Qi Chen

List of Publications by Year
in descending order

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	From a drone's eye view: indicators of overtourism in a sea, sun, and sand destination. Journal of Sustainable Tourism, 2023, 31, 1538-1555.	9.2	7
2	State of the State Tree: Historical and Modern Ecology of Kukui (Candlenut, Aleurites Moluccanus) in Hawai'i. Pacific Science, 2021, 74, .	0.6	4
3	Evaluating satellite hyperspectral (Orbita) and multispectral (Landsat 8 and Sentinel-2) imagery for identifying cotton acreage. International Journal of Remote Sensing, 2021, 42, 4042-4063.	2.9	11
4	Estimation of forest aboveground biomass by using mixed-effects model. International Journal of Remote Sensing, 2021, 42, 8675-8690.	2.9	5
5	Improving Plot-Level Model of Forest Biomass: A Combined Approach Using Machine Learning with Spatial Statistics. Forests, 2021, 12, 1663.	2.1	4
6	An automatic method for counting wheat tiller number in the field with terrestrial LiDAR. Plant Methods, 2020, 16, 132.	4.3	13
7	Estimating aboveground and organ biomass of plant canopies across the entire season of rice growth with terrestrial laser scanning. International Journal of Applied Earth Observation and Geoinformation, 2020, 91, 102132.	2.8	28
8	Influence of sun zenith angle on canopy clumping and the resulting impacts on photosynthesis. Agricultural and Forest Meteorology, 2020, 291, 108065.	4.8	24
9	Mapping Exposure to Flooding in Three Coastal Communities on the North Slope of Alaska Using Airborne LiDAR. Coastal Management, 2020, 48, 96-117.	2.0	12
10	Stand density extraction and analysis of plantations based on QuickBird and Worldview-2 images. Journal of Applied Remote Sensing, 2020, 14, 1.	1.3	0
11	A scalable cyberinfrastructure and cloud computing platform for forest aboveground biomass estimation based on the Google Earth Engine. International Journal of Digital Earth, 2019, 12, 995-1012.	3.9	14
12	A Hierarchical unsupervised method for power line classification from airborne LiDAR data. International Journal of Digital Earth, 2019, 12, 1406-1422.	3.9	11
13	Preface of Special Issue on Laser Scanning. Applied Sciences (Switzerland), 2019, 9, 2713.	2.5	0
14	A Survey of Mobile Laser Scanning Applications and Key Techniques over Urban Areas. Remote Sensing, 2019, 11, 1540.	4.0	76
15	Local validation of global biomass maps. International Journal of Applied Earth Observation and Geoinformation, 2019, 83, 101931.	2.8	15
16	Detection of wheat height using optimized multi-scan mode of LiDAR during the entire growth stages. Computers and Electronics in Agriculture, 2019, 165, 104959.	7.7	29
17	Using a Finer Resolution Biomass Map to Assess the Accuracy of a Regional, Map-Based Estimate of Forest Biomass. Surveys in Geophysics, 2019, 40, 1001-1015.	4.6	14
18	Visibility analysis of oceanic blue space using digital elevation models. Landscape and Urban Planning, 2019, 181, 92-102.	7.5	25

