

Zhenhai Li

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

3,820
citations

126708

33
h-index

128067

60
g-index

82
all docs

82
docs citations

82
times ranked

3128
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial heterogeneity of county-level grain protein content in winter wheat in the Huang-Huai-Hai region of China. <i>European Journal of Agronomy</i> , 2022, 134, 126466.	1.9	4
2	An explainable XGBoost model improved by SMOTE-ENN technique for maize lodging detection based on multi-source unmanned aerial vehicle images. <i>Computers and Electronics in Agriculture</i> , 2022, 194, 106804.	3.7	28
3	Comparison and transferability of thermal, temporal and phenological-based in-season predictions of above-ground biomass in wheat crops from proximal crop reflectance data. <i>Remote Sensing of Environment</i> , 2022, 273, 112967.	4.6	41
4	Leaf pigment retrieval using the PROSAIL model: Influence of uncertainty in prior canopy-structure information. <i>Crop Journal</i> , 2022, 10, 1251-1263.	2.3	11
5	Remote-sensing estimation of potato above-ground biomass based on spectral and spatial features extracted from high-definition digital camera images. <i>Computers and Electronics in Agriculture</i> , 2022, 198, 107089.	3.7	41
6	High-Throughput Estimation of Crop Traits: A Review of Ground and Aerial Phenotyping Platforms. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2021, 9, 200-231.	4.9	141
7	Mapping winter-wheat biomass and grain yield based on a crop model and UAV remote sensing. <i>International Journal of Remote Sensing</i> , 2021, 42, 1577-1601.	1.3	27
8	Hyperspectral Estimation of Apple Canopy Chlorophyll Content Using an Ensemble Learning Approach. <i>Applied Engineering in Agriculture</i> , 2021, 37, 505-511.	0.3	4
9	Estimating Leaf Nitrogen Content in Corn Based on Information Fusion of Multiple-Sensor Imagery from UAV. <i>Remote Sensing</i> , 2021, 13, 340.	1.8	32
10	An overview of crop nitrogen status assessment using hyperspectral remote sensing: Current status and perspectives. <i>European Journal of Agronomy</i> , 2021, 124, 126241.	1.9	69
11	Sino-EU Earth Observation Data to Support the Monitoring and Management of Agricultural Resources. <i>Remote Sensing</i> , 2021, 13, 2889.	1.8	6
12	Comparison of Machine-Learning and CASA Models for Predicting Apple Fruit Yields from Time-Series Planet Imageries. <i>Remote Sensing</i> , 2021, 13, 3073.	1.8	14
13	A comprehensive yield evaluation indicator based on an improved fuzzy comprehensive evaluation method and hyperspectral data. <i>Field Crops Research</i> , 2021, 270, 108204.	2.3	32
14	Quantitative analysis and hyperspectral remote sensing of the nitrogen nutrition index in winter wheat. <i>International Journal of Remote Sensing</i> , 2020, 41, 858-881.	1.3	28
15	Deep neural network algorithm for estimating maize biomass based on simulated Sentinel 2A vegetation indices and leaf area index. <i>Crop Journal</i> , 2020, 8, 87-97.	2.3	79
16	Estimation of maize yield by assimilating biomass and canopy cover derived from hyperspectral data into the AquaCrop model. <i>Agricultural Water Management</i> , 2020, 227, 105846.	2.4	55
17	A nitrogen spectral response model and nitrogen estimation of summer maize during the entire growth period. <i>International Journal of Remote Sensing</i> , 2020, 41, 1867-1883.	1.3	2
18	A hierarchical interannual wheat yield and grain protein prediction model using spectral vegetative indices and meteorological data. <i>Field Crops Research</i> , 2020, 248, 107711.	2.3	40

