

Huihui Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2458648/publications.pdf>

Version: 2024-02-01

77
papers

2,035
citations

257450

24
h-index

265206

42
g-index

81
all docs

81
docs citations

81
times ranked

2178
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissolution Engineering of Platinum Alloy Counter Electrodes in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11448-11452.	13.8	168
2	Water productivity under strategic growth stage-based deficit irrigation in maize. <i>Agricultural Water Management</i> , 2019, 212, 433-440.	5.6	122
3	Toxic effects of heavy metal Cd and Zn on chlorophyll, carotenoid metabolism and photosynthetic function in tobacco leaves revealed by physiological and proteomics analysis. <i>Ecotoxicology and Environmental Safety</i> , 2020, 202, 110856.	6.0	117
4	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.	3.6	107
5	Estimating Above-Ground Biomass of Maize Using Features Derived from UAV-Based RGB Imagery. <i>Remote Sensing</i> , 2019, 11, 1261.	4.0	104
6	Mapping Maize Water Stress Based on UAV Multispectral Remote Sensing. <i>Remote Sensing</i> , 2019, 11, 605.	4.0	100
7	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.	7.7	80
8	Structure and properties of cellulose fibers from ionic liquids. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1047-1053.	2.6	68
9	Comparison of three crop water stress index models with sap flow measurements in maize. <i>Agricultural Water Management</i> , 2018, 203, 366-375.	5.6	59
10	Estimating maize water stress by standard deviation of canopy temperature in thermal imagery. <i>Agricultural Water Management</i> , 2016, 177, 400-409.	5.6	55
11	Influence of alkali treatment on flax fiber for use as reinforcements in polylactide stereocomplex composites. <i>Polymer Engineering and Science</i> , 2015, 55, 2553-2558.	3.1	53
12	Coordinated decline in photosynthesis and hydraulic conductance during drought stress in Zea mays. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2017, 227, 1-9.	1.2	49
13	Applications and Prospects of Agricultural Unmanned Aerial Vehicle Obstacle Avoidance Technology in China. <i>Sensors</i> , 2019, 19, 642.	3.8	49
14	Biophysical response of young pomegranate trees to surface and sub-surface drip irrigation and deficit irrigation. <i>Irrigation Science</i> , 2017, 35, 425-435.	2.8	41
15	Detection of Helminthosporium Leaf Blotch Disease Based on UAV Imagery. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 558.	2.5	40
16	Antibacterial modification of Lyocell fiber: A review. <i>Carbohydrate Polymers</i> , 2020, 250, 116932.	10.2	38
17	Satellite-based crop coefficient and regional water use estimates for Hawaiian sugarcane. <i>Field Crops Research</i> , 2015, 180, 143-154.	5.1	37
18	Accurate Weed Mapping and Prescription Map Generation Based on Fully Convolutional Networks Using UAV Imagery. <i>Sensors</i> , 2018, 18, 3299.	3.8	37