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19	The effects of global positioning system receiver accuracy on airborne laser scanning-assisted estimates of aboveground biomass. Remote Sensing of Environment, 2018, 207, 42-49.	11.0	21
20	Assessing components of the model-based mean square error estimator for remote sensing assisted forest applications. Canadian Journal of Forest Research, 2018, 48, 642-649.	1.7	40
21	The shelf-life of airborne laser scanning data for enhancing forest inventory inferences. Remote Sensing of Environment, 2018, 206, 254-259.	11.0	31
22	Determining the Mechanisms that Influence the Surface Temperature of Urban Forest Canopies by Combining Remote Sensing Methods, Ground Observations, and Spatial Statistical Models. Remote Sensing, 2018, 10, 1814.	4.0	9
23	QuickBird image-based estimation of tree stand density using local maxima filtering method: A case study in a Beijing forest. PLoS ONE, 2018, 13, e0208256.	2.5	0
24	A Forest Attribute Mapping Framework: A Pilot Study in a Northern Boreal Forest, Northwest Territories, Canada. Remote Sensing, 2018, 10, 1338.	4.0	18
25	Hyperspectral Estimation of Canopy Leaf Biomass Phenotype per Ground Area Using a Continuous Wavelet Analysis in Wheat. Frontiers in Plant Science, 2018, 9, 1360.	3.6	24
26	Systematic Comparison of Power Line Classification Methods from ALS and MLS Point Cloud Data. Remote Sensing, 2018, 10, 1222.	4.0	25
27	Fine resolution remote sensing of species in terrestrial and coastal ecosystems. International Journal of Remote Sensing, 2018, 39, 5597-5599.	2.9	2
28	Individual and Interactive Influences of Anthropogenic and Ecological Factors on Forest PM2.5 Concentrations at an Urban Scale. Remote Sensing, 2018, 10, 521.	4.0	19
29	Comparative Analysis of Modeling Algorithms for Forest Aboveground Biomass Estimation in a Subtropical Region. Remote Sensing, 2018, 10, 627.	4.0	119
30	A new three-band spectral index for mitigating the saturation in the estimation of leaf area index in wheat. International Journal of Remote Sensing, 2017, 38, 3865-3885.	2.9	31
31	Examining effective use of data sources and modeling algorithms for improving biomass estimation in a moist tropical forest of the Brazilian Amazon. International Journal of Digital Earth, 2017, 10, 996-1016.	3.9	43
32	Optimizing nearest neighbour configurations for airborne laser scanning-assisted estimation of forest volume and biomass. Forestry, 2017, 90, 99-111.	2.3	9
33	Multivariate inference for forest inventories using auxiliary airborne laser scanning data. Forest Ecology and Management, 2017, 401, 295-303.	3.2	23
34	Estimation of Wheat LAI at Middle to High Levels Using Unmanned Aerial Vehicle Narrowband Multispectral Imagery. Remote Sensing, 2017, 9, 1304.	4.0	102
35	Supervised Classification of Power Lines from Airborne LiDAR Data in Urban Areas. Remote Sensing, 2017, 9, 771.	4.0	53
36	Potential of ALOS2 and NDVI to Estimate Forest Above-Ground Biomass, and Comparison with Lidar-Derived Estimates. Remote Sensing, 2017, 9, 18.	4.0	50

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37	Assessing multi-decadal land-cover – land-use change in two wildlife protected areas in Tanzania using Landsat imagery. PLoS ONE, 2017, 12, e0185468.	2.5	15
38	Modeling and Mapping Agroforestry Aboveground Biomass in the Brazilian Amazon Using Airborne Lidar Data. Remote Sensing, 2016, 8, 21.	4.0	24
39	Using genetic algorithms to optimize k-Nearest Neighbors configurations for use with airborne laser scanning data. Remote Sensing of Environment, 2016, 184, 387-395.	11.0	14
40	Above ground biomass and tree species richness estimation with airborne lidar in tropical Ghana forests. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 371-379.	2.8	36
41	Hybrid estimators for mean aboveground carbon per unit area. Forest Ecology and Management, 2016, 378, 44-56.	3.2	59
42	Forest aboveground biomass mapping and estimation across multiple spatial scales using model-based inference. Remote Sensing of Environment, 2016, 184, 350-360.	11.0	67
43	Statewide mapping and estimation of vegetation aboveground biomass using airborne lidar. , 2016, , .		5
44	Quantifying the influences of various ecological factors on land surface temperature of urban forests. Environmental Pollution, 2016, 216, 519-529.	7.5	87
45	A survey of remote sensing-based aboveground biomass estimation methods in forest ecosystems. International Journal of Digital Earth, 2016, 9, 63-105.	3.9	465
46	Discrimination of tropical forest types, dominant species, and mapping of functional guilds by hyperspectral and simulated multispectral Sentinel-2 data. Remote Sensing of Environment, 2016, 176, 163-176.	11.0	145
47	Uncertainty of remotely sensed aboveground biomass over an African tropical forest: Propagating errors from trees to plots to pixels. Remote Sensing of Environment, 2015, 160, 134-143.	11.0	109
48	Modeling aboveground tree woody biomass using national-scale allometric methods and airborne lidar. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 106, 95-106.	11.1	38
49	Biodiversity Mapping in a Tropical West African Forest with Airborne Hyperspectral Data. PLoS ONE, 2014, 9, e97910.	2.5	54
50	Above ground biomass estimation in an African tropical forest with lidar and hyperspectral data. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 89, 49-58.	11.1	208
51	Sea-level rise vulnerability mapping for adaptation decisions using LiDAR DEMs. Progress in Physical Geography, 2013, 37, 745-766.	3.2	43
52	Incorporating uncertainty of future sea-level rise estimates into vulnerability assessment: A case study in Kahului, Maui. Climatic Change, 2013, 121, 635-647.	3.6	20
53	Synergistic Use of Satellite Laser Altimetry and Shuttle Radar Topography Mission DEM for Estimating Ground Elevation Over Mountainous Vegetated Areas. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 481-485.	3.1	7
54	Assessing vulnerability due to sea-level rise in Maui, Hawaiʻi using LiDAR remote sensing and GIS. Climatic Change, 2013, 116, 547-563.	3.6	40

