

# Qi Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

3,874  
citations

159585

30  
h-index

123424

61  
g-index

68  
all docs

68  
docs citations

68  
times ranked

4210  
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of remote sensing-based aboveground biomass estimation methods in forest ecosystems. <i>International Journal of Digital Earth</i> , 2016, 9, 63-105.	3.9	465
2	Isolating Individual Trees in a Savanna Woodland Using Small Footprint Lidar Data. <i>Photogrammetric Engineering and Remote Sensing</i> , 2006, 72, 923-932.	0.6	431
3	Filtering Airborne Laser Scanning Data with Morphological Methods. <i>Photogrammetric Engineering and Remote Sensing</i> , 2007, 73, 175-185.	0.6	233
4	Above ground biomass estimation in an African tropical forest with lidar and hyperspectral data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 89, 49-58.	11.1	208
5	Discrimination of tropical forest types, dominant species, and mapping of functional guilds by hyperspectral and simulated multispectral Sentinel-2 data. <i>Remote Sensing of Environment</i> , 2016, 176, 163-176.	11.0	145
6	Aboveground Forest Biomass Estimation with Landsat and LiDAR Data and Uncertainty Analysis of the Estimates. <i>International Journal of Forestry Research</i> , 2012, 2012, 1-16.	0.8	141
7	Estimating Basal Area and Stem Volume for Individual Trees from Lidar Data. <i>Photogrammetric Engineering and Remote Sensing</i> , 2007, 73, 1355-1365.	0.6	130
8	Comparative Analysis of Modeling Algorithms for Forest Aboveground Biomass Estimation in a Subtropical Region. <i>Remote Sensing</i> , 2018, 10, 627.	4.0	119
9	Retrieving vegetation height of forests and woodlands over mountainous areas in the Pacific Coast region using satellite laser altimetry. <i>Remote Sensing of Environment</i> , 2010, 114, 1610-1627.	11.0	117
10	Modeling energy and carbon fluxes in a heterogeneous oak woodland: A three-dimensional approach. <i>Agricultural and Forest Meteorology</i> , 2012, 152, 83-100.	4.8	112
11	Uncertainty of remotely sensed aboveground biomass over an African tropical forest: Propagating errors from trees to plots to pixels. <i>Remote Sensing of Environment</i> , 2015, 160, 134-143.	11.0	109
12	Estimation of Wheat LAI at Middle to High Levels Using Unmanned Aerial Vehicle Narrowband Multispectral Imagery. <i>Remote Sensing</i> , 2017, 9, 1304.	4.0	102
13	Integration of airborne lidar and vegetation types derived from aerial photography for mapping aboveground live biomass. <i>Remote Sensing of Environment</i> , 2012, 121, 108-117.	11.0	88
14	Quantifying the influences of various ecological factors on land surface temperature of urban forests. <i>Environmental Pollution</i> , 2016, 216, 519-529.	7.5	87
15	Physically based vertical vegetation structure retrieval from ICESat data: Validation using LVIS in White Mountain National Forest, New Hampshire, USA. <i>Remote Sensing of Environment</i> , 2011, 115, 2776-2785.	11.0	84
16	A Survey of Mobile Laser Scanning Applications and Key Techniques over Urban Areas. <i>Remote Sensing</i> , 2019, 11, 1540.	4.0	76
17	Modeling radiation and photosynthesis of a heterogeneous savanna woodland landscape with a hierarchy of model complexities. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1005-1020.	4.8	67
18	Forest aboveground biomass mapping and estimation across multiple spatial scales using model-based inference. <i>Remote Sensing of Environment</i> , 2016, 184, 350-360.	11.0	67

