Aimrun Wayayok

List of Publications by Year
in descending order

53 papers	839 citations	567281 15 h-index	526287 27 g-index
53 all docs	53 docs citations	53 times ranked	1005 citing authors

#	Article	IF	Citations
1	Assessment of rice leaf chlorophyll content using visible bands at different growth stages at both the leaf and canopy scale. International Journal of Applied Earth Observation and Geoinformation, 2014, 32, 35-45.	2.8	115
2	Effective porosity of paddy soils as an estimation of its saturated hydraulic conductivity. Geoderma, 2004, 121, 197-203.	5.1	66
3	Analysis of meteorological and hydrological droughts in the Niger-South Basin, Nigeria. Global and Planetary Change, 2017, 155, 225-233.	3.5	53
4	Droplet deposition density of organic liquid fertilizer at low altitude UAV aerial spraying in rice cultivation. Computers and Electronics in Agriculture, 2019, 167, 105045.	7.7	49
5	Leaf chlorophyll and nitrogen dynamics and their relationship to lowland rice yield for site-specific paddy management. Information Processing in Agriculture, 2017, 4, 259-268.	4.1	48
6	Wetting patterns estimation under drip irrigation systems using an enhanced empirical model. Agricultural Water Management, 2016, 176, 203-213.	5.6	43
7	Spatial variability of bulk soil electrical conductivity in a Malaysian paddy field: key to soil management. Paddy and Water Environment, 2007, 5, 113-121.	1.8	30
8	Some Emerging Opportunities of Nanotechnology Development for Soilless and Microgreen Farming. Agronomy, 2021, 11, 1213.	3.0	30
9	Impacts of climate change on soybean production under different treatments of field experiments considering the uncertainty of general circulation models. Agricultural Water Management, 2018, 205, 63-71.	5.6	29
10	Deep Convolutional Neural Network for Large-Scale Date Palm Tree Mapping from UAV-Based Images. Remote Sensing, 2021, 13, 2787.	4.0	28
11	Pedo-transfer function for saturated hydraulic conductivity of lowland paddy soils. Paddy and Water Environment, 2009, 7, 217-225.	1.8	25
12	Utilizing TVDI and NDWI to Classify Severity of Agricultural Drought in Chuping, Malaysia. Agronomy, 2021, 11, 1243.	3.0	24
13	Evaluation of Leaf Total Nitrogen Content for Nitrogen Management in a Malaysian Paddy Field by Using Soil Plant Analysis Development Chlorophyll Meter. American Journal of Agricultural and Biological Science, 2009, 4, 278-282.	0.4	22
14	Uncertainty analysis of rainfall depth duration frequency curves using the bootstrap resampling technique. Journal of Earth System Science, 2019, 128, 1.	1.3	19
15	The influence of magnetized water on soil water dynamics under drip irrigation systems. Agricultural Water Management, 2017, 180, 70-77.	5.6	18
16	Generation of a stochastic precipitation model for the tropical climate. Theoretical and Applied Climatology, 2018, 133, 489-509.	2.8	18
17	Relationship between Rice Yield and Apparent Electrical Conductivity of Paddy Soils. American Journal of Applied Sciences, 2010, 7, 63-70.	0.2	16
18	Assessment of Nutrient Leaching in Flooded Paddy Rice Field Experiment Using Hydrus-1D. Water (Switzerland), 2018, 10, 785.	2.7	16

