Xi Zhu

List of Publications by Year
in descending order

29	1,960	394421	501196
papers	citations	19	28
		h-index	g-index

29	29	29	3383
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Environmental science: Agree on biodiversity metrics to track from space. Nature, 2015, 523, 403-405.	27.8	329
2	A Review: Individual Tree Species Classification Using Integrated Airborne LiDAR and Optical Imagery with a Focus on the Urban Environment. Forests, 2019, 10, 1.	2.1	251
3	Framing the concept of satellite remote sensing essential biodiversity variables: challenges and future directions. Remote Sensing in Ecology and Conservation, 2016, 2, 122-131.	4.3	243
4	Mapping spatio-temporal variation of grassland quantity and quality using MERIS data and the PROSAIL model. Remote Sensing of Environment, 2012, 121, 415-425.	11.0	100
5	Important LiDAR metrics for discriminating forest tree species in Central Europe. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 137, 163-174.	11.1	97
6	Applicability of the PROSPECT model for estimating protein and cellulose + lignin in fresh leaves. Remote Sensing of Environment, 2015, 168, 205-218.	11.0	93
7	A Novel Approach for the Detection of Standing Tree Stems from Plot-Level Terrestrial Laser Scanning Data. Remote Sensing, 2019, 11, 211.	4.0	78
8	Improving leaf area index (LAI) estimation by correcting for clumping and woody effects using terrestrial laser scanning. Agricultural and Forest Meteorology, 2018, 263, 276-286.	4.8	70
9	Mapping forest canopy nitrogen content by inversion of coupled leaf-canopy radiative transfer models from airborne hyperspectral imagery. Agricultural and Forest Meteorology, 2018, 253-254, 247-260.	4.8	67
10	Vegetation Indices for Mapping Canopy Foliar Nitrogen in a Mixed Temperate Forest. Remote Sensing, 2016, 8, 491.	4.0	63
11	Tree species classification using plant functional traits from LiDAR and hyperspectral data. International Journal of Applied Earth Observation and Geoinformation, 2018, 73, 207-219.	2.8	63
12	Foliar and woody materials discriminated using terrestrial LiDAR in a mixed natural forest. International Journal of Applied Earth Observation and Geoinformation, 2018, 64, 43-50.	2.8	61
13	3D leaf water content mapping using terrestrial laser scanner backscatter intensity with radiometric correction. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 110, 14-23.	11.1	60
14	Mapping leaf chlorophyll content from Sentinel-2 and RapidEye data in spruce stands using the invertible forest reflectance model. International Journal of Applied Earth Observation and Geoinformation, 2019, 79, 58-70.	2.8	57
15	Large off-nadir scan angle of airborne LiDAR can severely affect the estimates of forest structure metrics. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 136, 13-25.	11.1	52
16	Variation of leaf angle distribution quantified by terrestrial LiDAR in natural European beech forest. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 148, 208-220.	11.1	49
17	Canopy leaf water content estimated using terrestrial LiDAR. Agricultural and Forest Meteorology, 2017, 232, 152-162.	4.8	46
18	Canopy foliar nitrogen retrieved from airborne hyperspectral imagery by correcting for canopy structure effects. International Journal of Applied Earth Observation and Geoinformation, 2017, 54, 84-94.	2.8	35

#	Article	IF	Citations
19	Impact of Vertical Canopy Position on Leaf Spectral Properties and Traits across Multiple Species. Remote Sensing, 2018, 10, 346.	4.0	35
20	A voxel matching method for effective leaf area index estimation in temperate deciduous forests from leaf-on and leaf-off airborne LiDAR data. Remote Sensing of Environment, 2020, 240, 111696.	11.0	20
21	Improving LiDAR-based tree species mapping in Central European mixed forests using multi-temporal digital aerial colour-infrared photographs. International Journal of Applied Earth Observation and Geoinformation, 2020, 84, 101970.	2.8	18
22	Estimation of forest leaf water content through inversion of a radiative transfer model from LiDAR and hyperspectral data. International Journal of Applied Earth Observation and Geoinformation, 2019, 74, 120-129.	2.8	17
23	Significant effect of topographic normalization of airborne LiDAR data on the retrieval of plant area index profile in mountainous forests. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 132, 77-87.	11.1	15
24	A novel and efficient method for wood–leaf separation from terrestrial laser scanning point clouds at the forest plot level. Methods in Ecology and Evolution, 2021, 12, 2473-2486.	5.2	14
25	Comparison of terrestrial LiDAR and digital hemispherical photography for estimating leaf angle distribution in European broadleaf beech forests. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 158, 76-89.	11.1	13
26	Comparative Evaluation of Algorithms for Leaf Area Index Estimation from Digital Hemispherical Photography through Virtual Forests. Remote Sensing, 2021, 13, 3325.	4.0	6
27	Mapping individual silver fir trees using hyperspectral and LiDAR data in a Central European mixed forest. International Journal of Applied Earth Observation and Geoinformation, 2021, 98, 102311.	2.8	4
28	A laboratory for conceiving Essential Biodiversity Variables (EBVs)—The 'Data pool initiative for the Bohemian Forest Ecosystem'. Methods in Ecology and Evolution, 2021, 12, 2073-2083.	5.2	4
29	Measuring Leaf Angle Distribution Using Terrestrial Laser Scanning in a European Beech Forest. , 2018, , .		0