

Folkard Asch

List of Publications by Year in Descending Order

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

77
papers

2,662
citations

24
h-index

51
g-index

83
ext. papers

3,083
ext. citations

3.9
avg, IF

5.18
L-index

#	Paper	IF	Citations
77	Comprehensive assessment of extraction methods for plant tissue samples for determining sodium and potassium via flame photometer and chloride via automated flow analysis#. <i>Journal of Plant Nutrition and Soil Science</i> , 2022 , 185, 308-316	2.3	1
76	Seasonal Dynamics of Soil Moisture in an Integrated-Crop-Livestock-Forestry System in Central-West Brazil. <i>Agriculture (Switzerland)</i> , 2021 , 11, 245	3	2
75	Improved simulation of plant-animal interactions in African savannas with the extended land use change model LUCIA. <i>Ecological Modelling</i> , 2021 , 446, 109496	3	0
74	Leaf gas exchange of lowland rice in response to nitrogen source and vapor pressure deficit. <i>Journal of Plant Nutrition and Soil Science</i> , 2021 , 184, 448-460	2.3	0
73	Estimating the quantum requirements for plant growth and related electricity demand for LED lighting systems. <i>Journal Fur Verbraucherschutz Und Lebensmittelsicherheit</i> , 2021 , 16, 35-43	2.3	0
72	Growth and Photosynthesis Responses of a Super Dwarf Rice Genotype to Shade and Nitrogen Supply. <i>Rice Science</i> , 2021 , 28, 178-190	3.8	5
71	Effects of Fertilizer Micro-dose and In Situ Rain Water Harvesting Technologies on Growth and Yield of Pearl Millet in a Semi-arid Environment. <i>Agricultural Research</i> , 2020 , 9, 609-621	1.4	1
70	Methane Emission Factors from Vietnamese Rice Production: Pooling Data of 36 Field Sites for Meta-Analysis. <i>Climate</i> , 2020 , 8, 74	3.1	8
69	Modelling land use change effects on ecosystem functions in African Savannas [A review. <i>Global Food Security</i> , 2020 , 26, 100421	8.3	1
68	Creating the data basis to adapt agricultural decision support tools to new environments, land management and climate change[A case study of the RiceAdvice App. <i>Journal of Agronomy and Crop Science</i> , 2020 , 206, 423-432	3.9	4
67	Altitude, temperature, and N Management effects on yield and yield components of contrasting lowland rice cultivars. <i>Journal of Agronomy and Crop Science</i> , 2020 , 206,	3.9	3
66	Climatic determinants of lowland rice development. <i>Journal of Agronomy and Crop Science</i> , 2020 , 206, 466-477	3.9	4
65	Rice production and food security in Asian Mega deltas[A review on characteristics, vulnerabilities and agricultural adaptation options to cope with climate change. <i>Journal of Agronomy and Crop Science</i> , 2020 , 206, 491-503	3.9	28
64	Genotypic yield responses of lowland rice in high-altitude cropping systems. <i>Journal of Agronomy and Crop Science</i> , 2020 , 206, 444-455	3.9	2
63	Season-specific varietal management as an option to increase rainfed lowland rice production in East African high altitude cropping systems. <i>Journal of Agronomy and Crop Science</i> , 2020 , 206, 433-443	3.9	4
62	Crop rotation and organic matter application restore soil health and productivity of degraded highland crop farms in northwest Ethiopia. <i>Cogent Food and Agriculture</i> , 2020 , 6, 1831124	1.8	2
61	Phenology-Adjusted Stress Severity Index to Assess Genotypic Responses to Terminal Drought in Field Grown Potato. <i>Agronomy</i> , 2020 , 10, 1298	3.6	

