rice grain quality Part III: Australian water-saving irrigation practices. **2021**, 98, 249-262		2
241	Effect of seedling age on growth and yield of fine rice cultivars under alternate wetting and drying system. **2021**, 44, 1-15		6
240	Water Management and Varietal Selection Approach in Mitigation of Arsenic in Inceptisols of West Bengal, India. *Communications in Soil Science and Plant Analysis*, **2021**, 52, 1008-1022	1.5	3
239	Influence of Soil Moisture Zones on Rice Water Weevil (Coleoptera: Curculionidae) Populations in Furrow Irrigated Rice. **2021**, 50, 658-662		
238	Growing Rice with Less Water: Improving Productivity by Decreasing Water Demand. **2021**, 147-170		2
237	Effects of Soil Types and Irrigation Modes on Rice Root Morphophysiological Traits and Grain Quality. *Agronomy*, **2021**, 11, 120	3.6	2
236	Morphological and physiological change of rice (Oryza sativa L.) under water stress at early season. *IOP Conference Series: Earth and Environmental Science*, **2021**, 644, 012030	0.3	0
235	Effects of Pesticide Use on the Distributions of Grey Herons () and Great Egrets () in Rice Fields of the Republic of Korea. **2021**, 38, 162-169		1
234	Two-Stage DEA of 122 Paddy Fields in Hokuriku Region. **2021**, 151-166		
233	The Foliar Application of Rice Phyllosphere Bacteria induces Drought-Stress Tolerance in (L.). **2021**, 10,		4
232	Water-Saving Agricultural Technologies: Regional Hydrology Outcomes and Knowledge Gaps in the Eastern Gangetic Plainsâ Review. *Water (Switzerland)*, **2021**, 13, 636	3	8
231	Effect of Drought Stress and Different Levels of Nitrogen and Potassium Fertilizers on the Accumulation of Osmolytes and Chlorophyll in Rice (Oryza sativa L.). **2021**, 73, 287-296		
230	Characterization of flowering time response among recombinant inbred lines of WAB638-1/PRIMAVERA rice under reproductive stage drought stress. **2021**, 19, 1-8		1

229	Modeling and Mapping of Salt-Affected Soils through Spectral Indices in Inland Plains of Semi-arid Agro-Ecological Region. **2021**, 49, 1475-1481		
228	Morpho-agronomic traits and balance of sink and source of rice planted on upland rainfed. *IOP Conference Series: Earth and Environmental Science*, **2021**, 667, 012108	0.3	
227	Ecophysiology of drill-seeded rice under reduced nitrogen fertilizer and reduced irrigation during El Niè in Central Colombia. 1-15		
226	APSIM-Oryza model for simulating paddy consumptive water footprints under alternate wetting and drying practice for Kharagpur, West Bengal, India. *Paddy and Water Environment*, **2021**, 19, 481	1.6	1
225	Searching for âWin-Winâsolutions for food-water-GHG emissions tradeoffs across irrigation regimes of paddy rice in China. **2021**, 166, 105360		11
224	Consumptive water footprints, water use efficiencies and productivities of rice under alternate wetting and drying for Kharagpur, West Bengal, India. **2021**, 21, 2935-2946		0
223	Biochar with Alternate Wetting and Drying Irrigation: A Potential Technique for Paddy Soil Management. **2021**, 11, 367		9
222	Water Use Efficiencies, Productivities, and Footprints of Rice under a System of Rice Intensification Practice. **2021**, 1, 262-269		1
221	Climate resilient rice production system: Natural resources management approach. **2021**, 58, 143-167		0
220	Increasing Effective Use of Straw-Derived Nitrogen by Alternate Wetting/Drying Irrigation Combined with N Fertilization Addition in a SoilâRice System. *Agronomy*, **2021**, 11, 750	3.6	0
219	Molecular Breeding Approaches for Improvement and Development of Water Saving Aerobic Rice. **2021**, 382-397		0
218	Dynamics of photosynthetic induction and relaxation within the canopy of rice and two wild relatives. **2021**, 10, e286		1
217	Genome-wide association mapping of sodium and potassium concentration in rice grains and shoots under alternate wetting and drying and continuously flooded irrigation. **2021**, 134, 2315-2334		2
216	The Effect of Irrigation Management and Nitrogen Fertilizer On Grain Yield and Water-use Efficiency of Rice Cultivars in Northern Iran. **2021**, 73, 359-366		1
215	Perceptions of Glacier Grafting: An Indigenous Technique of Water Conservation for Food Security in Gilgit-Baltistan, Pakistan. *Sustainability*, **2021**, 13, 5208	3.6	0
214	Rodent management and cereal production in Asia: Balancing food security and conservation. **2021**, 77, 4249-4261		5
213	Response of Different Establishment Method on Yield Evaluation of Rice (Oryza Sativa L.) Under Rice-Wheat Cropping System, India. **2021**, 9, 37-42		
212	The outstanding rooting1 mutation gene maintains shoot growth and grain yield through promoting root development in rice under water deficit field environments.		