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19	Hybrid estimators for mean aboveground carbon per unit area. <i>Forest Ecology and Management</i> , 2016, 378, 44-56.	3.2	59
20	Biodiversity Mapping in a Tropical West African Forest with Airborne Hyperspectral Data. <i>PLoS ONE</i> , 2014, 9, e97910.	2.5	54
21	Supervised Classification of Power Lines from Airborne LiDAR Data in Urban Areas. <i>Remote Sensing</i> , 2017, 9, 771.	4.0	53
22	Potential of ALOS2 and NDVI to Estimate Forest Above-Ground Biomass, and Comparison with Lidar-Derived Estimates. <i>Remote Sensing</i> , 2017, 9, 18.	4.0	50
23	Assessment of terrain elevation derived from satellite laser altimetry over mountainous forest areas using airborne lidar data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2010, 65, 111-122.	11.1	49
24	Sea-level rise vulnerability mapping for adaptation decisions using LiDAR DEMs. <i>Progress in Physical Geography</i> , 2013, 37, 745-766.	3.2	43
25	Examining effective use of data sources and modeling algorithms for improving biomass estimation in a moist tropical forest of the Brazilian Amazon. <i>International Journal of Digital Earth</i> , 2017, 10, 996-1016.	3.9	43
26	Automatic variogram parameter extraction for textural classification of the panchromatic IKONOS imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 1106-1115.	6.3	40
27	Assessing vulnerability due to sea-level rise in Maui, Hawaiï using LiDAR remote sensing and GIS. <i>Climatic Change</i> , 2013, 116, 547-563.	3.6	40
28	Assessing components of the model-based mean square error estimator for remote sensing assisted forest applications. <i>Canadian Journal of Forest Research</i> , 2018, 48, 642-649.	1.7	40
29	Modeling aboveground tree woody biomass using national-scale allometric methods and airborne lidar. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 106, 95-106.	11.1	38
30	Above ground biomass and tree species richness estimation with airborne lidar in tropical Ghana forests. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 52, 371-379.	2.8	36
31	A new three-band spectral index for mitigating the saturation in the estimation of leaf area index in wheat. <i>International Journal of Remote Sensing</i> , 2017, 38, 3865-3885.	2.9	31
32	The shelf-life of airborne laser scanning data for enhancing forest inventory inferences. <i>Remote Sensing of Environment</i> , 2018, 206, 254-259.	11.0	31
33	Detection of wheat height using optimized multi-scan mode of LiDAR during the entire growth stages. <i>Computers and Electronics in Agriculture</i> , 2019, 165, 104959.	7.7	29
34	Estimating aboveground and organ biomass of plant canopies across the entire season of rice growth with terrestrial laser scanning. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 91, 102132.	2.8	28
35	Systematic Comparison of Power Line Classification Methods from ALS and MLS Point Cloud Data. <i>Remote Sensing</i> , 2018, 10, 1222.	4.0	25
36	Visibility analysis of oceanic blue space using digital elevation models. <i>Landscape and Urban Planning</i> , 2019, 181, 92-102.	7.5	25

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37	Modeling and Mapping Agroforestry Aboveground Biomass in the Brazilian Amazon Using Airborne Lidar Data. <i>Remote Sensing</i> , 2016, 8, 21.	4.0	24
38	Hyperspectral Estimation of Canopy Leaf Biomass Phenotype per Ground Area Using a Continuous Wavelet Analysis in Wheat. <i>Frontiers in Plant Science</i> , 2018, 9, 1360.	3.6	24
39	Influence of sun zenith angle on canopy clumping and the resulting impacts on photosynthesis. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108065.	4.8	24
40	Multivariate inference for forest inventories using auxiliary airborne laser scanning data. <i>Forest Ecology and Management</i> , 2017, 401, 295-303.	3.2	23
41	The effects of global positioning system receiver accuracy on airborne laser scanning-assisted estimates of aboveground biomass. <i>Remote Sensing of Environment</i> , 2018, 207, 42-49.	11.0	21
42	Incorporating uncertainty of future sea-level rise estimates into vulnerability assessment: A case study in Kahului, Maui. <i>Climatic Change</i> , 2013, 121, 635-647.	3.6	20
43	Individual and Interactive Influences of Anthropogenic and Ecological Factors on Forest PM2.5 Concentrations at an Urban Scale. <i>Remote Sensing</i> , 2018, 10, 521.	4.0	19
44	Improvement of the Edge-based Morphological (EM) method for lidar data filtering. <i>International Journal of Remote Sensing</i> , 2009, 30, 1069-1074.	2.9	18
45	A Forest Attribute Mapping Framework: A Pilot Study in a Northern Boreal Forest, Northwest Territories, Canada. <i>Remote Sensing</i> , 2018, 10, 1338.	4.0	18
46	Local validation of global biomass maps. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 83, 101931.	2.8	15
47	Assessing multi-decadal land-cover " land-use change in two wildlife protected areas in Tanzania using Landsat imagery. <i>PLoS ONE</i> , 2017, 12, e0185468.	2.5	15
48	Simulation of canopy CO2/H2O fluxes for a rubber ( <i>Hevea brasiliensis</i> ) plantation in central Cambodia: The effect of the regular spacing of planted trees. <i>Ecological Modelling</i> , 2013, 265, 124-135.	2.5	14
49	Using genetic algorithms to optimize k-Nearest Neighbors configurations for use with airborne laser scanning data. <i>Remote Sensing of Environment</i> , 2016, 184, 387-395.	11.0	14
50	A scalable cyberinfrastructure and cloud computing platform for forest aboveground biomass estimation based on the Google Earth Engine. <i>International Journal of Digital Earth</i> , 2019, 12, 995-1012.	3.9	14
51	Using a Finer Resolution Biomass Map to Assess the Accuracy of a Regional, Map-Based Estimate of Forest Biomass. <i>Surveys in Geophysics</i> , 2019, 40, 1001-1015.	4.6	14
52	An automatic method for counting wheat tiller number in the field with terrestrial LiDAR. <i>Plant Methods</i> , 2020, 16, 132.	4.3	13
53	Mapping Exposure to Flooding in Three Coastal Communities on the North Slope of Alaska Using Airborne LiDAR. <i>Coastal Management</i> , 2020, 48, 96-117.	2.0	12
54	A Hierarchical unsupervised method for power line classification from airborne LiDAR data. <i>International Journal of Digital Earth</i> , 2019, 12, 1406-1422.	3.9	11