60	Soil and landscape affecting technology transfer targeting subsistence farmers in central Tanzania. <i>Experimental Agriculture</i> , 2020 , 56, 59-75	1.7	0
59	Nutrient uptake and assimilation under varying day and night root zone temperatures in lowland rice. <i>Journal of Plant Nutrition and Soil Science</i> , 2020 , 183, 602-614	2.3	2
58	Data in brief on inter-row rainwater harvest and fertilizer application on yield of maize and pigeon-pea cropping systems in sub humid tropics. <i>Data in Brief</i> , 2019 , 26, 104456	1.2	
57	Extraction, Storage Duration, and Storage Temperature Affect the Activity of Ascorbate Peroxidase, Glutathione Reductase, and Superoxide Dismutase in Rice Tissue. <i>Biology</i> , 2019 , 8,	4.9	2
56	Potential and versatility of WEAP model (Water Evaluation and Planning System) for hydrological assessments of AWD (Alternate Wetting and Drying) in irrigated rice. <i>Agricultural Water Management</i> , 2019 , 224, 105559	5.9	5
55	Assessing Hydrological Ecosystem Services in a Rubber-Dominated Watershed under Scenarios of Land Use and Climate Change. <i>Forests</i> , 2019 , 10, 176	2.8	7
54	Soil moisture management and fertilizer micro-dosing on yield and land utilization efficiency of inter-cropping maize-pigeon-pea in sub humid Tanzania. <i>Agricultural Water Management</i> , 2019 , 223, 105712	5.0	3
53	Responses of Rice Growth to Day and Night Temperature and Relative Air Humidity-Dry Matter, Leaf Area, and Partitioning. <i>Plants</i> , 2019 , 8,	4.5	4
52	Micro-method to determine iron concentrations in plant tissues using 2,2' bipyridine. <i>Journal of Plant Nutrition and Soil Science</i> , 2018 , 181, 357-363	2.3	3
51	Boron nutrition of rice in different production systems. A review. <i>Agronomy for Sustainable Development</i> , 2018 , 38, 1	6.8	44
50	Tipping Points in the Supply of Ecosystem Services of a Mountainous Watershed in Southeast Asia. <i>Sustainability</i> , 2018 , 10, 2418	3.6	5
49	Effects of organic manure and crop rotation system on potato (<i>Solanum tuberosum</i> L.) tuber yield in the highlands of Awi Zone. <i>Ethiopian Journal of Science and Technology</i> , 2018 , 11, 1	0.7	4
48	Effects of High Impact Grazing on Species Diversity and Plant Functional Groups in Grasslands of Northern Argentina. <i>Sustainability</i> , 2018 , 10, 3153	3.6	2
47	Thermal stress impacts reproductive development and grain yield in rice. <i>Plant Physiology and Biochemistry</i> , 2017 , 115, 57-72	5.4	77
46	Measuring leaf area index in rubber plantations is a challenge. <i>Ecological Indicators</i> , 2017 , 82, 357-366	5.8	7
45	Growth and biomass yield response of clover (<i>Trifolium decorum</i>) to preceding crop and organic treatment in the highlands of Awi Administrative Zone, Ethiopia. <i>Ethiopian Journal of Science and Technology</i> , 2017 , 10, 151	0.7	4
44	Seed Coating Increases Seed Moisture Uptake and Restricts Embryonic Oxygen Availability in Germinating Cereal Seeds. <i>Biology</i> , 2017 , 6,	4.9	6
43	Seed Coating with Hydro-Absorbers as Potential Mitigation of Early Season Drought in Sorghum (<i>Sorghum bicolor</i> L. Moench). <i>Biology</i> , 2017 , 6,	4.9	4

42	Assessing Ecosystem Services in Rubber Dominated Landscapes in South-East Asia: A Challenge for Biophysical Modeling and Transdisciplinary Valuation. <i>Forests</i> , 2017 , 8, 505	2.8	10
41	High impact grazing as a management tool to optimize biomass growth in northern Argentinean grassland. <i>Ecological Indicators</i> , 2016 , 63, 100-109	5.8	9
40	Photosynthesis and Remobilization of Dry Matter in Wheat as Affected by Progressive Drought Stress at Stem Elongation Stage. <i>Journal of Agronomy and Crop Science</i> , 2016 , 202, 292-299	3.9	15
39	Associations Between Species Distribution Patterns and Soil Salinity in the Songnen Grassland. <i>Arid Land Research and Management</i> , 2015 , 29, 199-209	1.8	8
38	Seed coating reduces respiration losses and affects sugar metabolism during germination and early seedling growth in cereals. <i>Functional Plant Biology</i> , 2015 , 42, 209-218	2.7	11
37	Canopy microclimate and gas-exchange in response to irrigation system in lowland rice in the Sahel. <i>Field Crops Research</i> , 2014 , 163, 64-73	5.5	16
36	Leaf area development in response to meristem temperature and irrigation system in lowland rice. <i>Field Crops Research</i> , 2014 , 163, 74-80	5.5	11
35	Framework for participatory food security research in rural food value chains. <i>Global Food Security</i> , 2014 , 3, 8-15	8.3	66
34	Yield components in response to thermal environment and irrigation system in lowland rice in the Sahel. <i>Field Crops Research</i> , 2014 , 163, 47-54	5.5	7
33	Phenological responses of upland rice grown along an altitudinal gradient. <i>Environmental and Experimental Botany</i> , 2013 , 89, 1-10	5.9	15
32	Leaf Gas Exchange Characteristics of <i>Jatropha</i> as Affected by Nitrogen Supply, Leaf Age and Atmospheric Vapour Pressure Deficit. <i>Journal of Agronomy and Crop Science</i> , 2013 , 199, 144-153	3.9	15
31	Characterizing farming systems around Kakamega Forest, Western Kenya, for targeting soil fertility-enhancing technologies. <i>Journal of Plant Nutrition and Soil Science</i> , 2013 , 176, 585-594	2.3	9
30	Effects of Composition and Share of Seed Coatings on the Mobilization Efficiency of Cereal Seeds During Germination. <i>Journal of Agronomy and Crop Science</i> , 2012 , 198, 81-91	3.9	19
29	Latitude and Date of Sowing Influences Phenology of Photoperiod-Sensitive Sorghums. <i>Journal of Agronomy and Crop Science</i> , 2012 , 198, 340-348	3.9	13
28	Crop Improvement, Ideotyping and Modelling for African Cropping Systems Under Climate Change. <i>Journal of Agronomy and Crop Science</i> , 2012 , 198, 325-326	3.9	
27	Chlorophyll index, photochemical reflectance index and chlorophyll fluorescence measurements of rice leaves supplied with different N levels. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012 , 113, 7-13	6.7	50
26	In vivo staining of reduced iron by 2,2'-bipyridine in rice exposed to iron toxicity. <i>Journal of Plant Nutrition and Soil Science</i> , 2012 , 175, 548-552	2.3	7
25	Classification of rice genotypes based on their mechanisms of adaptation to iron toxicity. <i>Journal of Plant Nutrition and Soil Science</i> , 2012 , 175, 871-881	2.3	34

