

Huihui Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

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	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. <i>Agricultural Water Management</i> , 2022, 264, 107506.	2.4	4
2	Physiological trait networks enhance understanding of crop growth and water use in contrasting environments. <i>Plant, Cell and Environment</i> , 2022, 45, 2554-2572.	2.8	5
3	A Fixed-Threshold Method for Estimating Fractional Vegetation Cover of Maize under Different Levels of Water Stress. <i>Remote Sensing</i> , 2021, 13, 1009.	1.8	7
4	Modeling maize production under growth stage-based deficit irrigation management with RZWQM2. <i>Agricultural Water Management</i> , 2021, 248, 106767.	2.4	8
5	The mean value of gaussian distribution of excess green index: A new crop water stress indicator. <i>Agricultural Water Management</i> , 2021, 251, 106866.	2.4	10
6	Mapping maize crop coefficient Kc using random forest algorithm based on leaf area index and UAV-based multispectral vegetation indices. <i>Agricultural Water Management</i> , 2021, 252, 106906.	2.4	38
7	Evaluating the sensitivity of water stressed maize chlorophyll and structure based on UAV derived vegetation indices. <i>Computers and Electronics in Agriculture</i> , 2021, 185, 106174.	3.7	32
8	Estimating fractional vegetation cover of maize under water stress from UAV multispectral imagery using machine learning algorithms. <i>Computers and Electronics in Agriculture</i> , 2021, 189, 106414.	3.7	22
9	Long-term productivity of early season peach trees under different irrigation methods and postharvest deficit irrigation. <i>Agricultural Water Management</i> , 2020, 230, 105940.	2.4	11
10	A Decade of Unmanned Aerial Systems in Irrigated Agriculture in the Western U.S.. <i>Applied Engineering in Agriculture</i> , 2020, 36, 423-436.	0.3	12
11	Droplet Size Distribution Characteristics of Aerial Nozzles by Bell206L4 Helicopter under Medium and Low Airflow Velocity Wind Tunnel Conditions and Field Verification Test. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2179.	1.3	6
12	Integration of spectroscopy and image for identifying fusarium damage in wheat kernels. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 236, 118344.	2.0	31
13	Fusion of Deep Convolution and Shallow Features to Recognize the Severity of Wheat Fusarium Head Blight. <i>Frontiers in Plant Science</i> , 2020, 11, 599886.	1.7	15
14	Performance Characterization of the UAV Chemical Application Based on CFD Simulation. <i>Agronomy</i> , 2019, 9, 308.	1.3	13
15	Maize Canopy Temperature Extracted From UAV Thermal and RGB Imagery and Its Application in Water Stress Monitoring. <i>Frontiers in Plant Science</i> , 2019, 10, 1270.	1.7	107
16	Estimating Above-Ground Biomass of Maize Using Features Derived from UAV-Based RGB Imagery. <i>Remote Sensing</i> , 2019, 11, 1261.	1.8	104
17	Detection of Helminthosporium Leaf Blotch Disease Based on UAV Imagery. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 558.	1.3	40
18	Mapping Maize Water Stress Based on UAV Multispectral Remote Sensing. <i>Remote Sensing</i> , 2019, 11, 605.	1.8	100

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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. <i>Field Crops Research</i> , 2019, 234, 119-128.	2.3	24
20	Applications and Prospects of Agricultural Unmanned Aerial Vehicle Obstacle Avoidance Technology in China. <i>Sensors</i> , 2019, 19, 642.	2.1	49
21	Winter Wheat Mapping Based on Sentinel-2 Data in Heterogeneous Planting Conditions. <i>Remote Sensing</i> , 2019, 11, 2647.	1.8	13
22	Response of Maize Yield Components to Growth Stage-Based Deficit Irrigation. <i>Agronomy Journal</i> , 2019, 111, 3244-3252.	0.9	30
23	Water productivity under strategic growth stage-based deficit irrigation in maize. <i>Agricultural Water Management</i> , 2019, 212, 433-440.	2.4	122
24	Evaluation of droplet deposition and effect of variable-rate application by a manned helicopter with AG-NAV GueŸt system. <i>International Journal of Agricultural and Biological Engineering</i> , 2019, 12, 172-178.	0.3	8
25	Improved soil water deficit estimation through the integration of canopy temperature measurements into a soil water balance model. <i>Irrigation Science</i> , 2018, 36, 187-201.	1.3	14
26	Comparison of three crop water stress index models with sap flow measurements in maize. <i>Agricultural Water Management</i> , 2018, 203, 366-375.	2.4	59
27	Modeling Evapotranspiration and Crop Growth of Irrigated and Non-Irrigated Corn in the Texas High Plains Using RZWQM. <i>Transactions of the ASABE</i> , 2018, 61, 1653-1666.	1.1	5
28	USDA-ARS Colorado maize growth and development, yield and water-use under strategic timing of irrigation, 2012-2013. <i>Data in Brief</i> , 2018, 21, 1227-1231.	0.5	0
29	Accurate Weed Mapping and Prescription Map Generation Based on Fully Convolutional Networks Using UAV Imagery. <i>Sensors</i> , 2018, 18, 3299.	2.1	37
30	Rain Water Deficit and Irrigation Demand of Major Row Crops in the Mississippi Delta. <i>Transactions of the ASABE</i> , 2018, 61, 927-935.	1.1	23
31	Drift and deposition of pesticide applied by UAV on pineapple plants under different meteorological conditions. <i>International Journal of Agricultural and Biological Engineering</i> , 2018, 11, 5-12.	0.3	35
32	Coordinated decline in photosynthesis and hydraulic conductance during drought stress in <i>Zea mays</i> . <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2017, 227, 1-9.	0.6	49
33	Biophysical response of young pomegranate trees to surface and sub-surface drip irrigation and deficit irrigation. <i>Irrigation Science</i> , 2017, 35, 425-435.	1.3	41
34	Influence of Irrigation Scheduling Using Thermometry on Peach Tree Water Status and Yield under Different Irrigation Systems. <i>Agronomy</i> , 2017, 7, 12.	1.3	11
35	Estimating maize water stress by standard deviation of canopy temperature in thermal imagery. <i>Agricultural Water Management</i> , 2016, 177, 400-409.	2.4	55
36	Soil Microbial Community Composition in a Peach Orchard Under Different Irrigation Methods and Postharvest Deficit Irrigation. <i>Soil Science</i> , 2016, 181, 208-215.	0.9	7

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37	Satellite-based crop coefficient and regional water use estimates for Hawaiian sugarcane. <i>Field Crops Research</i> , 2015, 180, 143-154.	2.3	37
38	Monitoring Nitrogen Status on Crop Canopy Using Neural Network-Based Multisensor Fusion. <i>Sensor Letters</i> , 2014, 12, 692-699.	0.4	0
39	Fusion of remotely sensed data from airborne and ground-based sensors to enhance detection of cotton plants. <i>Computers and Electronics in Agriculture</i> , 2013, 93, 55-59.	3.7	23
40	Management of Postharvest Deficit Irrigation of Peach Trees Using Infrared Canopy Temperature. <i>Vadose Zone Journal</i> , 2013, 12, 1-11.	1.3	7
41	Current status and future directions of precision aerial application for site-specific crop management in the USA. <i>Computers and Electronics in Agriculture</i> , 2010, 74, 34-38.	3.7	80