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55	Simulation of canopy CO_2/H_2O fluxes for a rubber (Hevea brasiliensis) plantation in central Cambodia: The effect of the regular spacing of planted trees. Ecological Modelling, 2013, 265, 124-135.	2.5	14
56	Differentiation of *Acacia koa* forest stands across an elevation gradient in Hawaiʻi using fine-resolution remotely sensed imagery. International Journal of Remote Sensing, 2012, 33, 3492-3511.	2.9	3
57	Integration of airborne lidar and vegetation types derived from aerial photography for mapping aboveground live biomass. Remote Sensing of Environment, 2012, 121, 108-117.	11.0	88
58	Modeling energy and carbon fluxes in a heterogeneous oak woodland: A three-dimensional approach. Agricultural and Forest Meteorology, 2012, 152, 83-100.	4.8	112
59	Aboveground Forest Biomass Estimation with Landsat and LiDAR Data and Uncertainty Analysis of the Estimates. International Journal of Forestry Research, 2012, 2012, 1-16.	0.8	141
60	Physically based vertical vegetation structure retrieval from ICESat data: Validation using LVIS in White Mountain National Forest, New Hampshire, USA. Remote Sensing of Environment, 2011, 115, 2776-2785.	11.0	84
61	Retrieving vegetation height of forests and woodlands over mountainous areas in the Pacific Coast region using satellite laser altimetry. Remote Sensing of Environment, 2010, 114, 1610-1627.	11.0	117
62	Assessment of terrain elevation derived from satellite laser altimetry over mountainous forest areas using airborne lidar data. ISPRS Journal of Photogrammetry and Remote Sensing, 2010, 65, 111-122.	11.1	49
63	Improvement of the Edge-based Morphological (EM) method for lidar data filtering. International Journal of Remote Sensing, 2009, 30, 1069-1074.	2.9	18
64	Modeling radiation and photosynthesis of a heterogeneous savanna woodland landscape with a hierarchy of model complexities. Agricultural and Forest Meteorology, 2008, 148, 1005-1020.	4.8	67
65	Estimating Basal Area and Stem Volume for Individual Trees from Lidar Data. Photogrammetric Engineering and Remote Sensing, 2007, 73, 1355-1365.	0.6	130
66	Filtering Airborne Laser Scanning Data with Morphological Methods. Photogrammetric Engineering and Remote Sensing, 2007, 73, 175-185.	0.6	233
67	Isolating Individual Trees in a Savanna Woodland Using Small Footprint Lidar Data. Photogrammetric Engineering and Remote Sensing, 2006, 72, 923-932.	0.6	431
68	Automatic variogram parameter extraction for textural classification of the panchromatic IKONOS imagery. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 1106-1115.	6.3	40