Shichao Jin

List of Publications by Year
in descending order

24	952	471509 17	610901 24
papers	citations	h-index	g-index

25	25	25	747
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deep Learning: Individual Maize Segmentation From Terrestrial Lidar Data Using Faster R-CNN and Regional Growth Algorithms. Frontiers in Plant Science, 2018, 9, 866.	3.6	104
2	Stem–Leaf Segmentation and Phenotypic Trait Extraction of Individual Maize Using Terrestrial LiDAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1336-1346.	6.3	92
3	Evaluating maize phenotype dynamics under drought stress using terrestrial lidar. Plant Methods, 2019, 15, 11.	4.3	84
4	Lidar sheds new light on plant phenomics for plant breeding and management: Recent advances and future prospects. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 171, 202-223.	11.1	82
5	Lidar Boosts 3D Ecological Observations and Modelings: A Review and Perspective. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 232-257.	9.6	62
6	Separating the Structural Components of Maize for Field Phenotyping Using Terrestrial LiDAR Data and Deep Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2644-2658.	6.3	55
7	Application of deep learning in ecological resource research: Theories, methods, and challenges. Science China Earth Sciences, 2020, 63, 1457-1474.	5.2	53
8	Estimation of degraded grassland aboveground biomass using machine learning methods from terrestrial laser scanning data. Ecological Indicators, 2020, 108, 105747.	6.3	52
9	A global corrected SRTM DEM product for vegetated areas. Remote Sensing Letters, 2018, 9, 393-402.	1.4	36
10	The Influence of Vegetation Characteristics on Individual Tree Segmentation Methods with Airborne LiDAR Data. Remote Sensing, 2019, 11, 2880.	4.0	35
11	Non-destructive estimation of field maize biomass using terrestrial lidar: an evaluation from plot level to individual leaf level. Plant Methods, 2020, 16, 69.	4.3	33
12	The Development and Evaluation of a Backpack LiDAR System for Accurate and Efficient Forest Inventory. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1660-1664.	3.1	32
13	Loess Landslide Detection Using Object Detection Algorithms in Northwest China. Remote Sensing, 2022, 14, 1182.	4.0	31
14	Proximal and remote sensing in plant phenomics: 20 years of progress, challenges, and perspectives. Plant Communications, 2022, 3, 100344.	7.7	31
15	The Transferability of Random Forest in Canopy Height Estimation from Multi-Source Remote Sensing Data. Remote Sensing, 2018, 10, 1183.	4.0	29
16	Simultaneous Prediction of Wheat Yield and Grain Protein Content Using Multitask Deep Learning from Time-Series Proximal Sensing. Plant Phenomics, 2022, 2022, 9757948.	5.9	28
17	A Novel Framework to Automatically Fuse Multiplatform LiDAR Data in Forest Environments Based on Tree Locations. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2165-2177.	6.3	26
18	Large-scale field phenotyping using backpack LiDAR and CropQuant-3D to measure structural variation in wheat. Plant Physiology, 2021, 187, 716-738.	4.8	17

#	Article	IF	Citations
19	ADMorph: A 3D Digital Microfossil Morphology Dataset for Deep Learning. IEEE Access, 2020, 8, 148744-148756.	4.2	16
20	Canopy and Terrain Interactions Affecting Snowpack Spatial Patterns in the Sierra Nevada of California. Water Resources Research, 2019, 55, 8721-8739.	4.2	15
21	Large‐Scale Geographical Variations and Climatic Controls on Crown Architecture Traits. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005306.	3.0	13
22	Exploring Seasonal and Circadian Rhythms in Structural Traits of Field Maize from LiDAR Time Series. Plant Phenomics, 2021, 2021, 9895241.	5.9	10
23	A Framework for Land Use Scenes Classification Based on Landscape Photos. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 6124-6141.	4.9	9
24	A Novel Computational Framework for Precision Diagnosis and Subtype Discovery of Plant With Lesion. Frontiers in Plant Science, 2021, 12, 789630.	3.6	7