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19	A Modified Critical Nitrogen Dilution Curve for Winter Wheat to Diagnose Nitrogen Status Under Different Nitrogen and Irrigation Rates. <i>Frontiers in Plant Science</i> , 2020, 11, 549636.	1.7	13
20	Narrowing Yield Gaps and Enhancing Nitrogen Utilization for Summer Maize (<i>Zea mays</i> L) by Combining the Effects of Varying Nitrogen Fertilizer Input and Planting Density in DSSAT Simulations. <i>Frontiers in Plant Science</i> , 2020, 11, 560466.	1.7	7
21	Winter Wheat Nitrogen Status Estimation Using UAV-Based RGB Imagery and Gaussian Processes Regression. <i>Remote Sensing</i> , 2020, 12, 3778.	1.8	46
22	Estimating the vertical distribution of chlorophyll in winter wheat based on multi-angle hyperspectral data. <i>Remote Sensing Letters</i> , 2020, 11, 1032-1041.	0.6	4
23	Simulation and Verification of Vertical Heterogeneity Spectral Response of Winter Wheat Based on the mSCOPE Model. <i>Sensors</i> , 2020, 20, 4570.	2.1	1
24	Multi-temporal yield pattern analysis method for deriving yield zones in crop production systems. <i>Precision Agriculture</i> , 2020, 21, 1263-1290.	3.1	13
25	Extracting apple tree crown information from remote imagery using deep learning. <i>Computers and Electronics in Agriculture</i> , 2020, 174, 105504.	3.7	55
26	Estimation of Crop Growth Parameters Using UAV-Based Hyperspectral Remote Sensing Data. <i>Sensors</i> , 2020, 20, 1296.	2.1	101
27	A Comparison of Moment-Independent and Variance-Based Global Sensitivity Analysis Approaches for Wheat Yield Estimation with the Aquacrop-OS Model. <i>Agronomy</i> , 2020, 10, 607.	1.3	9
28	Prediction of Wheat Grain Protein by Coupling Multisource Remote Sensing Imagery and ECMWF Data. <i>Remote Sensing</i> , 2020, 12, 1349.	1.8	22
29	Editorial for the Special Issue "Estimation of Crop Phenotyping Traits using Unmanned Ground Vehicle and Unmanned Aerial Vehicle Imagery". <i>Remote Sensing</i> , 2020, 12, 940.	1.8	7
30	Progress of hyperspectral data processing and modelling for cereal crop nitrogen monitoring. <i>Computers and Electronics in Agriculture</i> , 2020, 172, 105321.	3.7	26
31	Fuzzy Clustering of Maize Plant-Height Patterns Using Time Series of UAV Remote-Sensing Images and Variety Traits. <i>Frontiers in Plant Science</i> , 2019, 10, 926.	1.7	18
32	Monitoring of Nitrogen and Grain Protein Content in Winter Wheat Based on Sentinel-2A Data. <i>Remote Sensing</i> , 2019, 11, 1724.	1.8	33
33	Recommendations for Nitrogen Fertilizer in Winter wheat Based on Nitrogen Nutrition Index. , 2019, , .		1
34	Global sensitivity analysis of wheat grain yield and quality and the related process variables from the DSSAT-CERES model based on the extended Fourier Amplitude Sensitivity Test method. <i>Journal of Integrative Agriculture</i> , 2019, 18, 1547-1561.	1.7	20
35	Estimating total leaf nitrogen concentration in winter wheat by canopy hyperspectral data and nitrogen vertical distribution. <i>Journal of Integrative Agriculture</i> , 2019, 18, 1562-1570.	1.7	34
36	Estimation of Leaf Nitrogen Concentration of Winter Wheat Using UAV-Based RGB Imagery. <i>IFIP Advances in Information and Communication Technology</i> , 2019, , 139-153.	0.5	2

