Yield and water use of irrigated tropical aerobic rice systems

DOI: 10.1016/j.agwat.2004.11.007
Agricultural Water Management, 2005, 74, 87-105.

#	Paper	IF	Citations
395	Crop performance, nitrogen and water use in flooded and aerobic rice. **2005**, 273, 167-182		122
394	More Rice, Less Water—Integrated Approaches for Increasing Water Productivity in Irrigated Rice-Based Systems in Asia. **2005**, 8, 231-241		269
393	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
392	Performance of aerobic rice varieties under irrigated conditions in North China. *Field Crops Research* , **2006**, 97, 53-65	5.5	103
391	Developing selection protocols for weed competitiveness in aerobic rice. *Field Crops Research*, **2006** , 97, 272-285	5.5	84
390	From Flooded to Aerobic Conditions in Rice Cultivation: Consequences for Zinc Uptake. **2006**, 280, 41-47		71
389	Growth of Three Rice (Oryza sativa L.) Cultivars under Upland Conditions with Different Levels of Water Supply. **2006**, 9, 422-434		29
388	Growth of Three Rice Cultivars (Oryza sativa L.) under Upland Conditions with Different Levels of Water Supply. **2006**, 9, 435-445		27
387	Transforming Inundated Rice Cultivation. **2006**, 22, 87-100		13
386	Exploring options for water savings in lowland rice using a modelling approach. **2007**, 92, 91-114		96
385	A conceptual framework for the improvement of crop water productivity at different spatial scales. **2007**, 93, 43-60		177
384	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
383	Hormonal changes are related to the poor grain filling in the inferior spikelets of rice cultivated under non-flooded and mulched condition. *Field Crops Research*, **2007**, 101, 53-61	5.5	52
382	Rice and Water. **2007**, 92, 187-237		333
381	Inhibition of photosynthesis and energy dissipation induced by water and high light stresses in rice. **2007**, 58, 1207-17		170
380	Increasing Rice Production in Sub-Saharan Africa: Challenges and Opportunities. **2007**, 55-133		219
379	Performance of Traditional and Improved Upland Rice Cultivars under Nonfertilized and Fertilized Conditions in Northern Laos. **2007**, 47, 2473-2481		23

378	Mycorrhizal responsiveness of aerobic rice genotypes is negatively correlated with their zinc uptake when nonmycorrhizal. **2007**, 290, 283-291		64
377	Alleviating soil sickness caused by aerobic monocropping: responses of aerobic rice to soil oven-heating. **2007**, 300, 185-195		21
376	Root growth, aerenchyma development, and oxygen transport in rice genotypes subjected to drought and waterlogging. *Environmental and Experimental Botany*, **2008**, 64, 75-82	5.9	78
375	Weed management in aerobic rice systems under varying establishment methods. **2008**, 27, 660-671		57
374	Growing rice aerobically markedly decreases arsenic accumulation. **2008**, 42, 5574-9		486
373	Hormones in Rice Spikelets in Responses to Water Stress During Meiosis. **2008**, 34, 111-118		21
372	Improving water use in crop production. **2008**, 363, 639-58		338
371	Alleviating soil sickness caused by aerobic monocropping: Responses of aerobic rice to nutrient supply. *Field Crops Research*, **2008**, 107, 129-136	5.5	20
370	Genotype□environment interactions for grain yield of upland rice backcross lines in diverse hydrological environments. *Field Crops Research*, **2008**, 108, 117-125	5.5	39
369	Soil Fertility Advantages of Submerged Rice Cropping Systems. **2008**, 31, 5-23		8
368	Genotypic Variations in Responses of Lateral Root Development to Transient Moisture Stresses in Rice Cultivars. **2008**, 11, 324-335		36
367	Water Productivity Mapping (WPM) Using Landsat ETM+ Data for the Irrigated Croplands of the Syrdarya River Basin in Central Asia. **2008**, 8, 8156-8180		42
366	Biofortification in a Food Chain Approach for Rice in China. **2008**, 181-203		
365	Soil and Crop Management for Improving Iron and Zinc Nutrition of Crops. **2008**, 71-93		1
364	How Does Aerobic Rice Take Up Zinc from Low Zinc Soil? Mechanisms, Trade-Offs, and Implications for Breeding. **2008**, 153-170		1
363	Characterization of Preferential Flow Pathways through Paddy Bunds with Dye Tracer Tests. **2008**, 72, 1756-1766		30
362	Postanthesis Moderate Wetting Drying Improves Both Quality and Quantity of Rice Yield. **2008**, 100, 726-734		78
361	Malate exudation by six aerobic rice genotypes varying in zinc uptake efficiency. **2009**, 38, 2315-21		35

360	Effect of Flooding Lead Arsenate-Contaminated Orchard Soil on Growth and Arsenic and Lead Accumulation in RiceView all notes. **2009**, 40, 2800-2815		10
359	Growth and Yield of Six Rice Cultivars under Three Water-saving Cultivations. **2009**, 12, 514-525		48
358	Water losses through paddy bunds: Methods, experimental data, and simulation studies. **2009**, 369, 142-153		27
357	Alternate wetting and moderate soil drying increases grain yield and reduces cadmium accumulation in rice grains. **2009**, 89, 1728-1736		63
356	Genotypic differences in root hydraulic conductance of rice (Oryza sativa L.) in response to water regimes. **2009**, 316, 25-34		49
355	Improvement in nitrogen availability, nitrogen uptake and growth of aerobic rice following soil acidification. **2009**, 55, 705-714		17
354	Ecological safe management of terraced rice paddy landscapes. **2009**, 102, 179-192		31
353	Possible causes of yield failure in tropical aerobic rice. *Field Crops Research*, **2009**, 111, 197-206	5.5	67
352	Performance of diverse upland rice cultivars in low and high soil fertility conditions in West Africa. *Field Crops Research*, **2009**, 111, 243-250	5.5	41
351	Biotic and abiotic causes of yield failure in tropical aerobic rice. *Field Crops Research*, **2009**, 112, 97-106	5.5	51
350	Yield response of indica and tropical japonica genotypes to soil fertility conditions under rainfed uplands in northern Laos. *Field Crops Research*, **2009**, 112, 141-148	5.5	21
349	Yield potential and water use efficiency of aerobic rice (Oryza sativa L.) in Japan. *Field Crops Research*, **2009**, 113, 328-334	5.5	112
348	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
347	Causes for soil sickness affecting early plant growth in aerobic rice. *Field Crops Research*, **2009**, 114, 182-187	5.5	22
346	CO2/heat fluxes in rice fields: Comparative assessment of flooded and non-flooded fields in the Philippines. **2009**, 149, 1737-1750		85
345	Comparing rice production systems: A challenge for agronomic research and for the dissemination of knowledge-intensive farming practices. *Agricultural Water Management*, **2009**, 96, 1491-1501	5.9	50
344	Effects of Nitrogen Nutrition on Grain Quality in Upland Rice Zhonghan 3 and Paddy Rice Yangjing 9538 Under Different Cultivation Methods. **2009**, 35, 1866-1874		3
343	Chapter 2 Climate Change Affecting Rice Production. **2009**, 59-122		269