211	Ecological and historical perspectives of rice cultivation in Kerala: a synthesis. **2021**, 58, 241-261		0
210	Comprehensive measurement and evaluation of modern paddy cultivation with a hydroganics system under different nutrient regimes using WSN and ground-based remote sensing. **2021**, 178, 109420		3
209	Do shoot anatomical characteristics allow rice to grow well under water deficit?.		1
208	Seeding, nitrogen and irrigation management optimize rice water and nitrogen use efficiency. **2021**, 120, 325-341		3
207	Impact of Different Water Management Regimes on the Growth, Productivity, and Resource Use Efficiency of Dry Direct Seeded Rice in Central Punjab-Pakistan. *Agronomy*, **2021**, 11, 1151	3.6	1
206	Effects of irrigation schedules and phosphorus fertilizer rates on grain yield and quality of upland rice and paddy rice. **2021**, 186, 104465		3
205	Disentangling Challenges to Scaling Alternate Wetting and Drying Technology for Rice Cultivation: Distilling Lessons From 20 Years of Experience in the Philippines. **2021**, 5,		3
204	Paddy rice adaptation strategies to climate change: Transplanting date shift and BMP applications. *Agricultural Water Management*, **2021**, 252, 106926	5.9	2
203	Rewiring the Domestic U.S. Rice Trade for Reducing Irrigation Impactsâ€Implications for the Foodâ€Energyâ€Water Nexus. **2021**, 9, 9188-9198		1
202	The impact of groundwater depletion on agricultural production in India. **2021**, 16, 085003		4
201	Optimal drainage timing for mitigating methane emissions from rice paddy fields. **2021**, 394, 114986		6
200	Breeding rice for a changing climate by improving adaptations to water saving technologies. **2021**, 1		4
199	Effects of Elevated Atmospheric CO2 Concentration and Water Regime on Rice Yield, Water Use Efficiency, and Arsenic and Cadmium Accumulation in Grain. **2021**, 11, 705		2
198	Alternate wetting and drying irrigation combined with the proportion of polymer-coated urea and conventional urea rates increases grain yield, water and nitrogen use efficiencies in rice. *Field Crops Research*, **2021**, 268, 108165	5.5	12
197	Can cropland management practices lower net greenhouse emissions without compromising yield?. **2021**, 27, 4657-4670		5
196	On-farm irrigation water management in India: Challenges and research gaps*.		1
195	Use of efficient water saving techniques for production of rice in India under climate change scenario: A critical review. **2021**, 309, 127272		12
194	Evaluation of Growth, Yield, and Water Productivity of Paddy Rice with Water-Saving Irrigation and Optimization of Nitrogen Fertilization. *Agronomy*, **2021**, 11, 1629	3.6	1

193	Spikelet differentiation and degeneration in rice varieties with different panicle sizes. e320		0
192	Contrasting ability of deep and shallow rooting rice genotypes to grow through plough pans containing simulated biopores and cracks. **2021**, 467, 515		1
191	Effect on soil water availability, rather than silicon uptake by plants, explains the beneficial effect of silicon on rice during drought. **2021**, 44, 3336-3346		3
190	Hydrus-1D for Simulating Potassium Transport in Flooded Paddy Soils. *Communications in Soil Science and Plant Analysis*, 1-18	1.5	2
189	Impact of management practices on weed infestation, water productivity, rice yield and grain quality in irrigated systems in C□e d'Ivoire. *Field Crops Research*, **2021**, 270, 108209	5.5	2
188	Land accumulation: An option for improving technical and environmental efficiencies of rice production in the Vietnamese Mekong Delta. **2021**, 108, 105678		2
187	Optimized irrigation regime and planting technique improve yields and economics in aloe vera [Aloe barbadensis (Miller)]. **2021**, 167, 113539		1