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37	Combining self-organizing maps and biplot analysis to preselect maize phenotypic components based on UAV high-throughput phenotyping platform. <i>Plant Methods</i> , 2019, 15, 57.	1.9	10
38	Effect of Leaf Occlusion on Leaf Area Index Inversion of Maize Using UAVâ€“LiDAR Data. <i>Remote Sensing</i> , 2019, 11, 1067.	1.8	31
39	Multi-LUTs method for canopy nitrogen density estimation in winter wheat by field and UAV hyperspectral. <i>Computers and Electronics in Agriculture</i> , 2019, 162, 174-182.	3.7	55
40	Modeling maize above-ground biomass based on machine learning approaches using UAV remote-sensing data. <i>Plant Methods</i> , 2019, 15, 10.	1.9	250
41	Predicting leaf chlorophyll content and its nonuniform vertical distribution of summer maize by using a radiation transfer model. <i>Journal of Applied Remote Sensing</i> , 2019, 13, 1.	0.6	6
42	A comparative review of the state and advancement of Site-Specific Crop Management in the UK and China. <i>Frontiers of Agricultural Science and Engineering</i> , 2019, 6, 116.	0.9	9
43	Estimation of maize above-ground biomass based on stem-leaf separation strategy integrated with LiDAR and optical remote sensing data. <i>PeerJ</i> , 2019, 7, e7593.	0.9	24
44	Monitoring of Winter Wheat Biomass Using UAV Hyperspectral Texture Features. <i>IFIP Advances in Information and Communication Technology</i> , 2019, , 241-250.	0.5	1
45	Estimation of water productivity in winter wheat using the AquaCrop model with field hyperspectral data. <i>Precision Agriculture</i> , 2018, 19, 1-17.	3.1	36
46	A review of data assimilation of remote sensing and crop models. <i>European Journal of Agronomy</i> , 2018, 92, 141-152.	1.9	325
47	Clustering Field-Based Maize Phenotyping of Plant-Height Growth and Canopy Spectral Dynamics Using a UAV Remote-Sensing Approach. <i>Frontiers in Plant Science</i> , 2018, 9, 1638.	1.7	76
48	Quantitative Identification of Maize Lodging-Causing Feature Factors Using Unmanned Aerial Vehicle Images and a Nomogram Computation. <i>Remote Sensing</i> , 2018, 10, 1528.	1.8	38
49	Remote Sensing of Leaf and Canopy Nitrogen Status in Winter Wheat (<i>Triticum aestivum</i> L.) Based on N-PROSAIL Model. <i>Remote Sensing</i> , 2018, 10, 1463.	1.8	38
50	Predicting Grain Protein Content in Winter Wheat Using Hyperspectral and Meteorological Factor. , 2018, , .		1
51	Estimating genetic parameters of DSSAT-CERES model with the GLUE method for winter wheat (<i>Triticum aestivum</i> L.) production. <i>Computers and Electronics in Agriculture</i> , 2018, 154, 213-221.	3.7	50
52	A Comparison of Regression Techniques for Estimation of Above-Ground Winter Wheat Biomass Using Near-Surface Spectroscopy. <i>Remote Sensing</i> , 2018, 10, 66.	1.8	130
53	Monitoring ratio of carbon to nitrogen (C/N) in wheat and barley leaves by using spectral slope features with branch-and-bound algorithm. <i>Scientific Reports</i> , 2018, 8, 10034.	1.6	13
54	Parameter sensitivity analysis of the AquaCrop model based on extended fourier amplitude sensitivity under different agro-meteorological conditions and application. <i>Field Crops Research</i> , 2018, 226, 1-15.	2.3	36