342	Weed Management in Aerobic Rice in Northwestern Indo-Gangetic Plains. **2009**, 23, 366-382		64
341	An Alternate Wetting and Moderate Soil Drying Regime Improves Root and Shoot Growth in Rice. **2009**, 49, 2246-2260		186
340	DETERMINATION OF THRESHOLD REGIME OF SOIL MOISTURE TENSION FOR SCHEDULING IRRIGATION IN TROPICAL AEROBIC RICE FOR OPTIMUM CROP AND WATER PRODUCTIVITY. **2010**, 46, 489-499		10
339	Grain Yield Performance of Selected Lowland NERICA and Modern Asian Rice Genotypes in West Africa. **2010**, 50, 281-291		20
338	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
337	Crop response of aerobic rice and winter wheat to nitrogen, phosphorus and potassium in a double cropping system. **2010**, 86, 301-315		15
336	Percolation losses in paddy fields with a dynamic soil structure: model development and applications. **2010**, 24, 813-824		16
335	Do abiotic factors cause a gradual yield decline under continuous aerobic rice cultivation? A pot experiment with affected field soils. **2010**, 56, 476-482		5
334	Geochemical Modeling of Zinc Bioavailability for Rice. **2010**, 74, 301-309		10
333	Developing Aerobic Rice Cultivars for Water-Short Irrigated and Drought-Prone Rainfed Areas in the Tropics. **2010**, 50, 2268-2276		25
332	Eco-efficient Agriculture: Concepts, Challenges, and Opportunities. **2010**, 50, S-109-S-119		172
331	Crop management techniques to enhance harvest index in rice. **2010**, 61, 3177-89		235
330	Rice production with less irrigation water is possible in a Sahelian environment. *Field Crops Research* , **2010**, 116, 154-164	5.5	71
329	Yield of aerobic rice in rainfed lowlands of the Philippines as affected by nitrogen management and row spacing. *Field Crops Research*, **2010**, 116, 165-174	5.5	53
328	Plant characteristics associated with weed competitiveness of rice under upland and lowland conditions in West Africa. *Field Crops Research*, **2010**, 116, 308-317	5.5	41
327	Genotypic adaptation of rice to lowland hydrology in West Africa. *Field Crops Research*, **2010**, 119, 290-298	5.5	11
326	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
325	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

324	Alterations of Panicle Antioxidant Metabolism and Carbohydrate Content and Pistil Water Potential Involved in Spikelet Sterility in Rice under Water-Deficit Stress. **2010**, 17, 303-310		17
323	Enhancing Green Water in Soils of South Asia. **2011**, 25, 101-133		3
322	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
321	High-yield irrigated maize in the Western U.S. Corn Belt: II. Irrigation management and crop water productivity. *Field Crops Research*, **2011**, 120, 133-141	5.5	102
320	Effect of hydrogel on the performance of aerobic rice sown under different techniques. **2011**, 57, 321-325		18
319	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
318	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
317	A simple bund plugging technique for improving water productivity in wetland rice. **2011**, 112, 66-75		22
316	Performance and Water-use Efficiency of Rice Relative to Establishment Methods in Northwestern Indo-Gangetic Plains. **2011**, 25, 597-617		31
315	Direct Seeding of Rice. **2011**, 111, 297-413		340
314	Aerobic Rice Systems. **2011**, 111, 207-247		55
313	Enhancing Rice Productivity in West Africa through Genetic Improvement. **2012**, 52, 484-493		35
312	Synergic Effect of Flooding and Nitrogen Application on Alleviation of Soil Sickness Caused by Aerobic Rice Monocropping. **2012**, 15, 246-251		2
311	Impact of Aerobic Rice Cultivation on Growth, Yield, and Water Productivity of Rice–Maize Rotation in Semiarid Tropics. **2012**, 104, 1757-1765		29
310	Application of bispyribac-sodium provides effective weed control in direct-planted rice on a sandy loam soil. **2012**, 12, 136-145		32
309	Zinc nutrition in rice production systems: a review. **2012**, 361, 203-226		118
308	Effects of Phosphorus on Grain Quality of Upland and Paddy Rice under Different Cultivation. **2012**, 19, 135-142		9
307	Productivity and Sustainability of the Rice–Wheat Cropping System in the Indo-Gangetic Plains of the Indian subcontinent. **2012**, 315-369		207

306	Soil fertility in flooded and non-flooded irrigated rice systems. **2012**, 58, 423-436		35
305	Root Morphology and Physiology in Relation to the Yield Formation of Rice. **2012**, 11, 920-926		75
304	Heat Stress in Rice Physiological Mechanisms and Adaptation Strategies. **2012**, 193-224		3
303	Field evaluation on functional roles of root plastic responses on dry matter production and grain yield of rice under cycles of transient soil moisture stresses using chromosome segment substitution lines. **2012**, 359, 107-120		38
302	Improved Management Alleviating Impact of Water Stress on Yield Decline of Tropical Aerobic Rice. **2012**, 104, 584-588		4
301	Water Deficit Condition Affecting Rice Production Challenges and Prospects. **2012**,		1
300	Aerobic rice for water-saving agriculture. A review. **2012**, 32, 411-418		55
299	Effect of variations in the redox potential of Gleysol on barium mobility and absorption in rice plants. **2012**, 89, 121-7		13
298	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
297	Surface energy partitioning and evapotranspiration over a double-cropping paddy field in Bangladesh. **2012**, 26, 1311-1320		40
296	A QTL for rice grain yield in aerobic environments with large effects in three genetic backgrounds. **2012**, 124, 323-32		47
295	Identity and variability of Pythium species associated with yield decline in aerobic rice cultivation in the Philippines. **2013**, 62, 139-153		10
294	Influence of simulated post-anthesis water stress on stem dry matter remobilization, yield and its components in rice. **2013**, 18, 177-182		4
293	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
292	The yield gap of major food crops in family agriculture in the tropics: Assessment and analysis through field surveys and modelling. *Field Crops Research*, **2013**, 143, 106-118	5.5	100
291	Adoption, constraints and economic returns of paddy rice under the system of rice intensification in Mwea, Kenya. *Agricultural Water Management*, **2013**, 129, 44-55	5.9	22
290	Drought Stress Responses in Plants, Oxidative Stress, and Antioxidant Defense. **2013**, 209-250		47
289	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