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55	Evaluating satellite hyperspectral (Orbita) and multispectral (Landsat 8 and Sentinel-2) imagery for identifying cotton acreage. <i>International Journal of Remote Sensing</i> , 2021, 42, 4042-4063.	2.9	11
56	Optimizing nearest neighbour configurations for airborne laser scanning-assisted estimation of forest volume and biomass. <i>Forestry</i> , 2017, 90, 99-111.	2.3	9
57	Determining the Mechanisms that Influence the Surface Temperature of Urban Forest Canopies by Combining Remote Sensing Methods, Ground Observations, and Spatial Statistical Models. <i>Remote Sensing</i> , 2018, 10, 1814.	4.0	9
58	Synergistic Use of Satellite Laser Altimetry and Shuttle Radar Topography Mission DEM for Estimating Ground Elevation Over Mountainous Vegetated Areas. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 481-485.	3.1	7
59	From a drone's eye view: indicators of overtourism in a sea, sun, and sand destination. <i>Journal of Sustainable Tourism</i> , 2023, 31, 1538-1555.	9.2	7
60	Statewide mapping and estimation of vegetation aboveground biomass using airborne lidar. , 2016, , .		5
61	Estimation of forest aboveground biomass by using mixed-effects model. <i>International Journal of Remote Sensing</i> , 2021, 42, 8675-8690.	2.9	5
62	State of the State Tree: Historical and Modern Ecology of Kukui (Candlenut, <i>Aleurites Moluccanus</i> ) in Hawai'i. <i>Pacific Science</i> , 2021, 74, .	0.6	4
63	Improving Plot-Level Model of Forest Biomass: A Combined Approach Using Machine Learning with Spatial Statistics. <i>Forests</i> , 2021, 12, 1663.	2.1	4
64	Differentiation of <i>Acacia koa</i> forest stands across an elevation gradient in Hawai'i using fine-resolution remotely sensed imagery. <i>International Journal of Remote Sensing</i> , 2012, 33, 3492-3511.	2.9	3
65	Fine resolution remote sensing of species in terrestrial and coastal ecosystems. <i>International Journal of Remote Sensing</i> , 2018, 39, 5597-5599.	2.9	2
66	QuickBird image-based estimation of tree stand density using local maxima filtering method: A case study in a Beijing forest. <i>PLoS ONE</i> , 2018, 13, e0208256.	2.5	0
67	Preface of Special Issue on Laser Scanning. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2713.	2.5	0
68	Stand density extraction and analysis of plantations based on QuickBird and Worldview-2 images. <i>Journal of Applied Remote Sensing</i> , 2020, 14, 1.	1.3	0