186	Performance of rice (Oryza sativa (L.)) under AWD irrigation practiceâ□ brief review. *Paddy and Water Environment*, 1	1.6	2
185	Elucidation of photosynthesis and yield performance of rice (Oryza sativa L.) under drought stress conditions. 1		
184	Roles of canopy architecture and nitrogen distribution in the better performance of an aerobic than a lowland rice cultivar under water deficit. *Field Crops Research*, **2021**, 271, 108257	5.5	0
183	Benefits of controlled-release/stable fertilizers plus biochar for rice grain yield and nitrogen utilization under alternating wet and dry irrigation. **2021**, 129, 126338		1
182	Effect of seed priming with potassium nitrate on growth, fruit yield, quality and water productivity of cantaloupe under water-deficit stress. **2021**, 288, 110354		1
181	Dry Matter Production, Partitioning, and Seed Yield Under Soil Water Deficit: A Review. **2021**, 585-702		
180	The effects of dry cultivation on grain-filling and chalky grains of upland rice and paddy rice. **2020**, 9, e198		3
179	Prospects for Genetic Improvement to Increase Lowland Rice Yields with Less Water and Nitrogen. 251-266		17
178	Exploiting Diversity to Manage Weeds in Agro-Ecosystems. 267-284		1
177	Breeding for Drought and Salt Tolerant Rice (Oryza Sativa L.): Progress and Perspectives. **2007**, 531-564		20
176	Direct Seeded Rice in South Asia. **2015**, 217-252		12

175	Water Management in Rice. **2017**, 255-277	38
174	Possibility of Water Management for Mitigating Total Emission of Greenhouse Gases from Irrigated Paddy Fields. **2009**, 307-328	4
173	Abating Climate Change and Feeding the World Through Soil Carbon Sequestration. **2014**, 443-457	6
172	Rice Production, Augmentation, Escalation, and Yield Under Water Stress. **2020**, 117-128	2
171	Improving Water Use Efficiency and Nitrogen Use Efficiency in Rice Through Breeding and Genomics Approaches. **2020**, 307-337	1
170	Productivity Improvement by Reduction of Cycle Time Through Implementing Clustering: A Case Study. **2020**, 735-752	1
169	Yield reduction of direct-seeded rice under returned straw can be mitigated by appropriate water management improving soil phosphorus availability. **2020**, 71, 134	4
168	WATER MANAGEMENT AND N, P LOSSES FROM PADDY FIELDS IN SOUTHERN KOREA. **2006**, 42, 1205-1216	30
167	The blue, green and grey water footprint of rice from both a production and consumption perspective. **2010**, 219-250	17
166	Soil Texture and Cultivar Effects on Rice (Oryza sativa, L.) Grain Yield, Yield Components and Water Productivity in Three Water Regimes. **2016**, 11, e0150549	37
165	Characterizing roots and water uptake in a ground cover rice production system. **2017**, 12, e0180713	3
164	Methane efflux in rice paddy field under different irrigation managements. **2013**, 37, 431-437	19
163	Lixiviaõ de imazethapyr + imazapic em funõ do manejo de irrigaõ do arroz. **2011**, 29, 185-193	6
162	Naphthalene Acetic Acid and Irrigation Regimes Influence Paddy Yield and its Economics under Arid Conditions. 38,	1
161	Drought Stress Reduces Grain Yield by Altering Floral Meristem Development and Sink Size under Dry-Seeded Rice Cultivation. **2017**, 57, 2098-2108	9
160	Irrigation water saving through adoption of direct rice sowing technology in the Indo-Gangetic Plains: empirical evidence from Pakistan. **2016**, 11, 610-620	5
159	Integrated Weed Management in Direct-Seeded Rice: Dynamics and Economics. 81-84	1
158	Carbon Sequestration and Contribution of CO2, CH4 and N2O Fluxes to Global Warming Potential from Paddy-Fallow Fields on Mineral Soil Beneath Peat in Central Hokkaido, Japan. **2020**, 10, 6	17