288	Assessing the effect of puddling on preferential flow processes through under bund area of lowland rice field. **2013**, 134, 61-71		18
287	Functional roles of the plasticity of root system development in biomass production and water uptake under rainfed lowland conditions. *Field Crops Research*, **2013**, 144, 288-296	5.5	50
286	Climate change and agricultural adaptation in Sri Lanka: a review. **2013**, 5, 66-76		27
285	Alternate wetting and drying irrigation for rice in Bangladesh: Is it sustainable and has plant breeding something to offer?. **2013**, 2, 120-129		54
284	Host response of rice genotypes to the rice root-knot nematode (Meloidogyne graminicola) under aerobic soil conditions. **2013**, 46, 670-681		22
283	The effect of aerobic soil conditions, soil volume and sowing date on the development of four tropical rice varieties grown in the greenhouse. **2012**, 40, 79-88		9
282	Rice performance and water use efficiency under plastic mulching with drip irrigation. *PLoS ONE*, **2013**, 8, e83103	3.7	32
281	Water Footprint and Impact of Water Consumption for Food, Feed, Fuel Crops Production in Thailand. *Water (Switzerland)*, **2014**, 6, 1698-1718	3	81
280	Rice methylmercury exposure and mitigation: a comprehensive review. **2014**, 133, 407-23		124
279	Climate Strategic Soil Management. **2014**, 5, 43-74		16
278	Set up of an automatic water quality sampling system in irrigation agriculture. **2013**, 14, 212-28		16
277	Drought tolerance, phosphorus efficiency and yield characters of upland ricelines. **2014**, 26, 25		10
276	Mitigation of greenhouse gas emission with system of rice intensification in the Indo-Gangetic Plains. *Paddy and Water Environment*, **2014**, 12, 355-363	1.6	51
275	Research productivity in soil science in the Philippines. **2014**, 100, 261-272		7
274	Differentiating transpiration from evaporation in seasonal agricultural wetlands and the link to advective fluxes in the root zone. **2014**, 484, 232-48		22
273	Methylmercury production in and export from agricultural wetlands in California, USA: the need to account for physical transport processes into and out of the root zone. **2014**, 472, 957-70		23
272	Energy efficiency of rice production in farmers fields and intensively cropped research fields in the Philippines. *Field Crops Research*, **2014**, 168, 8-18	5.5	41
271	Agronomic Biofortification of Cereal Grains with Iron and Zinc. **2014**, 125, 55-91		74

270	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
269	Development and identification of a introgression line with strong drought resistance at seedling stage derived from Oryza sativa L. mating with Oryza rufipogon Griff. **2014**, 200, 1-7		20
268	What drives sustainable biofuels? A review of indicator assessments of biofuel production systems involving smallholder farmers. **2014**, 37, 142-157		32
267	Evaluation of Ceres-Rice, Aquacrop and Oryza2000 Models in Simulation of Rice Yield Response to Different Irrigation and Nitrogen Management Strategies. **2014**, 37, 1749-1769		18
266	Improving Water Productivity of Wheat-Based Cropping Systems in South Asia for Sustained Productivity. **2014**, 157-258		59
265	Root traits and cellular level tolerance hold the key in maintaining higher spikelet fertility of rice under water limited conditions. **2014**, 41, 930-939		25
264	Reprint of "Methylmercury production in and export from agricultural wetlands in California, USA: the need to account for physical transport processes into and out of the root zone". **2014**, 484, 249-62		5
263	Major QTL for enhancing rice grain yield under lowland reproductive drought stress identified using an O. sativa/O. glaberrima introgression line. *Field Crops Research*, **2014**, 163, 119-131	5.5	25
262	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
261	The SRI (system of rice intensification) water management evaluation by SWAPP (SWAT-APEX Program) modeling in an agricultural watershed of South Korea. *Paddy and Water Environment*, **2014**, 12, 251-261	1.6	10
260	SOWING WINDOWS FOR A SPRING CROP INTRODUCED IN RICE CULTIVATION AREAS AFFECTED BY LOW TEMPERATURE AND RADIATION. **2015**, 51, 540-566		3
259	WATER SAVING, WATER PRODUCTIVITY AND YIELD OUTPUTS OF FINE-GRAIN RICE CULTIVARS UNDER CONVENTIONAL AND WATER-SAVING RICE PRODUCTION SYSTEMS. **2015**, 51, 567-581		27
258	Economic perspectives of major field crops of Pakistan: An empirical study. **2015**, 1, 145-158		54
257	Mulching Improves Water Productivity, Yield and Quality of Fine Rice under Water-saving Rice Production Systems. *Journal of Agronomy and Crop Science*, **2015**, 201, 389-400	3.9	60
256	Water Balance of Flooded Rice in the Tropics. **2015**,		2
255	CROP COEFFICIENT AND WATER PRODUCTIVITY IN CONVENTIONAL AND SYSTEM OF RICE INTENSIFICATION (SRI) IRRIGATION REGIMES OF TERRACE RICE FIELDS IN INDONESIA. **2015**, 76,		4
254	Effect of exogenously applied kinetin and glycinebetaine on metabolic and yield attributes of rice (Oryza sativa L.) under drought stress. **2015**, 27, 75		9
253	Methane and nitrous oxide emissions from rice and maize production in diversified rice cropping systems. **2015**, 101, 37-53		55

252	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
251	Effects of impulse drip irrigation systems on physiology of aerobic rice. **2015**, 20, 50-56		7
250	Uptake efficiency of 15N-urea in flooded and aerobic rice fields under semi-arid conditions. *Paddy and Water Environment*, **2015**, 13, 545-556	1.6	9
249	Agronomic Evaluation of Phosphorus Sources Applied to Upland and Lowland Rice. **2015**, 46, 1097-1111		2
248	An integrated, multisensor system for the continuous monitoring of water dynamics in rice fields under different irrigation regimes. **2015**, 187, 586		19
247	Acclimation and Tolerance Strategies of Rice under Drought Stress. **2015**, 22, 147-161		163
246	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
245	Weeds of Direct-Seeded Rice in Asia: Problems and Opportunities. **2015**, 130, 291-336		40
244	Farmers□views on the future prospects of aerobic rice culture in Pakistan. **2015**, 42, 517-526		6
243	Mitigation of arsenic in rice through deficit irrigation in field and use of filtered water in kitchen. **2015**, 12, 2065-2070		12
242	Rice responses to rising temperatures--challenges, perspectives and future directions. **2015**, 38, 1686-98		141
241	Characterization and Evaluation of Aerobic Rice Genotypes under Transplanted Condition. **2016**, 20, 45-50		
240	Managing Water and Soils to Achieve Adaptation and Reduce Methane Emissions and Arsenic Contamination in Asian Rice Production. *Water (Switzerland)*, **2016**, 8, 141	3	11
239	A consortium of rhizobacterial strains and biochemical growth elicitors improve cold and drought stress tolerance in rice (Oryza sativa L.). **2016**, 18, 471-83		50
238	Crop rotation of flooded rice with upland maize impacts the resident and active methanogenic microbial community. **2016**, 18, 2868-85		48
237	The growth characteristics and yield potential of rice (Oryza sativa) under non-flooded irrigation in arid region. **2016**, 168, 337-356		15
236	Interactions between the oomycete Pythium arrhenomanes and the rice root-knot nematode Meloidogyne graminicola in aerobic Asian rice varieties. **2016**, 9, 36		4
235	Greenhouse gas emissions and global warming potential of traditional and diversified tropical rice rotation systems. **2016**, 22, 432-48		88

