

Tianyu Hu

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,596
citations

331670

21
h-index

361022

35
g-index

35
all docs

35
docs citations

35
times ranked

1760
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial distribution of forest aboveground biomass in China: Estimation through combination of spaceborne lidar, optical imagery, and forest inventory data. <i>Remote Sensing of Environment</i> , 2016, 173, 187-199.	11.0	166
2	Mapping Global Forest Aboveground Biomass with Spaceborne LiDAR, Optical Imagery, and Forest Inventory Data. <i>Remote Sensing</i> , 2016, 8, 565.	4.0	108
3	An integrated UAV-borne lidar system for 3D habitat mapping in three forest ecosystems across China. <i>International Journal of Remote Sensing</i> , 2017, 38, 2954-2972.	2.9	106
4	Deep Learning: Individual Maize Segmentation From Terrestrial Lidar Data Using Faster R-CNN and Regional Growth Algorithms. <i>Frontiers in Plant Science</i> , 2018, 9, 866.	3.6	104
5	Soil carbon persistence governed by plant input and mineral protection at regional and global scales. <i>Ecology Letters</i> , 2021, 24, 1018-1028.	6.4	96
6	Stem-Leaf Segmentation and Phenotypic Trait Extraction of Individual Maize Using Terrestrial LiDAR Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 1336-1346.	6.3	92
7	Development and Performance Evaluation of a Very Low-Cost UAV-Lidar System for Forestry Applications. <i>Remote Sensing</i> , 2021, 13, 77.	4.0	86
8	Neural network guided interpolation for mapping canopy height of China's forests by integrating GEDI and ICESat-2 data. <i>Remote Sensing of Environment</i> , 2022, 269, 112844.	11.0	68
9	UAV-lidar aids automatic intelligent powerline inspection. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 130, 106987.	5.5	67
10	An updated Vegetation Map of China (1:1000000). <i>Science Bulletin</i> , 2020, 65, 1125-1136.	9.0	64
11	Lidar Boosts 3D Ecological Observations and Modelings: A Review and Perspective. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2021, 9, 232-257.	9.6	62
12	Separating the Structural Components of Maize for Field Phenotyping Using Terrestrial LiDAR Data and Deep Convolutional Neural Networks. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 2644-2658.	6.3	55
13	Estimation of degraded grassland aboveground biomass using machine learning methods from terrestrial laser scanning data. <i>Ecological Indicators</i> , 2020, 108, 105747.	6.3	52
14	Mapping the Global Mangrove Forest Aboveground Biomass Using Multisource Remote Sensing Data. <i>Remote Sensing</i> , 2020, 12, 1690.	4.0	48
15	A global corrected SRTM DEM product for vegetated areas. <i>Remote Sensing Letters</i> , 2018, 9, 393-402.	1.4	36
16	The Influence of Vegetation Characteristics on Individual Tree Segmentation Methods with Airborne LiDAR Data. <i>Remote Sensing</i> , 2019, 11, 2880.	4.0	35
17	A Point-Based Fully Convolutional Neural Network for Airborne LiDAR Ground Point Filtering in Forested Environments. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 3958-3974.	4.9	33
18	Non-destructive estimation of field maize biomass using terrestrial lidar: an evaluation from plot level to individual leaf level. <i>Plant Methods</i> , 2020, 16, 69.	4.3	33

#	ARTICLE	IF	CITATIONS
19	The Transferability of Random Forest in Canopy Height Estimation from Multi-Source Remote Sensing Data. <i>Remote Sensing</i> , 2018, 10, 1183.	4.0	29
20	Retrieval of tree branch architecture attributes from terrestrial laser scan data using a Laplacian algorithm. <i>Agricultural and Forest Meteorology</i> , 2020, 284, 107874.	4.8	29
21	A Novel Framework to Automatically Fuse Multiplatform LiDAR Data in Forest Environments Based on Tree Locations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 2165-2177.	6.3	26
22	Analysis of UAV lidar information loss and its influence on the estimation accuracy of structural and functional traits in a meadow steppe. <i>Ecological Indicators</i> , 2022, 135, 108515.	6.3	23
23	A Comparison of LiDAR Filtering Algorithms in Vegetated Mountain Areas. <i>Canadian Journal of Remote Sensing</i> , 2018, 44, 287-298.	2.4	21
24	A simple and integrated approach for fire severity assessment using bi-temporal airborne LiDAR data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 78, 25-38.	2.8	21
25	Forest fuel treatment detection using multi-temporal airborne lidar data and high-resolution aerial imagery: a case study in the Sierra Nevada Mountains, California. <i>International Journal of Remote Sensing</i> , 2016, 37, 3322-3345.	2.9	19
26	Retrieving 2-D Leaf Angle Distributions for Deciduous Trees From Terrestrial Laser Scanner Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 4945-4955.	6.3	19
27	Drought-modulated allometric patterns of trees in semi-arid forests. <i>Communications Biology</i> , 2020, 3, 405.	4.4	19
28	Global patterns of woody residence time and its influence on model simulation of aboveground biomass. <i>Global Biogeochemical Cycles</i> , 2017, 31, 821-835.	4.9	18
29	Evaluation of modeled global vegetation carbon dynamics: Analysis based on global carbon flux and above-ground biomass data. <i>Ecological Modelling</i> , 2017, 355, 84-96.	2.5	17
30	Large-scale Geographical Variations and Climatic Controls on Crown Architecture Traits. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005306.	3.0	13
31	From canopy complementarity to asymmetric competition: The negative relationship between structural diversity and productivity during succession. <i>Journal of Ecology</i> , 2022, 110, 457-465.	4.0	10
32	An Object-Based Strategy for Improving the Accuracy of Spatiotemporal Satellite Imagery Fusion for Vegetation-Mapping Applications. <i>Remote Sensing</i> , 2019, 11, 2927.	4.0	9
33	The influence of meteorology and phenology on net ecosystem exchange in an eastern Siberian boreal larch forest. <i>Journal of Plant Ecology</i> , 2016, 9, 520-530.	2.3	7
34	Human-climate Coupled Changes in Vegetation Community Complexity of China Since 1980s. <i>Earth's Future</i> , 2022, 10, .	6.3	4
35	The Shift from Energy to Water Limitation in Local Canopy Height from Temperate to Tropical Forests in China. <i>Forests</i> , 2022, 13, 639.	2.1	1