157	Effects of Irrigation Regimes during Grain Filling on Grain Quality and the Concentration and Distribution of Cadmium in Different Organs of Rice. **2008**, 34, 456-464		2
156	System of Rice Intensification Principles on Growth Parameters, Yield Attributes and Yields of Rice (Oryza sativa L.). **2010**, 10, 27-33		6
155	Study of water stress effects in different growth stages on yield and yield components of different rice (Oryza sativa L.) cultivars. **2008**, 11, 1303-9		52
154	Rice Production and Water use Efficiency for Self-Sufficiency in Malaysia: A Review. **2011**, 6, 1127-1140		17
153	A multi-stakeholder partnership for the dissemination of alternate wetting and drying water-saving technology for rice farmers in the Philippines. **2017**, 2, 290-309		4
152	Human Overpopulation and Food Security. **2017**, 12-39		3
151	Human Overpopulation and Food Security. **2019**, 439-467		7
150	Productivity Betterment. **2018**, 6, 1-18		3
149	Evaluation and Selection of High Biomass Rice (<i>Oryza sativa L.</i>) for Drought Tolerance. **2015**, 06, 1962-1972		9
148	Competitiveness of Winter Rice Varieties against Weed under Dry Direct Seeded Conditions. **2017**, 08, 1415-1438		4
147	Agronomic, Water Productivity and Economic Analysis of Irrigated Rice under Different Nitrogen and Water Management Methods. **2019**, 10, 92-109		1
146	Water-saving ground cover rice production system reduces net greenhouse gas fluxes in an annual rice-based cropping system.		1
145	Investigating unproductive water losses from irrigated agricultural crops in the humid tropics through analyses of stable isotopes of water. **2020**, 24, 3627-3642		3
144	Analysis of Growth Characteristics and Yield Components According to Rice Varieties Between on Irrigated and Partially Irrigated Rice Paddy Field. **2016**, 61, 17-24		2
143	Effect of Green Manure Hairy vetch on Rice Growth and Saving of Irrigation Water. *Hangguk Tsoyang Piryo Hakhoe Chi Hangguk Tsoyang Piryo Hakhoe*, **2011**, 44, 181-186	0.2	8
142	Contribution of Biophysical Factors to Regional Variations of Evapotranspiration and Seasonal Cooling Effects in Paddy Rice in South Korea. **2021**, 13, 3992		1
141	Challenges and opportunities in productivity and sustainability of rice cultivation system: a critical review in Indian perspective. **2021**, 1-29		5
140	Coordination of root auxin with the fungus Piriformospora indica and bacterium Bacillus cereus enhances rice rhizosheath formation under soil drying. **2021**,		1

139	Technologies for Harvest and Effective Use of Water in Rainfed Agricultural Areas. **2006**, 40, 217-223	
138	Soil water management in India. **2010**, 29-42	
137	Soil moisture, field-scale toposequential position, and slope effects on yields in irrigated rice (<i>Oryza sativa</i> L.) fields in Honduras. **2013**, 04, 1-8	
136	Relationship between Characteristics of Basal Internodes and Lodging and Its Physiological Mechanism in Dry-Cultivated Rice. **2013**, 38, 848-856	0
135	From Capitalism to Neo-Medievalism: The Perverse Effects of Privatization. **2014**, 278-290	
134	Aerobic Rice Production System(ARPS): Improving Productivity and Profitability in Water-Scarce Areas of Bulacan. **2014**, 190-199	
133	4.4 Irrigation water management in Uzbekistan: analyzing the capacity of households to improve water use profitability. **2015**, 253-274	
132	Adaptability of High-Yielding Rice Cultivars in Relation to Biomass Productivity under Moderately Water Stressed Upland Conditions. **2015**, 06, 352-364	
131	3.4 Adaptation of photogrammetry for tree hedgerow and windbreak assessment in the irrigated croplands of the Khorezm region. **2015**, 135-152	