234	Yield gaps in rice-based farming systems: Insights from local studies and prospects for future analysis. *Field Crops Research*, **2016**, 194, 43-56	5.5	64
233	Short and long-term effects of different irrigation and tillage systems on soil properties and rice productivity under Mediterranean conditions. **2016**, 77, 101-110		19
232	CH4 Emission in Response to Water-Saving and Drought-Resistance Rice (WDR) and Common Rice Varieties under Different Irrigation Managements. **2016**, 227, 1		11
231	Water balance implications of switching from continuous submergence to flush irrigation in a rice-growing district. *Agricultural Water Management*, **2016**, 171, 108-119	5.9	18
230	Lower global warming potential and higher yield of wet direct-seeded rice in Central China. **2016**, 36, 1		48
229	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
228	Climate Change and Agriculture: Adaptation Strategies and Mitigation Opportunities for Food Security in South Asia and Latin America. **2016**, 137, 127-235		64
227	Increasing profitability and water use efficiency of triple rice crop production in the Mekong Delta, Vietnam. *Journal of Agricultural Science*, **2016**, 154, 1015-1025	1	11
226	Water consumption and water-saving characteristics of a ground cover rice production system. **2016**, 540, 220-231		26
225	Effect of System of Rice Intensification on Water Productivity and NPS Pollution Discharge. **2016**, 65, 143-149		3
224	Greenhouse gas emission from direct seeded paddy fields under different soil water potentials in Eastern India. **2016**, 228, 111-123		46
223	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
222	Compensatory mechanisms of litter decomposition under alternating moisture regimes in tropical rice fields. **2016**, 107, 79-90		24
221	Crop establishment methods: foliar and basal nourishment of rice (Oryza sativa) cultivation affecting growth parameters, water saving, productivity and soil physical properties. *Paddy and Water Environment*, **2016**, 14, 373-386	1.6	2
220	Productivity and soil fertility of the rice□wheat system in the High Ganges River Floodplain of Bangladesh is influenced by the inclusion of legumes and manure. **2016**, 218, 40-52		42
219	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
218	Genome-wide identification of conserved microRNA and their response to drought stress in Dongxiang wild rice (Oryza rufipogon Griff.). **2016**, 38, 711-21		37
217	Dose-dependent response of Trichoderma harzianum in improving drought tolerance in rice genotypes. **2016**, 243, 1251-64		101

216	Climate ready rice: Augmenting drought tolerance with best management practices. *Field Crops Research*, **2016**, 190, 60-69	5.5	64
215	Management of complex weed flora in dry-seeded rice. **2016**, 83, 20-26		10
214	Economic assessment of different mulches in conventional and water-saving rice production systems. **2016**, 23, 9156-63		25
213	Soil water availability and capacity of nitrogen accumulation influence variations of intrinsic water use efficiency in rice. **2016**, 193, 26-36		6
212	Agronomic evaluation of mulching and iron nutrition on productivity, nutrient uptake, iron use efficiency and economics of aerobic rice-wheat cropping system. **2016**, 39, 116-135		7
211	Influence of rice varieties, nitrogen management and planting methods on methane emission and water productivity. *Paddy and Water Environment*, **2016**, 14, 325-333	1.6	13
210	Production strategies of organic basmati rice in Tarai region of Uttarakhand, India. **2017**, 7, 21-30		7
209	Surface Drainage in Transplanted Rice: Productivity, Relative Water and Leaf Rolling, Root Behaviour and Weed Dynamics. **2017**, 87, 869-876		2
208	Effect of tillage and water management on GHG emissions from Mediterranean rice growing ecosystems. **2017**, 150, 303-312		25
207	Growth and physiology of basmati rice under conventional and water-saving production systems. **2017**, 63, 1465-1476		22
206	Current Status, Challenges, and Opportunities in Rice Production. **2017**, 1-32		19
205	Rice Production Systems. **2017**, 185-205		7
204	UPLAND RICE CULTIVAR RESPONSES TO ROW SPACING AND WATER STRESS ACROSS MULTIPLE ENVIRONMENTS. **2017**, 53, 609-626		4
203	Crop establishment and nitrogen management affect greenhouse gas emission and biological activity in tropical rice production. **2017**, 104, 80-98		16
202	OsHAC4 is critical for arsenate tolerance and regulates arsenic accumulation in rice. **2017**, 215, 1090-1101		109
201	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
200	Near-isogenic lines of IR64 (Oryza sativa subsp. indica cv.) introgressed with DEEPER ROOTING 1 and STELE TRANSVERSAL AREA 1 improve rice yield formation over the background parent across three water management regimes. **2017**, 20, 249-261		4
199	Stomatal conductance, mesophyll conductance, and transpiration efficiency in relation to leaf anatomy in rice and wheat genotypes under drought. **2017**, 68, 5191-5205		97

198	Evapotranspiration, irrigation water requirement, and water productivity of rice (Oryza sativa L.) in the Sahelian environment. *Paddy and Water Environment*, **2017**, 15, 469-482	1.6	12
197	The role of water management and environmental factors on field irrigation requirements and water productivity of rice. **2017**, 35, 11-26		16
196	Modelling the effect of mulching on soil heat transfer, water movement and crop growth for ground cover rice production system. *Field Crops Research*, **2017**, 201, 97-107	5.5	32
195	Reconstruction of Genome Scale Metabolic Model and Its Responses to Varying RuBisCO Activity, Light Intensity, and Enzymatic Cost Conditions. *Frontiers in Plant Science*, **2017**, 8, 2060	6.2	11
194	Economic Performance of Traditional and Modern Rice Varieties under Different Water Management Systems. **2017**, 9, 347		14
193	An Estimation of QoS for Classified Based Approach and Nonclassified Based Approach of Wireless Agriculture Monitoring Network Using a Network Model. **2017**, 2017, 1-14		3
192	Relationship of nitrogen and crop performance in aerobic rice and continuous flooding irrigation in weathered tropical lowland. **2018**, 95, 14-23		5
191	Evaluation of stability and yield potential of upland rice genotypes in North and Northeast Thailand. **2018**, 17, 28-36		9
190	Impact of irrigation management on paddy soil N supply and depth distribution of abiotic drivers. **2018**, 261, 12-24		13
189	Aerobic rice system improves water productivity, nitrogen recovery and crop performance in Brazilian weathered lowland soil. *Field Crops Research*, **2018**, 218, 59-68	5.5	26
188	An osmotin from the resurrection plant Tripogon loliiformis (TlOsm) confers tolerance to multiple abiotic stresses in transgenic rice. **2018**, 162, 13-34		19
187	Nitrate leaching, nitrous oxide emission and N use efficiency of aerobic rice under different N application strategy. **2018**, 64, 465-479		12
186	How water amounts and management options drive Irrigation Water Productivity of rice. A multivariate analysis based on field experiment data. *Agricultural Water Management*, **2018**, 195, 47-57	5.9	19
185	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
184	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
183	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
182	Physiological Responses under Drought Stress of Improved Drought-Tolerant Rice Lines and their Parents. **2018**, 46, 679-687		25
181	Evaluation of Drip Irrigation System for Water Productivity and Yield of Rice. **2018**, 110, 2378-2389		16

