Huihui Zhang

List of Publications by Year
in descending order

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41 papers	1,295 citations	361045 20 h-index	360668 35 g-index
42 all docs	42 docs citations	42 times ranked	1307 citing authors

#	Article	IF	Citations
1	Water productivity under strategic growth stage-based deficit irrigation in maize. Agricultural Water Management, 2019, 212, 433-440.	2.4	122
2	Maize Canopy Temperature Extracted From UAV Thermal and RGB Imagery and Its Application in Water Stress Monitoring. Frontiers in Plant Science, 2019, 10, 1270.	1.7	107
3	Estimating Above-Ground Biomass of Maize Using Features Derived from UAV-Based RGB Imagery. Remote Sensing, 2019, 11, 1261.	1.8	104
4	Mapping Maize Water Stress Based on UAV Multispectral Remote Sensing. Remote Sensing, 2019, 11, 605.	1.8	100
5	Current status and future directions of precision aerial application for site-specific crop management in the USA. Computers and Electronics in Agriculture, 2010, 74, 34-38.	3.7	80
6	Comparison of three crop water stress index models with sap flow measurements in maize. Agricultural Water Management, 2018, 203, 366-375.	2.4	59
7	Estimating maize water stress by standard deviation of canopy temperature in thermal imagery. Agricultural Water Management, 2016, 177, 400-409.	2.4	55
8	Coordinated decline in photosynthesis and hydraulic conductance during drought stress in Zea mays. Flora: Morphology, Distribution, Functional Ecology of Plants, 2017, 227, 1-9.	0.6	49
9	Applications and Prospects of Agricultural Unmanned Aerial Vehicle Obstacle Avoidance Technology in China. Sensors, 2019, 19, 642.	2.1	49
10	Biophysical response of young pomegranate trees to surface and sub-surface drip irrigation and deficit irrigation. Irrigation Science, 2017, 35, 425-435.	1.3	41
11	Detection of Helminthosporium Leaf Blotch Disease Based on UAV Imagery. Applied Sciences (Switzerland), 2019, 9, 558.	1.3	40
12	Mapping maize crop coefficient Kc using random forest algorithm based on leaf area index and UAV-based multispectral vegetation indices. Agricultural Water Management, 2021, 252, 106906.	2.4	38
13	Satellite-based crop coefficient and regional water use estimates for Hawaiian sugarcane. Field Crops Research, 2015, 180, 143-154.	2.3	37
14	Accurate Weed Mapping and Prescription Map Generation Based on Fully Convolutional Networks Using UAV Imagery. Sensors, 2018, 18, 3299.	2.1	37
15	Drift and deposition of pesticide applied by UAV on pineapple plants under different meteorological conditions. International Journal of Agricultural and Biological Engineering, 2018, 11, 5-12.	0.3	35
16	Evaluating the sensitivity of water stressed maize chlorophyll and structure based on UAV derived vegetation indices. Computers and Electronics in Agriculture, 2021, 185, 106174.	3.7	32
17	Integration of spectroscopy and image for identifying fusarium damage in wheat kernels. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 236, 118344.	2.0	31
18	Response of Maize Yield Components to Growth Stageâ€Based Deficit Irrigation. Agronomy Journal, 2019, 111, 3244-3252.	0.9	30

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19	Stomatal conductance, xylem water transport, and root traits underpin improved performance under drought and well-watered conditions across a diverse panel of maize inbred lines. Field Crops Research, 2019, 234, 119-128.	2.3	24
20	Fusion of remotely sensed data from airborne and ground-based sensors to enhance detection of cotton plants. Computers and Electronics in Agriculture, 2013, 93, 55-59.	3.7	23
21	Rain Water Deficit and Irrigation Demand of Major Row Crops in the Mississippi Delta. Transactions of the ASABE, 2018, 61, 927-935.	1.1	23
22	Estimating fractional vegetation cover of maize under water stress from UAV multispectral imagery using machine learning algorithms. Computers and Electronics in Agriculture, 2021, 189, 106414.	3.7	22
23	Fusion of Deep Convolution and Shallow Features to Recognize the Severity of Wheat Fusarium Head Blight. Frontiers in Plant Science, 2020, 11, 599886.	1.7	15
24	Improved soil water deficit estimation through the integration of canopy temperature measurements into a soil water balance model. Irrigation Science, 2018, 36, 187-201.	1.3	14
25	Performance Characterization of the UAV Chemical Application Based on CFD Simulation. Agronomy, 2019, 9, 308.	1.3	13
26	Winter Wheat Mapping Based on Sentinel-2 Data in Heterogeneous Planting Conditions. Remote Sensing, 2019, 11, 2647.	1.8	13
27	A Decade of Unmanned Aerial Systems in Irrigated Agriculture in the Western U.S.. Applied Engineering in Agriculture, 2020, 36, 423-436.	0.3	12
28	Influence of Irrigation Scheduling Using Thermometry on Peach Tree Water Status and Yield under Different Irrigation Systems. Agronomy, 2017, 7, 12.	1.3	11
29	Long-term productivity of early season peach trees under different irrigation methods and postharvest deficit irrigation. Agricultural Water Management, 2020, 230, 105940.	2.4	11
30	The mean value of gaussian distribution of excess green index: A new crop water stress indicator. Agricultural Water Management, 2021, 251, 106866.	2.4	10
31	Modeling maize production under growth stage-based deficit irrigation management with RZWQM2. Agricultural Water Management, 2021, 248, 106767.	2.4	8
32	Evaluation of droplet deposition and effect of variable-rate application by a manned helicopter with AG-NAV GuéŸ† system. International Journal of Agricultural and Biological Engineering, 2019, 12, 172-178.	0.3	8
33	Management of Postharvest Deficit Irrigation of Peach Trees Using Infrared Canopy Temperature. Vadose Zone Journal, 2013, 12, 1-11.	1.3	7
34	Soil Microbial Community Composition in a Peach Orchard Under Different Irrigation Methods and Postharvest Deficit Irrigation. Soil Science, 2016, 181, 208-215.	0.9	7
35	A Fixed-Threshold Method for Estimating Fractional Vegetation Cover of Maize under Different Levels of Water Stress. Remote Sensing, 2021, 13, 1009.	1.8	7
36	Droplet Size Distribution Characteristics of Aerial Nozzles by Bell206L4 Helicopter under Medium and Low Airflow Velocity Wind Tunnel Conditions and Field Verification Test. Applied Sciences (Switzerland), 2020, 10, 2179.	1.3	6

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37	Modeling Evapotranspiration and Crop Growth of Irrigated and Non-Irrigated Corn in the Texas High Plains Using RZWQM. Transactions of the ASABE, 2018, 61, 1653-1666.	1.1	5
38	Physiological trait networks enhance understanding of crop growth and water use in contrasting environments. Plant, Cell and Environment, 2022, 45, 2554-2572.	2.8	5
39	Effects of image spatial resolution and statistical scale on water stress estimation performance of MGDEXG: A new crop water stress indicator derived from RGB images. Agricultural Water Management, 2022, 264, 107506.	2.4	4
40	USDA-ARS Colorado maize growth and development, yield and water-use under strategic timing of irrigation, 2012â€“2013. Data in Brief, 2018, 21, 1227-1231.	0.5	0
41	Monitoring Nitrogen Status on Crop Canopy Using Neural Network-Based Multisensor Fusion. Sensor Letters, 2014, 12, 692-699.	0.4	0