130	Effect of Aerobic Environment on Physio-Morphological Traits in Aerobic and Lowland Indica Rice Genotypes.	
129	Aerobic Rice Production System(ARPS): Improving Productivity and Profitability in Water-Scarce Areas of Bulacan. **2015**, 44-53	1
128	Evaluation of rice varieties for aerobic soil condition of eastern Uttar Pradesh. **2016**, 12, 382-384	
127	Yield, nutrient uptake and agronomic fertilizer use efficiency (FUE) of different varieties of aerobic rice (Oryza sativa L.) with different N, P and K fertigation levels. **2017**, 12, 494-503	
126	Studies on agronomic practices to mitigate crop stress in aerobic rice (Oryza sativa) at coastal deltaic areas of Karaikal. **2017**, 12, 360-364	
125	Nil□er □ayñ□ Sulama Suyu Kalitesi ve Ar□ma Tesisleri At□ksular□□ Etkileri. 249-257	0
124	Anh h□ng cua bien ph□ t□i kh□ngap lu□ phi□ □n kha n□g cung cap □m trong □t v^ n□g suat l□ tai huyen H□ B□h tinh Bac Li□. **2018**, 54(7), 70	
123	A new method for indirectly estimating infiltration of paddy fields in situ. 379, 205-210	2
122	Relationship between ISSR and SSR Markers Indicators of Drought Tolerance in Rice Genotypes. **2018**, 10, 195-206	

121	Alternate Wetting and Drying System for Water Management in Rice. **2019**, 101-110		1
120	Estimating Soil Water Contents from Field Water Tables for Potential Rice Irrigation Criteria under Contour-Levee Irrigation Systems. **2019**, 57, 15-21		0
119	Water uptake analysis in Japanese mustard spinach: A numerical approach.		
118	Effect of irrigation scheduling and live mulching of cowpea on root characteristics, consumptive use and water use efficiency of upland rice. **2020**, 57, 79-83		
117	Special issue in honour of Prof. Reto J. Strasser´-´Chlorophyll fluorescence, leaf gas exchange, and genomic analysis of chromosome segment substitution rice lines exposed to drought stress. **2020**, 58, 214-227		1
116	MITIGATION YIELD SCALED METHANE EMISSION FROM RICE GROWN IN WATER STRESS CONDITIONS WITH BIOCHAR AND SILICATE AMENDMENTS.		
115	Comparison of aerobic rice cultivation using drip systems with conventional flooding. 1-13		2
114	Improving rice water productivity using alternative irrigation (case study: north of Iran). **2021**, 21, 1216-1227		1
113	Scaling Climate-Smart Agriculture Through Interdisciplinary Research-for-Development: Learning from South and Southeast Asiaâ Rice-Based Systems. **2021**, 1-16		
112	Scaling Climate-Smart Agriculture Through Interdisciplinary Research-for-Development: Learning from South and Southeast Asiaâ Rice-Based Systems. **2021**, 1187-1202		
111	Layering smart management practices to sustainably maintain rice yields and improve water use efficiency in eastern India. *Field Crops Research*, **2022**, 275, 108341	5.5	0
110	Zeolite increases paddy soil potassium fixation, partial factor productivity, and potassium balance under alternate wetting and drying irrigation. *Agricultural Water Management*, **2022**, 260, 107294	5.9	0
109	Analysis of crop water requirements and irrigation demands for rice: Implications for increasing effective rainfall. *Agricultural Water Management*, **2022**, 260, 107285	5.9	7
108	Analysis and Identification of Relevant Variables for Precision Farming Using Harmonic Systems. **2020**, 210-232		
107	Increasing Climate Resilience of Cropping Systems in Sri Lanka. **2020**, 107-157		1
106	Nutrient Fluxes from Agriculture: Reducing Environmental Impact Through Optimum Application. **2020**, 37-51		
105	Growth, productivity and nutrient uptake of aerobic rice (Oryza sativa L.) as influenced by different nutrient management practices. **2020**, 57, 49-56		4
104	Improved water and rice residue managements reduce greenhouse gas emissions from paddy soil and increase rice yields. *Paddy and Water Environment*, 1	1.6	

103	Effect of irrigation regime and varietal selection on the yield, water productivity, energy indices and economics of rice production in the lower Gangetic Plains of Eastern India. *Agricultural Water Management*, **2021**, 262, 107327	5.9	0
102	Alternate Wetting and Drying (AWD) Mitigates the Decline in Grain Filling of Basmati 370 Due to Low Temperature in Tropical Highlands. *Agronomy*, **2021**, 11, 2345	3.6	