180	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
179	Grain yield, growth response, and water use efficiency of direct wet-seeded rice as affected by nitrogen rates under alternate wetting and drying irrigation system. **2018**, 49, 2527-2545		3
178	An Assessment of the Vertical Movement of Water in a Flooded Paddy Rice Field Experiment Using Hydrus-1D. *Water (Switzerland)*, **2018**, 10, 783	3	10
177	Determination of the Water Potential Threshold at Which Rice Growth Is Impacted. **2018**, 7,		6
176	Genome-wide association reveals novel genomic loci controlling rice grain yield and its component traits under water-deficit stress during the reproductive stage. **2018**, 69, 4017-4032		26
175	Water management strategies and their effects on rice grain yield and nitrogen use efficiency. **2018**, 73, 257-264		6
174	Quantification of plant water uptake by water stable isotopes in rice paddy systems. **2018**, 429, 281-302		17
173	Evaluation of elite rice genotypes for physiological and yield attributes under aerobic and irrigated conditions in tarai areas of western Himalayan region. **2018**, 13, 45-52		9
172	Irrigation and Deep Tillage Effects on Productivity of Dry-Seeded Rice in a Subtropical Environment. **2018**, 7, 416-423		5
171	Quantifying differences in water and carbon cycling between paddy and rainfed rice (Oryza sativa L.) by flux partitioning. *PLoS ONE*, **2018**, 13, e0195238	3.7	10
170	Development of an integrated hydrological-irrigation optimization modeling system for a typical rice irrigation scheme in Central Vietnam. *Agricultural Water Management*, **2018**, 208, 193-203	5.9	10
169	Comparison of Flooded and Furrow-Irrigated Transplanted Rice (Oryza sativa L.): Farm-Level Perspectives. **2018**, 144, 04018022		3
168	Grain Yield, Water Productivity, and Soil Nitrogen Dynamics in Drip Irrigated Rice under Varying Nitrogen Rates. **2018**, 110, 868-878		7
167	Carbon footprint and agricultural sustainability nexus in an intensively cultivated region of Indo-Gangetic Plains. **2018**, 644, 611-623		43
166	Water Productivity of Rice Genotypes with Irrigation and Drainage. **2018**, 67, 508-515		6
165	Boron nutrition of rice in different production systems. A review. **2018**, 38, 1		44
164	Root plasticity under fluctuating soil moisture stress exhibited by backcross inbred line of a rice variety, Nipponbare carrying introgressed segments from KDML105 and detection of the associated QTLs. **2018**, 21, 106-122		7
163	Water Use and Rice Productivity for Irrigation Management Alternatives in Tanzania. *Water (Switzerland)*, **2018**, 10, 1018	3	12

162	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
161	Priming with methyl jasmonate alleviates polyethylene glycol-induced osmotic stress in rice seeds by regulating the seed metabolic profile. *Environmental and Experimental Botany*, **2018**, 153, 236-248	5.9	32
160	Micronutrient productivity: a comprehensive parameter for biofortification in rice (Oryza sativa L.) grain. **2019**, 99, 1311-1321		3
159	Water vapor flux in tropical lowland rice. **2019**, 191, 550		7
158	Dynamics of the superficial fluxes over a flooded rice paddy in southern Brazil. **2019**, 276-277, 107650		9
157	Combining alternate wetting and drying irrigation with reduced phosphorus fertilizer application reduces water use and promotes phosphorus use efficiency without yield loss in rice plants. *Agricultural Water Management*, **2019**, 223, 105686	5.9	18
156	Root anatomical traits of wild-rices reveal links between flooded rice and dryland sorghum. *Plant Physiology Reports*, **2019**, 24, 155-167	1.4	5
155	Effect of nitrogen fertiliser and cultivation method on root systems of rice subjected to alternate wetting and drying irrigation. **2019**, 175, 388-399		10
154	Grain Yield and Resource Use Efficiencies of Upland and Lowland Rice Cultivars under Aerobic Cultivation. *Agronomy*, **2019**, 9, 591	3.6	7
153	Influence of Water Management and Nitrogen Application on Rice Root and Shoot Traits. **2019**, 111, 2232-2244		6
152	Evaluation of MOD16 Algorithm over Irrigated Rice Paddy Using Flux Tower Measurements in Southern Brazil. *Water (Switzerland)*, **2019**, 11, 1911	3	11
151	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
150	A Comprehensive Modelling Approach to Assess Water Use Efficiencies of Different Irrigation Management Options in Rice Irrigation Districts of Northern Italy. *Water (Switzerland)*, **2019**, 11, 1833	3	8
149	Low soil temperature and drought stress conditions at flowering stage affect physiology and pollen traits of rice. **2019**, 18, 1859-1870		7
148	Adaptation to Climate Change Through Adaptive Crop Management. **2019**, 191-210		4
147	Development of a drought stress-resistant rice restorer line through Oryza sativa□ufipogon hybridization. **2019**, 98, 1		3
146	Rice□wheat cropping systems in South Asia: issues, options and opportunities. **2019**, 70, 395		44
145	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