24	Effect of salinity on canopy water vapor conductance of young and 3-year old <i>Jatropha curcas</i> L.. <i>Journal of Arid Environments</i> , 2012 , 87, 35-41	2.5	11
23	Potential of Waste Water Use for <i>Jatropha</i> Cultivation in Arid Environments. <i>Agriculture (Switzerland)</i> , 2012 , 2, 376-392	3	15
22	Climate effects on yield components as affected by genotypic responses to variable environmental conditions in upland rice systems at different altitudes. <i>Field Crops Research</i> , 2012 , 134, 216-228	5.5	32
21	Cropping calendar options for rice-wheat production systems at high-altitudes. <i>Field Crops Research</i> , 2011 , 121, 158-167	5.5	18
20	Effect of pruning history on growth and dry mass partitioning of <i>jatropha</i> on a plantation site in Madagascar. <i>Biomass and Bioenergy</i> , 2011 , 35, 4892-4900	5.3	17
19	Skyfarming an ecological innovation to enhance global food security. <i>Journal Fur Verbraucherschutz Und Lebensmittelsicherheit</i> , 2011 , 6, 237-251	2.3	65
18	Variation in salt tolerance within a Georgian wheat germplasm collection. <i>Genetic Resources and Crop Evolution</i> , 2009 , 56, 1125-1130	2	19
17	Plant-rhizobacteria interactions alleviate abiotic stress conditions. <i>Plant, Cell and Environment</i> , 2009 , 32, 1682-94	8.4	567
16	Root-shoot communication of field-grown maize drought-stressed at different rates as modified by atmospheric conditions. <i>Journal of Plant Nutrition and Soil Science</i> , 2009 , 172, 678-687	2.3	7
15	Effects of transition season management on soil N dynamics and system N balances in rice-wheat rotations of Nepal. <i>Field Crops Research</i> , 2007 , 103, 98-108	5.5	34
14	Drought-induced changes in rooting patterns and assimilate partitioning between root and shoot in upland rice. <i>Field Crops Research</i> , 2005 , 93, 223-236	5.5	113
13	Iron toxicity in rice-conditions and management concepts. <i>Journal of Plant Nutrition and Soil Science</i> , 2005 , 168, 558-573	2.3	260
12	A quick and efficient screen for resistance to iron toxicity in lowland rice. <i>Journal of Plant Nutrition and Soil Science</i> , 2005 , 168, 764-773	2.3	55
11	Soluble invertase expression is an early target of drought stress during the critical, abortion-sensitive phase of young ovary development in maize. <i>Plant Physiology</i> , 2002 , 130, 591-604	6.6	198
10	Drought-induced changes in xylem pH, ionic composition, and ABA concentration act as early signals in field-grown maize (<i>Zea mays</i> L.). <i>Journal of Experimental Botany</i> , 2002 , 53, 251-63	7	150
9	Ovary abscisic acid concentration does not induce kernel abortion in field-grown maize subjected to drought. <i>European Journal of Agronomy</i> , 2001 , 15, 119-129	5	26
8	Responses of field-grown irrigated rice cultivars to varying levels of floodwater salinity in a semi-arid environment. <i>Field Crops Research</i> , 2001 , 70, 127-137	5.5	72
7	Salinity increases CO ₂ assimilation but reduces growth in field-grown, irrigated rice. <i>Plant and Soil</i> , 2000 , 218/2, 1-10	4.2	54

6	Leaf K/Na ratio predicts salinity induced yield loss in irrigated rice. <i>Euphytica</i> , 2000 , 113, 109-118	2.1	132
5	Phenological responses of <i>Oryza sativa</i> , <i>O. glaberrima</i> and inter-specific rice cultivars on a toposquence in West Africa. <i>Euphytica</i> , 1999 , 110, 109-126	2.1	28
4	Reserve mobilization, dry matter partitioning and specific leaf area in seedlings of African rice cultivars differing in early vigor. <i>Field Crops Research</i> , 1999 , 62, 191-202	5.5	49
3	Sodium and potassium uptake of rice panicles as affected by salinity and season in relation to yield and yield components. <i>Plant and Soil</i> , 1998 , 207, 133-145	4.2	68
2	Response of rice varieties to soil salinity and air humidity: A possible involvement of root-borne ABA. <i>Plant and Soil</i> , 1995 , 177, 11-19	4.2	26
1	Climatic determinants of irrigated rice performance in the Sahel II. Photothermal and micro-climatic responses of flowering. <i>Agricultural Systems</i> , 1995 , 48, 385-410	6.1	86