101	Simulating the Long-Term Effects of Fertilizer and Water Management on Grain Yield and Methane Emissions of Paddy Rice in Thailand. **2021**, 11, 1144		
100	Image Based-Phenotyping and Selection Index Based on Multivariate Analysis for Rice Hydroponic Screening under Drought Stress. **2021**, 9, 272-286		0
99	Environment-Friendly Direct Seeding Rice Technology to Foster Sustainable Rice Production. **2021**, 279-305		1
98	Enhancing Water Use Efficiency for Food Security and Sustainable Environment in South Asia. **2021**, 441-477		0
97	Comparative Performance of some Native Rice Cultivars of Wayanad Region of Western Ghats, South India under Upland and Wetland Conditions. **2018**, 25, 141-144		
96	Mechanistic Crop Growth Model Predictive Control for Precision Irrigation in Rice. **2021**,		0
95	Effect of intercropping aerobic rice with leafy vegetables on crop growth, yield and its economic efficiency. **2021**, 20, 313-317		0
94	A Model-Based Approach for Improving Surface Water Quality Management in Aquaculture Using MIKE 11: A Case of the Long Xuyen Quadangle, Mekong Delta, Vietnam. *Water (Switzerland)*, **2022**, 14, 412	3	3
93	Production, Optimization, Characterization and Drought Stress Resistance by Glucan-Rich Heteropolysaccharide From an Endophytic Fungi Colletotrichum alatae LCS1 Isolated From Clubmoss (Lycopodium clavatum). **2022**, 2,		1
92	Water-Wise Cultivation of Basmati Rice in Pakistan. **2022**, 187-229		
91	Rice Cultivation Systems. **2022**, 71-84		
90	FarmersâParticipatory Alternate Wetting and Drying Irrigation Method Reduces Greenhouse Gas Emission and Improves Water Productivity and Paddy Yield in Bangladesh. *Water (Switzerland)*, **2022**, 14, 1056	3	
89	Factors determining water use efficiency in aerobic rice. **2022**, 1, 24-40		1
88	Effect of irrigation and nitrogen management on water productivity and nutrient uptake of aerobic rice. **2022**, 59, 106-112		
87	Detecting Intra-Field Variation in Rice Yield With Unmanned Aerial Vehicle Imagery and Deep Learning.. *Frontiers in Plant Science*, **2022**, 13, 716506	6.2	0
86	The Thresholds and Management of Irrigation and Fertilization Earning Yields and Water Use Efficiency in Maize, Wheat, and Rice in China: A Meta-Analysis (1990â2020). *Agronomy*, **2022**, 12, 709	3.6	1

85	Evaluation of spatial variability of the integral energy of plant available water and its influential properties in paddy soil. *Paddy and Water Environment*, **2022**, 20, 265-276	1.6	
84	Effect of Hydroponic Waste Solution on the Early Growing Performance of Rice. *Hangguk Tsoyang Piryo Hakhoe Chi Hangguk Tsoyang Piryo Hakhoe*, **2021**, 54, 442-450	0.2	
83	The rice transcription factor Nhd1 regulates root growth and nitrogen uptake by activating nitrogen transporters.. *Plant Physiology*, **2022**,	6.6	0
82	Image_1.TIFF. **2018**,		
81	Image_2.TIFF. **2018**,		
80	Table_1.docx. **2018**,		
79	Video_1.MP4. **2018**,		
78	Video_2.MP4. **2018**,		
77	Video_3.MP4. **2018**,		
76	Video_4.MP4. **2018**,		
75	Video_5.MP4. **2018**,		
74	Video_6.MP4. **2018**,		
73	Data_Sheet_1.XLSX. **2018**,		
72	Data_Sheet_2.XLS. **2018**,		
71	Data_Sheet_3.XLS. **2018**,		
70	Data_Sheet_4.XLS. **2018**,		
69	Data_Sheet_5.XLSX. **2018**,		
68	Presentation_1.pptx. **2018**,		

67	Table_1.DOCX. **2018**,		
66	Table_2.DOCX. **2018**,		
65	Image_1.TIF. **2018**,		
64	Image_2.TIF. **2018**,		
63	Table_1.xlsx. **2018**,		
62	Table_2.xlsx. **2018**,		
61	Data_Sheet_1.pdf. **2019**,		
60	Data_Sheet_2.pdf. **2019**,		
59	Optimum Sowing Date and Nitrogen Rate Ensure Sustainable Production of Wet Direct-Seeded Rice under Water-saving Irrigation Technique. *Journal of Soil Science and Plant Nutrition*, 1	3.2	0
58	Agronomic and Environmental Determinants of Direct Seeded Rice in South Asia.. *Circular Economy and Sustainability*, **2022**, 1-38		2
57	Dissecting the combined effects of cultivar, fertilization, and irrigation on rhizosphere bacterial communities and nitrogen productivity in rice.. *Science of the Total Environment*, **2022**, 155534	10.2	0