144	Combining phosphorus placement and water saving technologies enhances rice production in phosphorus-deficient lowlands. *Field Crops Research*, **2019**, 236, 177-189	5.5	11
143	The magnitude and variability of lateral seepage in California rice fields. **2019**, 574, 202-210		2
142	Intervention of molecular breeding in water saving rice production system: aerobic rice. **2019**, 9, 133		2
141	Optimizing Nitrogen Options for Improving Nitrogen Use Efficiency of Rice under Different Water Regimes. *Agronomy*, **2019**, 9, 39	3.6	14
140	Projection of 21st century irrigation water requirement across the Lower Mississippi Alluvial Valley. *Agricultural Water Management*, **2019**, 217, 60-72	5.9	8
139	Estimating soil evaporation in dry seeded rice and wheat crops after wetting events. *Agricultural Water Management*, **2019**, 217, 98-106	5.9	10
138	Soil Management in Rice Cultivation. **2019**, 492-543		2
137	Moisture requirement and water productivity of selected rainfed rice varieties grown under controlled water environment in Ifakara, Tanzania. **2019**, 10, 1-15		1
136	Effects of Drought Stress on Growth and Accumulation of Proline in Five Rice Varieties (Oryza Sativa L.). **2019**, 45, 241-247		5
135	Seed quality in rice is most sensitive to drought and high temperature in early seed development. **2019**, 29, 238-249		8
134	Drought Stress Responses and Its Management in Rice. **2019**, 177-200		13
133	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
132	Developing soil matric potential based irrigation strategies of direct seeded rice for improving yield and water productivity. *Agricultural Water Management*, **2019**, 215, 8-15	5.9	9
131	Responses of aerobically grown iron chlorosis tolerant and susceptible rice (Oryza sativa L.) genotypes to soil iron management in an Inceptisol. **2019**, 65, 1387-1400		1
130	Effects of water deficit stress on agronomic and physiological responses of rice and greenhouse gas emission from rice soil under elevated atmospheric CO. **2019**, 650, 2032-2050		39
129	Diversity of endophytic bacterial community inhabiting in tropical aerobic rice under aerobic and flooded condition. **2020**, 202, 17-29		5
128	Characteristics of the root system in two Brazilian upland rice varieties which exhibit contrasting behavior towards drought tolerance. **2020**, 41, 421-434		1
127	Aerobic Rice with or without Strategic Irrigation in the Subtropics. *Agronomy*, **2020**, 10, 1831	3.6	2

126	Rainwater harvesting for supplemental irrigation under tropical inland valley swamp conditions*. **2020**, 69, 1095-1105		0
125	Alternate wetting and drying: A water-saving and ecofriendly rice production system. *Agricultural Water Management*, **2020**, 241, 106363	5.9	32
124	Mapping quantitative trait loci for water uptake of rice under aerobic conditions. **2020**, 23, 436-451		2
123	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
122	Mitigation of greenhouse gas emissions and reduced irrigation water use in rice production through water-saving irrigation scheduling, reduced tillage and fertiliser application strategies. **2020**, 739, 140215		17
121	Improving photosynthetic production in rice using integrated crop management in northeast China. **2020**, 60, 454-465		3
120	Drought Tolerant Rice for Ensuring Food Security in Eastern India. **2020**, 12, 2214		22
119	Modeling Approaches for Determining Dripline Depth and Irrigation Frequency of Subsurface Drip Irrigated Rice on Different Soil Textures. *Water (Switzerland)*, **2020**, 12, 1724	3	12
118	Boron and zinc fertilizer applications are essential in emerging vegetable-based crop rotations in Nepal. **2020**, 183, 439-454		2
117	Comparisons with wheat reveal root anatomical and histochemical constraints of rice under water-deficit stress. **2020**, 452, 547-568		13
116	Grain yield, water-use efficiency, and physiological characteristics of rice cultivars under drip irrigation with plastic-film-mulch. **2020**, 34, 414-436		7
115	Assessing the impacts of climate change on aerobic rice production using the DSSAT-CERES-Rice model. **2021**, 12, 696-708		8
114	Watering techniques and zero-valent iron biochar pH effects on As and Cd concentrations in rice rhizosphere soils, tissues and yield. **2021**, 100, 144-157		12
113	Deep tillage and irrigation impacts on crop performance of direct seeded rice–wheat cropping system in north-west India. *Paddy and Water Environment*, **2021**, 19, 113-126	1.6	2
112	Stacking for future: Pyramiding genes to improve drought and salinity tolerance in rice. **2021**, 172, 1352-1362		11
111	The role of effluent water irrigation in the mineral absorption of aerobic rice varieties (Oryza sativa L.). **2021**, 49, 493-501		0
110	Puddled and zero-till unpuddled transplanted rice are each best suited to different environments – An example from two diverse locations in the Eastern Gangetic Plains of Bangladesh. *Field Crops Research*, **2021**, 262, 108031	5.5	5
109	Functional design of smart evaporative irrigation for mina-padi system in Indonesia. *IOP Conference Series: Earth and Environmental Science*, 622, 012052	0.3	2

108	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
107	Characterization of Selected Drought Tolerance Rice Landraces: A Case in Kerala, India.		
106	Abiotic Stress Tolerance-Progress and Pathways of Sustainable Rice Production. **2021**, 13, 2078		1
105	Rice–wheat system in the northwest Indo-Gangetic plains of South Asia: issues and technological interventions for increasing productivity and sustainability. *Paddy and Water Environment*, **2021**, 19, 345	1.6	30
104	Induction of Acquired Tolerance Through Gradual Progression of Drought Is the Key for Maintenance of Spikelet Fertility and Yield in Rice Under Semi-irrigated Aerobic Conditions. *Frontiers in Plant Science*, **2020**, 11, 632919	6.2	1
103	Ecophysiology of drill-seeded rice under reduced nitrogen fertilizer and reduced irrigation during El Niño in Central Colombia. 1-15		
102	SSR marker-based study of the effects of genomic regions on Fe, Mn, Zn, and protein content in a rice diversity panel. **2021**, 30, 504-514		0
101	The potential for expansion of irrigated rice under alternate wetting and drying in Burkina Faso. *Agricultural Water Management*, **2021**, 247, 106758	5.9	14
100	Supplementary irrigation for managing the impact of terminal dry spells on the productivity of rainfed rice (L.) in Fogera Plain, Ethiopia. *Heliyon*, **2021**, 7, e06703	3.6	3
99	Climate resilient rice production system: Natural resources management approach. *Oryza*, **2021**, 58, 143-167	0.7	0
98	Molecular Breeding Approaches for Improvement and Development of Water Saving Aerobic Rice. **2021**, 382-397		0
97	Real-time application of neem-coated urea for enhancing N-use efficiency and minimizing the yield gap between aerobic direct-seeded and puddled transplanted rice. *Field Crops Research*, **2021**, 264, 108072	5.5	4
96	Effects of tillage and mulch on soil evaporation in a dry seeded rice-wheat cropping system. **2021**, 209, 104976		3
95	Ecological and historical perspectives of rice cultivation in Kerala: a synthesis. *Oryza*, **2021**, 58, 241-261	0.3	0
94	Do shoot anatomical characteristics allow rice to grow well under water deficit?. *Journal of Agronomy and Crop Science*,	3.9	1
93	Effects of irrigation schedules and phosphorus fertilizer rates on grain yield and quality of upland rice and paddy rice. *Environmental and Experimental Botany*, **2021**, 186, 104465	5.9	3
92	Transcriptome profiling of two rice genotypes under mild field drought stress during grain-filling stage. *AoB PLANTS*, **2021**, 13, plab043	2.9	3
91	Evapotranspiration and Crop Coefficient of Ratoon Rice Crop Determined by Water Depth Observation and Bayesian Inference. *Agronomy*, **2021**, 11, 1573	3.6	1