#	Article	IF	Citations
19	An Assessment of the Vertical Movement of Water in a Flooded Paddy Rice Field Experiment Using Hydrus-1D. Water (Switzerland), 2018, 10, 783.	2.7	15
20	Development of an Automated Multidirectional Pest Sampling Detection System Using Motorized Sticky Traps. IEEE Access, 2021, 9, 67391-67404.	4.2	14
21	HYDRUS-1D Simulation of Soil Water Dynamics for Sweet Corn under Tropical Rainfed Condition. Applied Sciences (Switzerland), 2020, 10, 1219.	2.5	12
22	Spatio-temporal dynamics of rainfall erosivity due to climate change in Cameron Highlands, Malaysia. Modeling Earth Systems and Environment, 2021, 7, 1847-1861.	3.4	12
23	Paddy Field Zone Characterization using Apparent Electrical Conductivity for Rice Precision Farming. International Journal of Agricultural Research, 2010, 6, 10-28.	0.1	11
24	Weed Detection in Rice Fields Using Remote Sensing Technique: A Review. Applied Sciences (Switzerland), 2021, 11, 10701.	2.5	11
25	Detection of BPH (brown planthopper) sheath blight in rice farming using multispectral remote sensing. Geomatics, Natural Hazards and Risk, 2016, 7, 237-247.	4.3	10
26	Stochastic modelling of seasonal and yearly rainfalls with low-frequency variability. Stochastic Environmental Research and Risk Assessment, 2017, 31, 2215-2233.	4.0	8
27	Apparent Electrical Conductivity in Correspondence to Soil Chemical Properties and Plant Nutrients in Soil. Communications in Soil Science and Plant Analysis, 2011, 42, 1447-1461.	1.4	7
28	Relationship between apparent electrical conductivity and soil physical properties in a Malaysian paddy field. Archives of Agronomy and Soil Science, 2012, 58, 155-168.	2.6	7
29	Influence of soil cover on moisture content and weed suppression under system of rice intensification (SRI). Paddy and Water Environment, 2016, 14, 159-167.	1.8	7
30	Dynamics of potential precipitation under climate change scenarios at Cameron highlands, Malaysia. SN Applied Sciences, 2021, 3, 1.	2.9	7
31	Vegetation Effects on Soil Moisture Retrieval from Water Cloud Model Using PALSAR-2 for Oil Palm Trees. Remote Sensing, 2021, 13, 4023.	4.0	7
32	Comprehensive Vulnerability Assessment of Urban Areas Using an Integration of Fuzzy Logic Functions: Case Study of Nasiriyah City in South Iraq. Earth, 2022, 3, 699-732.	2.2	7
33	Spatial Variability of Irrigation Water Percolation Rates and Its Relation to Rice Productivity. American Journal of Applied Sciences, 2010, 7, 51-55.	0.2	6
34	The effect of pipe collectors in reducing the drainage coefficient rate. Water Science and Technology: Water Supply, 2015, 15, 675-682.	2.1	6
35	Title is missing!. ScienceAsia, 2003, 29, 7.	0.5	6
36	Assessment of Water Application Losses through Irrigation Surveys: A Case Study of Mirpurkhas Subdivision, Jamrao Irrigation Scheme, Sindh, Pakistan. Indian Journal of Science and Technology, 2015, 8, .	0.7	4

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37	Investigation of Salinity Consequences Resulting from Drainage Systems Using Numerical Models. Journal of Irrigation and Drainage Engineering - ASCE, 2017, 143, .	1.0	4
38	Response of Nitrogen Content for Some Varieties of Kenaf Fiber (Hibiscus Cannabinus L.) by Applying Different Levels of Potassium, Boron and Zinc. Agriculture and Agricultural Science Procedia, 2014, 2, 375-380.	0.6	3
39	Impact of Mulch on Weed Infestation in System of Rice Intensification (SRI) Farming. Agriculture and Agricultural Science Procedia, 2014, 2, 353-360.	0.6	3
40	Interceptor Drainage Modelling to Manage High Groundwater Table on the Abyek Plain, Iran. Irrigation and Drainage, 2016, 65, 341-359.	1.7	3
41	Preliminary Study of Variable Rate Application â€" Organic Liquid Fertilizer by Using SPAD Chlorophyll Meter on System of Rice Intensification (SRI) Cultivation. Communications in Soil Science and Plant Analysis, 2019, 50, 639-649.	1.4	3
42	Calibration of the Aquacrop Model to Simulate Sugar Beet Production and Water Productivity under Different Treatments. Applied Engineering in Agriculture, 2019, 35, 211-219.	0.7	3
43	Sugar Beet Performance Affected by Uniformity of N Fertigation. American Journal of Applied Sciences, 2010, 7, 366-370.	0.2	2
44	Effect of Soil Compaction and Palm Oil Application on Soil Infiltration Rate. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, .	1.0	2
45	Temporal Changes Analysis of Soil Properties Associated with Ganoderma boninense Pat. Infection in Oil Palm Seedlings in a Controlled Environment. Agronomy, 2021, 11, 2279.	3.0	2
46	Using scenario modelling for adapting to urbanization and water scarcity: towards a sustainable city in semi-arid areas. Periodicals of Engineering and Natural Sciences, 2021, 10, 518.	0.5	2
47	Assessment of seawater intrusion in Langat basin, Malaysia. Water Management, 2013, 166, 501-515.	1.2	1
48	Optimization of vacuum manifold design for seeding of SRI seedling tray. Cogent Engineering, 2019, 6, .	2.2	1
49	Spatial Variations in Water-Holding Capacity as Evidence of the Need for Precision Irrigation. Water (Switzerland), 2021, 13, 2208.	2.7	1
50	Impact of Sprinkler Irrigation Uniformity on the Variability of Sugar Beet Leaf N Content. International Journal of Soil Science, 2010, 5, 206-215.	0.7	1
51	Comparison of Field and SAR-Derived Descriptors in the Retrieval of Soil Moisture from Oil Palm Crops Using PALSAR-2. Remote Sensing, 2021, 13, 4729.	4.0	1
52	Optimizing Approach of Water Allocation to Off-Takes During Reduced Flows. Water Resources Management, 2022, 36, 891.	3.9	1
53	Field Testing of an Automatic Control System for SMART Sprayer. Advanced Science Letters, 2018, 24, 4384-4386.	0.2	0