56	Effects of Water and Nitrogen Management on Water Productivity, Nitrogen Use Efficiency and Leaching Loss in Rice Paddies. *Water (Switzerland)*, **2022**, 14, 1596	3	0
55	Nutrient Dynamics of Rice Cultivars under Different Irrigation Regimes and Systems of Cultivation. *Communications in Soil Science and Plant Analysis*, 1-17	1.5	
54	Zeolite application increases grain yield and mitigates greenhouse gas emissions under alternate wetting and drying rice system. *Science of the Total Environment*, **2022**, 156067	10.2	2
53	Performance of basmati rice (Oryza sativa L.) genotypes under different crop establishment methods. *Genetika*, **2022**, 54, 27-42	0.6	
52	Water and Nitrogen Management at the Booting Stage Affects Yield, Grain Quality, Nutrient Uptake, and Use Efficiency of Fragrant Rice Under the Agro-Climatic Conditions of South China. *Frontiers in Plant Science*, 13,	6.2	1
51	Improving Nitrogen Use Efficiency in Aerobic Rice Based on Insights Into the Ecophysiology of Archaeal and Bacterial Ammonia Oxidizers. *Frontiers in Plant Science*, 13,	6.2	1
50	Performance evaluation of a water level sensor under various turbidity levels in lowland crop production systems. *IOP Conference Series: Earth and Environmental Science*, **2022**, 1038, 012033	0.3	

49	Combined Use of Biochar with 15Nitrogen Labelled Urea Increases Rice Yield, N Use Efficiency and Fertilizer N Recovery under Water-Saving Irrigation. *Sustainability*, **2022**, 14, 7622	3.6	0
48	Nitrogenous Fertilizer Coated With Zinc Improves the Productivity and Grain Quality of Rice Grown Under Anaerobic Conditions. *Frontiers in Plant Science*, 13,	6.2	1
47	Rice Growth Performance, Nutrient Use Efficiency and Changes in Soil Properties Influenced by Biochar under Alternate Wetting and Drying Irrigation. *Sustainability*, **2022**, 14, 7977	3.6	
46	An Analytical Study for Assessing Water Productivity in Pre- and Post-Rehabilitation Period of Rural Tank System. *Advances in Civil Engineering*, **2022**, 2022, 1-10	1.3	
45	Evaluating irrigation status in the Mekong Delta through polarimetric L-band SAR data assimilation. *Remote Sensing of Environment*, **2022**, 279, 113139	13.2	0
44	Plastic film mulching combined with sand tube irrigation improved yield, water use efficiency, and fruit quality of jujube in an arid desert area of Northwest China. *Agricultural Water Management*, **2022**, 271, 107809	5.9	
43	Sulfur-driven methylmercury production in paddies continues following soil oxidation. *Journal of Environmental Sciences*, **2022**,	6.4	1
42	Effect of Water Saving Irrigation Method on Physical-Chemical Characteristics of Local Rice. *IOP Conference Series: Earth and Environmental Science*, **2022**, 1059, 012050	0.3	
41	Zeolite enhances phosphorus accumulation, translocation, and partitioning in rice under alternate wetting and drying. *Field Crops Research*, **2022**, 286, 108632	5.5	
40	Response Analysis of Rice Products on Various Conditions of Water Availability for Development of Optimal Water Sawing Irrigation. **2022**, 1059, 012035		
39	Alternate wetting and moderate soil drying irrigation counteracts the negative effects of lower nitrogen levels on rice yield.		0
38	Role of canopy temperature depression in rice. **2022**,		0
37	Optimizing the lateral dripline spacing of drip-irrigated aerobic rice to increase water productivity and profitability under the water-limited condition. **2022**, 287, 108669		0
36	Rice ponding date detection in Australia using Sentinel-2 and Planet Fusion imagery. **2022**, 273, 107907		0
35	Smart sensing and automated irrigation for sustainable rice systems: A state of the art review. **2022** ,		0
34	Early cascade rice irrigation shutoff (ECIS) conserves water: implications for cascade flood automation.		0
33	Effects of mild alternate wetting and drying irrigation and rice straw application on N2O emissions in rice cultivation. **2022**, 8, 645-654		0
32	Response of Grain Yield and Water Use Efficiency to Irrigation Regimes during Mid-Season indica Rice Genotype Improvement. **2022**, 12, 1647		0

31	Two decades of rice research in Indonesia and the Philippines: A systematic review and research agenda for the social sciences. **2022**, 9,	0