90	Potassium nutrition in rice: A review. *Oryza*, **2021**, 58, 341-353	0.3	0
89	Performance of rice (Oryza sativa (L.)) under AWD irrigation practice: A brief review. *Paddy and Water Environment*, 1	1.6	2
88	Crop Establishment Methods and Integrated Nutrient Management Improve: Part I. Crop Performance, Water Productivity and Profitability of Rice (Oryza sativa L.) in the Lower Indo-Gangetic Plain, India. *Agronomy*, **2021**, 11, 1860	3.6	4
87	Pengaruh Berbagai Varietas dan Tinggi Muka Air Terhadap Pertumbuhan dan Hasil Padi (Oryza sativa L.) Pada Tanah Alluvial. *Agriprima Journal of Applied Agricultural Sciences*, **2021**, 5, 138-150		
86	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
85	Agrodiversity in Turkey: Case Study on Rice. **2021**, 111-122		
84	Abiotic Stress in Plants: Socio-Economic Consequences and Crops Responses. **2021**, 1-28		1
83	Water Management in Rice. **2017**, 255-277		38
82	Rhizobium in Rice Yield and Growth Enhancement. *Soil Biology*, **2017**, 83-103	1	5
81	Possibility of Water Management for Mitigating Total Emission of Greenhouse Gases from Irrigated Paddy Fields. *Environmental Science and Engineering*, **2009**, 307-328	0.2	4
80	Strategies for Producing Low Arsenic Rice. **2012**, 139-151		2
79	Abating Climate Change and Feeding the World Through Soil Carbon Sequestration. **2014**, 443-457		6
78	Strategies to Practice Climate-Smart Agriculture to Improve the Livelihoods Under the Rice-Wheat Cropping System in South Asia. **2019**, 29-71		7
77	Rice Production, Augmentation, Escalation, and Yield Under Water Stress. **2020**, 117-128		2
76	Scientific Interventions to Improve Land and Water Productivity for Climate-Smart Agriculture in South Asia. **2019**, 499-558		6
75	Weed management in aerobic rice in northwestern Indo-Gangetic plains. **2010**, 297-312		1
74	Mitigation of methane gas emission in rice by drip irrigation. *F1000Research*, **2019**, 8, 2023	3.6	4
73	Enhanced Gene Expression Rather than Natural Polymorphism in Coding Sequence of the OsbZIP23 Determines Drought Tolerance and Yield Improvement in Rice Genotypes. *PLoS ONE*, **2016**, 11, e0150763	3.7	23

72	Genome-wide analysis of rice dehydrin gene family: Its evolutionary conservedness and expression pattern in response to PEG induced dehydration stress. *PLoS ONE*, **2017**, 12, e0176399	3.7	34
71	Drought Stress Reduces Grain Yield by Altering Floral Meristem Development and Sink Size under Dry-Seeded Rice Cultivation. **2017**, 57, 2098-2108		9
70	Effects of Soil Moisture and Irrigation Patterns during Grain Filling on Grain Yield and Quality of Rice and Their Physiological Mechanism. *Acta Agronomica Sinica(China)*, **2008**, 34, 268-276	1.4	7
69	Effects of Nitrogen Nutrition on Grain Quality in Upland Rice Zhonghan 3 and Paddy Rice Yangjing 9538 under Different Cultivation Methods. *Acta Agronomica Sinica(China)*, **2009**, 35, 1866-1874	1.4	2
68	Effect of soil water potential on grain quality at different spike positions during grain filling in rice. *Chinese Journal of Eco-Agriculture*, **2011**, 19, 305-311		2
67	Effect of Drought on Oryza glaberrima Rice Accessions and Oryza glaberrima Derived-lines. *Asian Journal of Agricultural Research*, **2012**, 6, 144-157	0	11
66	Roles of Glycinebetaine on Antioxidants and Gene Function in Rice Plants Under Water Stress. *Asian Journal of Plant Sciences*, **2017**, 16, 132-140	0.6	9
65	Estimation of Water Balance Components in Paddy Fields under Non-Flooded Irrigation Regimes by using Excel Solver. *Journal of Agronomy*, **2012**, 11, 53-59	0.4	7
64	Effect of Puddling and Compaction on Water Requirements of Rice at Hamelmalo, Eritrea. *Computational Water Energy and Environmental Engineering*, **2016**, 05, 27-37	0.6	1
63	Investigating unproductive water losses from irrigated agricultural crops in the humid tropics through analyses of stable isotopes of water. *Hydrology and Earth System Sciences*, **2020**, 24, 3627-3642	5.5	3
62	System of Crop Rotation: A Prospective Strategy Alleviating Grain Yield Penalty in Sustainable Aerobic Rice Production. *International Journal of Plant Production*, **2021**, 15, 577	2.4	0
61	Effects of soil water deficit on physiological causes of rice grain-filling. *Chinese Journal of Plant Ecology*, **2011**, 35, 195-202	1.2	0
60	Ecophysiology of Rice. **2013**, 1-104		
59	Evaluation of rice varieties for aerobic soil condition of eastern Uttar Pradesh. *International Journal of Agricultural Sciences*, **2016**, 12, 382-384	0	
58	Developing Climate Smart Aerobic Rice Varieties for Addressing the Problems of Water Scarcity and Global Warming. **2017**, 75-85		
57	Early Warning Techniques for Local Climate Resilience: Smallholder Rice in Lao PDR. *Natural Resource Management and Policy*, **2018**, 105-136	0.2	
56	Yield Response of Direct Seeded <i>Aus</i> Rice Varieties under Rainfed Condition. *American Journal of Plant Sciences*, **2018**, 09, 416-434	0.5	1
55	Investigation of Morphological, Yield and Yield Components of Aerobic and Lowland Rice Genotypes (Oryza sativa L.) Under Normal and Drought Stress Conditions. *Journal of Crop Breeding*, **2018**, 10, 118-128	0.1	0

