

# Xi Zhu

## List of Publications by Year in descending order

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29  
papers

1,960  
citations

394421

19  
h-index

501196

28  
g-index

29  
all docs

29  
docs citations

29  
times ranked

3383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping individual silver fir trees using hyperspectral and LiDAR data in a Central European mixed forest. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 98, 102311.	2.8	4
2	Comparative Evaluation of Algorithms for Leaf Area Index Estimation from Digital Hemispherical Photography through Virtual Forests. <i>Remote Sensing</i> , 2021, 13, 3325.	4.0	6
3	A laboratory for conceiving Essential Biodiversity Variables (EBVs)â€”The â€”Data pool initiative for the Bohemian Forest Ecosystemâ€™. <i>Methods in Ecology and Evolution</i> , 2021, 12, 2073-2083.	5.2	4
4	A novel and efficient method for woodâ€”leaf separation from terrestrial laser scanning point clouds at the forest plot level. <i>Methods in Ecology and Evolution</i> , 2021, 12, 2473-2486.	5.2	14
5	Improving LiDAR-based tree species mapping in Central European mixed forests using multi-temporal digital aerial colour-infrared photographs. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 84, 101970.	2.8	18
6	A voxel matching method for effective leaf area index estimation in temperate deciduous forests from leaf-on and leaf-off airborne LiDAR data. <i>Remote Sensing of Environment</i> , 2020, 240, 111696.	11.0	20
7	Comparison of terrestrial LiDAR and digital hemispherical photography for estimating leaf angle distribution in European broadleaf beech forests. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 158, 76-89.	11.1	13
8	A Novel Approach for the Detection of Standing Tree Stems from Plot-Level Terrestrial Laser Scanning Data. <i>Remote Sensing</i> , 2019, 11, 211.	4.0	78
9	Variation of leaf angle distribution quantified by terrestrial LiDAR in natural European beech forest. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 148, 208-220.	11.1	49
10	Mapping leaf chlorophyll content from Sentinel-2 and RapidEye data in spruce stands using the invertible forest reflectance model. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 79, 58-70.	2.8	57
11	A Review: Individual Tree Species Classification Using Integrated Airborne LiDAR and Optical Imagery with a Focus on the Urban Environment. <i>Forests</i> , 2019, 10, 1.	2.1	251
12	Estimation of forest leaf water content through inversion of a radiative transfer model from LiDAR and hyperspectral data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 74, 120-129.	2.8	17
13	Mapping forest canopy nitrogen content by inversion of coupled leaf-canopy radiative transfer models from airborne hyperspectral imagery. <i>Agricultural and Forest Meteorology</i> , 2018, 253-254, 247-260.	4.8	67
14	Important LiDAR metrics for discriminating forest tree species in Central Europe. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 137, 163-174.	11.1	97
15	Large off-nadir scan angle of airborne LiDAR can severely affect the estimates of forest structure metrics. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 136, 13-25.	11.1	52
16	Foliar and woody materials discriminated using terrestrial LiDAR in a mixed natural forest. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 64, 43-50.	2.8	61
17	Measuring Leaf Angle Distribution Using Terrestrial Laser Scanning in a European Beech Forest. , 2018, , ,		0
18	Improving leaf area index (LAI) estimation by correcting for clumping and woody effects using terrestrial laser scanning. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 276-286.	4.8	70

#	ARTICLE	IF	CITATIONS
19	Tree species classification using plant functional traits from LiDAR and hyperspectral data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 73, 207-219.	2.8	63
20	Impact of Vertical Canopy Position on Leaf Spectral Properties and Traits across Multiple Species. <i>Remote Sensing</i> , 2018, 10, 346.	4.0	35
21	Significant effect of topographic normalization of airborne LiDAR data on the retrieval of plant area index profile in mountainous forests. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 132, 77-87.	11.1	15
22	Canopy leaf water content estimated using terrestrial LiDAR. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 152-162.	4.8	46
23	Canopy foliar nitrogen retrieved from airborne hyperspectral imagery by correcting for canopy structure effects. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2017, 54, 84-94.	2.8	35
24	Vegetation Indices for Mapping Canopy Foliar Nitrogen in a Mixed Temperate Forest. <i>Remote Sensing</i> , 2016, 8, 491.	4.0	63
25	Framing the concept of satellite remote sensing essential biodiversity variables: challenges and future directions. <i>Remote Sensing in Ecology and Conservation</i> , 2016, 2, 122-131.	4.3	243
26	Environmental science: Agree on biodiversity metrics to track from space. <i>Nature</i> , 2015, 523, 403-405.	27.8	329
27	3D leaf water content mapping using terrestrial laser scanner backscatter intensity with radiometric correction. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 110, 14-23.	11.1	60
28	Applicability of the PROSPECT model for estimating protein and cellulose + lignin in fresh leaves. <i>Remote Sensing of Environment</i> , 2015, 168, 205-218.	11.0	93
29	Mapping spatio-temporal variation of grassland quantity and quality using MERIS data and the PROSAIL model. <i>Remote Sensing of Environment</i> , 2012, 121, 415-425.	11.0	100