#	ARTICLE	IF	CITATIONS
19	Behavioural oscillations in visual orientation discrimination reveal distinct modulation rates for both sensitivity and response bias. <i>Scientific Reports</i> , 2019, 9, 1115.	3.3	36
20	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.	0.6	35
21	Simultaneous determination of carcinoembryonic antigen and α -fetoprotein using an ITO immunoelectrode modified with gold nanoparticles and mesoporous silica. <i>Mikrochimica Acta</i> , 2015, 182, 719-726.	5.0	30
22	Response of Maize Yield Components to Growth Stage-Based Deficit Irrigation. <i>Agronomy Journal</i> , 2019, 111, 3244-3252.	1.8	30
23	Nano-carbon black filled Lyocell fiber as a precursor for carbon fiber. <i>Journal of Applied Polymer Science</i> , 2006, 99, 65-74.	2.6	28
24	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.	5.1	24
25	Comparison of the structures and properties of Lyocell fibers from high hemicellulose pulp and high α -D-glucan pulp. <i>Journal of Applied Polymer Science</i> , 2008, 107, 636-641.	2.6	23
26	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.	7.7	23
27	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
28	Properties and structure of MWNTs/cellulose composite fibers prepared by Lyocell process. <i>Journal of Applied Polymer Science</i> , 2012, 123, 956-961.	2.6	21
29	Estimation of the hydraulic parameters of leaky aquifers based on pumping tests and coupled simulation/optimization: verification using a layered aquifer in Tianjin, China. <i>Hydrogeology Journal</i> , 2019, 27, 3081-3095.	2.1	20
30	Estimation of hydraulic parameters from pumping tests in a multiaquifer system. <i>Underground Space (China)</i> , 2020, 5, 210-222.	7.5	20
31	The phytotoxicity of exposure to two polybrominated diphenyl ethers (BDE47 and BDE209) on photosynthesis and the response of the hormone signaling and ROS scavenging system in tobacco leaves. <i>Journal of Hazardous Materials</i> , 2022, 426, 128012.	12.4	20
32	Influence of cross-section shape on structure and properties of Lyocell fibers. <i>Cellulose</i> , 2021, 28, 1191-1201.	4.9	19
33	Evaluation of thermal resistance and mechanical properties of injected molded stereocomplex of poly(L-lactide) and poly(D,L-lactide) with various molecular weights. <i>Advances in Polymer Technology</i> , 2018, 37, 1674-1681.	1.7	16
34	Spatial and Temporal Downscaling of TRMM Precipitation with Novel Algorithms. <i>Journal of Hydrometeorology</i> , 2020, 21, 1259-1278.	1.9	16
35	Sequence structure organizes items in varied latent states of working memory neural network. <i>ELife</i> , 2021, 10, .	6.0	15
36	A new process for dissolution of cellulose in ionic liquids. <i>Polymer Engineering and Science</i> , 2012, 52, 1708-1714.	3.1	14

#	ARTICLE	IF	CITATIONS
37	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.	2.8	14
38	UV-excitable fluorescent poly(lactic acid) fibers. <i>Polymer Engineering and Science</i> , 2016, 56, 373-379.	3.1	13
39	Performance Characterization of the UAV Chemical Application Based on CFD Simulation. <i>Agronomy</i> , 2019, 9, 308.	3.0	13
40	Winter Wheat Mapping Based on Sentinel-2 Data in Heterogeneous Planting Conditions. <i>Remote Sensing</i> , 2019, 11, 2647.	4.0	13
41	Effects of Fiber Dimension and Its Distribution on the Properties of Lyocell and Ramie Fibers Reinforced Polylactide Composites. <i>Fibers and Polymers</i> , 2019, 20, 1726-1732.	2.1	12
42	Prediction of molecular weight distribution of cellulose by using the rheological method. <i>Journal of Applied Polymer Science</i> , 2004, 94, 598-603.	2.6	11
43	Detection of hidden drugs with a molecularly imprinted electrochemiluminescence sensor. <i>Analytical Methods</i> , 2013, 5, 6064.	2.7	11
44	Flax fiber-reinforced polylactide stereocomplex composites with enhanced heat resistance and mechanical properties. <i>Polymer Composites</i> , 2017, 38, 472-478.	4.6	11
45	Influence of Irrigation Scheduling Using Thermometry on Peach Tree Water Status and Yield under Different Irrigation Systems. <i>Agronomy</i> , 2017, 7, 12.	3.0	11
46	AMFR drives allergic asthma development by promoting alveolar macrophage-derived GM-CSF production. <i>Journal of Experimental Medicine</i> , 2022, 219, .	8.5	10
47	Effect of heat treatment on the structure and properties of Lyocell fibers. <i>Journal of Applied Polymer Science</i> , 2006, 101, 1738-1743.	2.6	8
48	Semi-empirical prediction method for monthly precipitation prediction based on environmental factors and comparison with stochastic and machine learning models. <i>Hydrological Sciences Journal</i> , 2020, 65, 1928-1942.	2.6	8
49	Setting the Flow Accumulation Threshold Based on Environmental and Morphologic Features to Extract River Networks from Digital Elevation Models. <i>ISPRS International Journal of Geo-Information</i> , 2021, 10, 186.	2.9	8
50	Modeling maize production under growth stage-based deficit irrigation management with RZWQM2. <i>Agricultural Water Management</i> , 2021, 248, 106767.	5.6	8
51	Evaluation of droplet deposition and effect of variable-rate application by a manned helicopter with AG-NAV Guéŷ† system. <i>International Journal of Agricultural and Biological Engineering</i> , 2019, 12, 172-178.	0.6	8
52	Management of Postharvest Deficit Irrigation of Peach Trees Using Infrared Canopy Temperature. <i>Vadose Zone Journal</i> , 2013, 12, 1-11.	2.2	7
53	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
54	A Fixed-Threshold Method for Estimating Fractional Vegetation Cover of Maize under Different Levels of Water Stress. <i>Remote Sensing</i> , 2021, 13, 1009.	4.0	7