54	Land use efficiency and productivity of rice (Oryza sativa) under various irrigation regimes and intercropping system. *Oryza*, **2020**, 57, 126-131	0.3	
53	MITIGATION YIELD SCALED METHANE EMISSION FROM RICE GROWN IN WATER STRESS CONDITIONS WITH BIOCHAR AND SILICATE AMENDMENTS. *International Journal of Big Data Mining for Global Warming*,	0.2	
52	Comparison of aerobic rice cultivation using drip systems with conventional flooding. *Journal of Agricultural Science*, 1-13	1	2
51	Performances of Sheet-Pipe Typed Subsurface Drainage on Land and Water Productivity of Paddy Fields in Indonesia. *Water (Switzerland)*, **2021**, 13, 48	3	4
50	Plant-atmosphere and soil-atmosphere temperature differences and their impact on grain yield of super hybrid rice under different irrigation conditions. *PLoS ONE*, **2020**, 15, e0243580	3.7	
49	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
48	Analysis of crop water requirements and irrigation demands for rice: Implications for increasing effective rainfall. *Agricultural Water Management*, **2022**, 260, 107285	5.9	7
47	The Effect of Exposure to a Combination of Stressors on Rice Productivity and Grain Yields. **2020**, 675-727		
46	Influence of Seeding Rate, Nitrogen Rate and Weed Regimes on Productivity and Nitrogen Efficiency of Dry Direct-Seeded Rice. *International Journal of Plant Production*, 1	2.4	1
45	Bioprospecting plant growth-promoting rhizobacteria from rice genotypes and their influence on growth under aerobic conditions. *Journal of Basic Microbiology*, **2021**,	2.7	
44	Land and water conservation technologies for building carbon positive villages in India. *Land Degradation and Development*,	4.4	
43	Environment-Friendly Direct Seeding Rice Technology to Foster Sustainable Rice Production. **2021**, 279-305		1
42	Integrated Approaches to Develop Drought-Tolerant Rice: Demand of Era for Global Food Security. *Journal of Plant Growth Regulation*, 1	4.7	1
41	A Model of Evapotranspirative Irrigation to Manage the Various Water Levels in the System of Rice Intensification (SRI) and Its Effect on Crop and Water Productivities. *Water (Switzerland)*, **2022**, 14, 170	3	1
40	Response of Rice Harvest Index to Different Water and Nitrogen Management Modes in the Black Soil Region of Northeast China. *Agriculture (Switzerland)*, **2022**, 12, 115	3	1
39	Rice functional genomics: decades' efforts and roads ahead. *Science China Life Sciences*, **2021**, 65, 33	8.5	10
38	Climate Change and Global Rice Security. **2022**, 13-26		0
37	Water-Wise Cultivation of Basmati Rice in Pakistan. **2022**, 187-229		

36	Irrigation Management in Rice. **2022**, 105-114		
35	Factors determining water use efficiency in aerobic rice. **2022**, 1, 24-40		1
34	Effect of irrigation and nitrogen management on water productivity and nutrient uptake of aerobic rice. *Oryza*, **2022**, 59, 106-112	0.3	
33	Direct comparisons of four irrigation systems on a commercial rice farm: Irrigation water use efficiencies and water dynamics. *Agricultural Water Management*, **2022**, 266, 107606	5.9	0
32	Irrigation control and image acquisition for rice cultivation in UAE desert soil. *IOP Conference Series: Earth and Environmental Science*, **2021**, 924, 012018	0.3	
31	Screening for drought tolerance and diversity analysis of Bangladeshi rice germplasms using morphophysiology and molecular markers. *Biologia (Poland)*, **2022**, 77, 21-37	1.5	1
30	Portfolio of Drought Stress Response and Genetic Enhancement Strategies for Development of Future Drought-Tolerant Crop. **2022**, 515-539		2
29	Innovative Pathways to Increase Resource Conservation and Nutrient Use Efficiency in Rice-Wheat Cropping Systems for Food Security and Decreased Environmental Footprints. **2022**, 511-543		
28	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
27	Greenhouse Gas Mitigation Potential of Alternate Wetting and Drying for Rice Production at National Scale: A Modeling Case Study for the Philippines. *Journal of Geophysical Research G: Biogeosciences*, **2022**, 127,	3.7	0
26	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
25	Behind the efficiency of border irrigation: Lesson learned in Northern Italy. *Agricultural Water Management*, **2022**, 269, 107717	5.9	0
24	Intensity of adoption and welfare impacts of drought-tolerant rice varieties cultivation in Bangladesh. *Heliyon*, **2022**, 8, e09490	3.6	1
23	Functional Design of Pocket Fertigation under Specific Microclimate and Irrigation Rates: A Preliminary Study. *Agronomy*, **2022**, 12, 1362	3.6	0
22	Performance of basmati rice (Oryza sativa L.) genotypes under different crop establishment methods. *Genetika*, **2022**, 54, 27-42	0.6	
21	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
20	Modeling the Water and Nitrogen Management Practices in Paddy Fields with HYDRUS-1D. *Agriculture (Switzerland)*, **2022**, 12, 924	3	2
19	Improvement and testing of ORYZA model water balance modules for alternate wetting and drying irrigation. *Agricultural Water Management*, **2022**, 271, 107802	5.9	0

18	Pyramiding of drought adaptive traits and development of doubled haploids in the traits pyramided rice (Oryza sativa L.). *Plant Physiology Reports*,	1.4
17	Identification of Drought Tolerant Rice Genotypes Based on Morpho-Physiological and Yield Traits Under Normal and Drought Stress Conditions. **2022**, 16, 390-401	
16	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
15	Exploring Biblioshiny for Historical Assessment of Global Research on Sustainable Use of Water in Agriculture. **2022**, 14, 10651	2
14	The Impact of Different Planting Systems on the Bacterial Diversity of Rice Cultivated in Saline Soil Based on 16S rRNA Gene-Based Metagenomic Insights. **2022**, 12, 1624	0
13	Two decades of rice research in Indonesia and the Philippines: A systematic review and research agenda for the social sciences. **2022**, 9,	0
12	Relevance of acquired tolerance traits and root length in determining spikelet fertility and yield in rice.	0
11	Combined application of chemical fertilizers, organics and foliar spray of zinc and iron on yield, quality and water productivity of aerobically grown rice (Oryza sativa) in calcareous soil. 1-12	0
10	Alternate wet and dry irrigation technology as a sustainable water management and disease vector control tool.	0
9	Wheat Straw Burial Enhances the Root Physiology, Productivity, and Water Utilization Efficiency of Rice under Alternative Wetting and Drying Irrigation. **2022**, 14, 16394	0
8	Spatio-Temporal Distribution Characteristics and Driving Factors of Main Grain Crop Water Productivity in the Yellow River Basin. **2023**, 12, 580	0
7	Drought alleviation efficacy of a galactose rich polysaccharide isolated from endophytic Mucor sp. HELF2: A case study on rice plant. 13,	0
6	Evaluation of seedling cultivation and irrigation regimes on yield and yield components in rice plant. 84,	0
5	Modelling water consumption and nitrogen loss in paddy fields with an improved ORYZA model. **2023**, 292, 108828	0
4	Water use, energy use efficiency and carbon footprint of transplanted rice (Oryza sativa) in response to surface drainage. **2018**, 88, 540-545	0
3	Challenges and technological interventions in rice□wheat system for resilient food□water□energy-environment nexus in North-western Indo-Gangetic Plains: A review.	0
2	Effects of water use efficiency on plant dry matter in NERICA and Japanese rice cultivars under drought conditions. **2023**, 1155, 012004	0
1	Soil solution and rice nutrition under liming and water management in a soil from Amazonian natural fields. **2023**, 47,	0