30	Water Productivity and Harvest Index Response of Paddy Rice with Alternate Wetting and Drying Practice for Adaptation to Climate Change. **2022**, 14, 3368	0
29	Relevance of acquired tolerance traits and root length in determining spikelet fertility and yield in rice.	0
28	Pruning and Water Saving Management Effects on Mango High-Density and Mature Orchards. **2022**, 12, 2623	0
27	UAV-based multispectral image analytics for generating crop coefficient maps for rice. **2022**, 15,	0
26	Estimation of Actual Evapotranspiration and Crop Coefficient of Transplanted Puddled Rice Using a Modified Non-Weighing Paddy Lysimeter. **2022**, 12, 2850	0
25	Life cycle assessment of a biomass based chemical looping combustion. **2023**, 217, 114876	0
24	Feature-based algorithm for large-scale rice phenology detection based on satellite images. **2023**, 329, 109283	0
23	Impact of various irrigation and establishment methods on yield and water use efficiency in rice. **2022**, 23, 54-61	0
22	Meta-Analysis of Factors Affecting C-N Fractions and Yield of Paddy Soils by Total Straw Return and N Fertilizer Application. **2022**, 12, 3168	0
21	Wheat Straw Burial Enhances the Root Physiology, Productivity, and Water Utilization Efficiency of Rice under Alternative Wetting and Drying Irrigation. **2022**, 14, 16394	0
20	Climate-smart technologies for reducing water footprints in different cropland ecosystems: a meso analysis.	0
19	Effect of Soil Moisture Deficit on Aerobic Rice in Temperate Australia. **2023**, 13, 168	2
18	Zeolite reduces N leaching and runoff loss while increasing rice yields under alternate wetting and drying irrigation regime. **2023**, 277, 108130	0
17	Effects of Straw Return with Nitrogen Fertilizer Reduction on Rice (Oryza sativa L.) Morphology, Photosynthetic Capacity, Yield and WaterâNitrogen Use Efficiency Traits under Different Water Regimes. **2023**, 13, 133	0
16	Spatio-Temporal Distribution Characteristics and Driving Factors of Main Grain Crop Water Productivity in the Yellow River Basin. **2023**, 12, 580	0
15	The Response of Grain Yield and Quality of Water-Saving and Drought-Resistant Rice to Irrigation Regimes. **2023**, 13, 302	0
14	Practical application of an intelligent irrigation system to rice paddies in Taiwan. **2023**, 280, 108216	0

13	Mitigation of environmental N pollution and greenhouse gas emission from double rice cropping system with a new alternate wetting and drying irrigation regime coupled with optimized N fertilization in South China. **2023**, 282, 108282	0
12	Efficacy of crop establishment techniques and weed control measures on weed dynamics, weed control efficiency and productivity in rice (Oryza sativa). **2017**, 87,	0
11	Water Stress Induced Changes in Root Traits and Yield of Irrigated Rice under Subtropical Condition. **2023**, 15, 618	0
10	Water stress response on morpho-physiology, biochemical parameters and yield of four different rice cultivars of Manipur.	0
9	Urban Vietnamese consumersâ preferences for attributes of sustainably produced rice. **2023**, 40, 286-304	0
8	PIF4 promotes water use efficiency during fluctuating light and drought resistance in rice.	0
7	Efficiency of Different Doses of Potassium on Yield of Rice Under Different Establishment Methods.	0
6	Interaction of the coupled effects of irrigation mode and nitrogen fertilizer timing on rice yield in different regions.	0
5	Acceptability and Evaluation of APSIM-Qryza for Promoting Water and Nitrogen Productivity in Paddy Fields.	0
4	Effects of irrigation and nitrogen fertilizer application on growth, yield and quality of different rice varieties in arid areas of Xinjiang. 1-10	0
3	Transcriptional Expression of Nitrogen Metabolism Genes and Primary Metabolic Variations in Rice Affected by Different Water Status. **2023**, 12, 1649	0
2	Effect of climate change-induced water-deficit stress on long-term rice yield. **2023**, 18, e0284290	0
1	Evaluating the Performance and Opportunity Cost of a Smart-Sensed Automated Irrigation System for Water-Saving Rice Cultivation in Temperate Australia. **2023**, 13, 903	0