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55	A Comparison of Crop Parameters Estimation Using Images from UAV-Mounted Snapshot Hyperspectral Sensor and High-Definition Digital Camera. <i>Remote Sensing</i> , 2018, 10, 1138.	1.8	118
56	Winter wheat yield estimation based on multi-source medium resolution optical and radar imaging data and the AquaCrop model using the particle swarm optimization algorithm. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 126, 24-37.	4.9	108
57	Validation of two Huanjing-1A/B satellite-based FAO-56 models for estimating winter wheat crop evapotranspiration during mid-season. <i>Agricultural Water Management</i> , 2017, 189, 27-38.	2.4	12
58	Noise-Resistant Spectral Features for Retrieving Foliar Chemical Parameters. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 5369-5380.	2.3	2
59	Global sensitivity analysis of the AquaCrop model for winter wheat under different water treatments based on the extended Fourier amplitude sensitivity test. <i>Journal of Integrative Agriculture</i> , 2017, 16, 2444-2458.	1.7	33
60	Unmanned Aerial Vehicle Remote Sensing for Field-Based Crop Phenotyping: Current Status and Perspectives. <i>Frontiers in Plant Science</i> , 2017, 8, 1111.	1.7	448
61	Estimation of Winter Wheat Above-Ground Biomass Using Unmanned Aerial Vehicle-Based Snapshot Hyperspectral Sensor and Crop Height Improved Models. <i>Remote Sensing</i> , 2017, 9, 708.	1.8	236
62	Estimation of leaf nitrogen content of maize based on Akaike's information criterion in Beijing. , 2017, , .		0
63	Estimating Wheat Yield in China at the Field and District Scale from the Assimilation of Satellite Data into the Aquacrop and Simple Algorithm for Yield (SAFY) Models. <i>Remote Sensing</i> , 2017, 9, 509.	1.8	72
64	Estimation and Mapping of Winter Oilseed Rape LAI from High Spatial Resolution Satellite Data Based on a Hybrid Method. <i>Remote Sensing</i> , 2017, 9, 488.	1.8	42
65	Estimation of winter wheat canopy nitrogen density at different growth stages based on Multi-LUT approach. , 2017, , .		0
66	Estimation of Winter Wheat Biomass and Yield by Combining the AquaCrop Model and Field Hyperspectral Data. <i>Remote Sensing</i> , 2016, 8, 972.	1.8	71
67	Simulation of Winter Wheat Phenology in Beijing Area with DSSAT-CERES Model. <i>IFIP Advances in Information and Communication Technology</i> , 2016, , 259-268.	0.5	1
68	Combined Multi-Temporal Optical and Radar Parameters for Estimating LAI and Biomass in Winter Wheat Using HJ and RADARSAR-2 Data. <i>Remote Sensing</i> , 2015, 7, 13251-13272.	1.8	115
69	Assimilation of Two Variables Derived from Hyperspectral Data into the DSSAT-CERES Model for Grain Yield and Quality Estimation. <i>Remote Sensing</i> , 2015, 7, 12400-12418.	1.8	51
70	Estimating winter wheat (<i>Triticum aestivum</i>) LAI and leaf chlorophyll content from canopy reflectance data by integrating agronomic prior knowledge with the PROSAIL model. <i>International Journal of Remote Sensing</i> , 2015, 36, 2634-2653.	1.3	45
71	Leaf nitrogen spectral reflectance model of winter wheat (<i>Triticum aestivum</i>) based on PROSPECT: simulation and inversion. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 095976.	0.6	47
72	Estimation of leaf chlorophyll content in winter wheat using variable importance for projection (VIP) with hyperspectral data. , 2015, , .		3

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73	Estimating wheat yield and quality by coupling the DSSAT-CERES model and proximal remote sensing. <i>European Journal of Agronomy</i> , 2015, 71, 53-62.	1.9	42
74	Newly Combined Spectral Indices to Improve Estimation of Total Leaf Chlorophyll Content in Cotton. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 4589-4600.	2.3	32
75	Retrieval of LAI and leaf chlorophyll content from remote sensing data by agronomy mechanism knowledge to solve the ill-posed inverse problem. , 2014, , .		1
76	Assessment of the AquaCrop Model for Use in Simulation of Irrigated Winter Wheat Canopy Cover, Biomass, and Grain Yield in the North China Plain. <i>PLoS ONE</i> , 2014, 9, e86938.	1.1	59
77	Comparison of spectral indices and wavelet transform for estimating chlorophyll content of maize from hyperspectral reflectance. <i>Journal of Applied Remote Sensing</i> , 2013, 7, 073575.	0.6	42
78	Estimation of Leaf Water Content in Winter Wheat Using Grey Relational Analysisâ€“Partial Least Squares Modeling with Hyperspectral Data. <i>Agronomy Journal</i> , 2013, 105, 1385-1392.	0.9	43