#	ARTICLE	IF	CITATIONS
55	Preparation and properties of dual-wavelength excitable fluorescent Lyocell fibers and their applications in papermaking. <i>Carbohydrate Polymers</i> , 2021, 261, 117861.	10.2	7
56	Long-term simulation of growth stage-based irrigation scheduling in maize under various water constraints in Colorado, USA. <i>Frontiers of Agricultural Science and Engineering</i> , 2017, 4, 172.	1.4	7
57	Study on the melt-spinnability of poly(L-lactic acid). <i>Polymer Engineering and Science</i> , 2009, 49, 2315-2319.	3.1	6
58	The Application of the Analytic Hierarchy Process and a New Correlation Algorithm to Urban Construction and Supervision Using Multi-Source Government Data in Tianjin. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 50.	2.9	6
59	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.	2.5	6
60	Identifying the fouling behavior of forward osmosis membranes exposed to different inorganic components with high ionic strength. <i>Environmental Science and Pollution Research</i> , 2021, 28, 46303-46318.	5.3	6
61	Influences of stabilizers on lyocell spinning dope and fiber properties. <i>Polymer Testing</i> , 2021, 99, 107228.	4.8	6
62	Structure and properties of flax vs. lyocell fiber-reinforced polylactide stereocomplex composites. <i>Cellulose</i> , 2021, 28, 9297-9308.	4.9	6
63	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
64	Effect of interfacial modification on the thermo-mechanical properties of flax reinforced polylactide stereocomplex composites. <i>Journal of Polymer Engineering</i> , 2020, 40, 403-408.	1.4	5
65	Dual-wavelength fluorescent anti-counterfeiting fibers with skin-core structure. <i>Journal of Polymer Engineering</i> , 2020, 40, 143-151.	1.4	4
66	Flame-retardant treatment of Lyocell fibers and effects on various fiber properties. <i>Fire and Materials</i> , 2020, 44, 1-11.	2.0	4
67	Direct Preparation of High Thermal Stable PLA-Based Nanocomposite via Extra-Low Loading of In Situ Exfoliated Ultrathin MWW Zeolite Nanosheets. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000406.	3.6	3
68	Preparation and Characterization of Sodium Alginate and Polyquaternium-10 Hollow Microcapsules by a Layer-by-Layer Self-Assembly Technique. <i>ChemistrySelect</i> , 2020, 5, 13295-13299.	1.5	3
69	Ground-based spectral reflectance measurements for evaluating the efficacy of aerially-applied glyphosate treatments. <i>Biosystems Engineering</i> , 2010, 107, 10-15.	4.3	2
70	Evaluation of multispectral unmanned aerial systems for irrigation management. <i>Remote Sensing</i> , 2018, 10, 1-12.		2
71	Type 1 T Helper Cell-Based Molecular Subtypes and Signature Are Associated with Clinical Outcome in Pancreatic Ductal Adenocarcinoma. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 839893.	3.7	2
72	Sample-Specific Perturbation of Gene Interactions Identifies Pancreatic Cancer Subtypes. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4792.	4.1	2

#	ARTICLE	IF	CITATIONS
73	Spatial Analysis of Hyperspectral Vegetation Index. , 2009, , .		1
74	Quantification of N-methylmorpholine-N-oxide and its main degradation products by nuclear magnetic resonance spectroscopy. Spectroscopy Letters, 2021, 54, 43-50.	1.0	1
75	Autocrine motility factor receptor as a therapeutic target for asthma: <i>comments on “AMFR drives allergic asthma development by promoting alveolar macrophage-derived GM-CSF production”</i>. Journal of Molecular Cell Biology, 2022, 14, .	3.3	1
76	USDA-ARS Colorado maize growth and development, yield and water-use under strategic timing of irrigation, 2012“2013. Data in Brief, 2018, 21, 1227-1231.	1.0	0
77	Monitoring Nitrogen Status on Crop Canopy Using Neural Network-Based Multisensor Fusion. Sensor Letters, 2014, 12, 692-699.	0.4	0