

Guang-Xing Wang

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,655
citations

218381

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84
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docs citations

84
times ranked

2377
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.	1.6	465
2	Examining Spectral Reflectance Saturation in Landsat Imagery and Corresponding Solutions to Improve Forest Aboveground Biomass Estimation. <i>Remote Sensing</i> , 2016, 8, 469.	1.8	156
3	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.	0.2	141
4	Comparative Analysis of Modeling Algorithms for Forest Aboveground Biomass Estimation in a Subtropical Region. <i>Remote Sensing</i> , 2018, 10, 627.	1.8	119
5	A Regional Comparison of Factors Affecting Global Sorghum Production: The Case of North America, Asia and Africa's Sahel. <i>Sustainability</i> , 2019, 11, 2135.	1.6	98
6	Mapping Paddy Rice Using a Convolutional Neural Network (CNN) with Landsat 8 Datasets in the Dongting Lake Area, China. <i>Remote Sensing</i> , 2018, 10, 1840.	1.8	90
7	Deep Learning Segmentation and Classification for Urban Village Using a Worldview Satellite Image Based on U-Net. <i>Remote Sensing</i> , 2020, 12, 1574.	1.8	88
8	Forest aboveground biomass estimation in Zhejiang Province using the integration of Landsat TM and ALOS PALSAR data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 53, 1-15.	1.4	85
9	Phenology-based classification of vegetation cover types in Northeast China using MODIS NDVI and EVI time series. <i>International Journal of Remote Sensing</i> , 2015, 36, 489-512.	1.3	72
10	Mapping and spatial uncertainty analysis of forest vegetation carbon by combining national forest inventory data and satellite images. <i>Forest Ecology and Management</i> , 2009, 258, 1275-1283.	1.4	63
11	A generalized nonlinear mixed-effects height to crown base model for Mongolian oak in northeast China. <i>Forest Ecology and Management</i> , 2017, 384, 34-43.	1.4	61
12	Estimation Methods for Soil Mercury Content Using Hyperspectral Remote Sensing. <i>Sustainability</i> , 2018, 10, 2474.	1.6	46
13	Uncertainties of mapping aboveground forest carbon due to plot locations using national forest inventory plot and remotely sensed data. <i>Scandinavian Journal of Forest Research</i> , 2011, 26, 360-373.	0.5	44
14	Mapping and uncertainty of predictions based on multiple primary variables from joint co-simulation with Landsat TM image and polynomial regression. <i>Remote Sensing of Environment</i> , 2002, 83, 498-510.	4.6	42
15	Soil Organic Carbon and its Fractions in Relation to Degradation and Restoration of Wetlands on the Zoigã Plateau, China. <i>Wetlands</i> , 2014, 34, 235-241.	0.7	42
16	Comparison of seemingly unrelated regressions with error-in-variable models for developing a system of nonlinear additive biomass equations. <i>Trees - Structure and Function</i> , 2016, 30, 839-857.	0.9	42
17	Estimation of Soil Heavy Metal Content Using Hyperspectral Data. <i>Remote Sensing</i> , 2019, 11, 1464.	1.8	40
18	Prediction of Soil Nutrient Contents Using Visible and Near-Infrared Reflectance Spectroscopy. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 437.	1.4	40

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19	Mapping Forest Ecosystem Biomass Density for Xiangjiang River Basin by Combining Plot and Remote Sensing Data and Comparing Spatial Extrapolation Methods. <i>Remote Sensing</i> , 2017, 9, 241.	1.8	38
20	Improving Aboveground Biomass Estimation of <i>Pinus densata</i> Forests in Yunnan Using Landsat 8 Imagery by Incorporating Age Dummy Variable and Method Comparison. <i>Remote Sensing</i> , 2019, 11, 738.	1.8	37
21	Integrating a Hybrid Back Propagation Neural Network and Particle Swarm Optimization for Estimating Soil Heavy Metal Contents Using Hyperspectral Data. <i>Sustainability</i> , 2019, 11, 419.	1.6	35
22	Increasing the Accuracy of Mapping Urban Forest Carbon Density by Combining Spatial Modeling and Spectral Unmixing Analysis. <i>Remote Sensing</i> , 2015, 7, 15114-15139.	1.8	33
23	Development of a System of Compatible Individual Tree Diameter and Aboveground Biomass Prediction Models Using Error-In-Variable Regression and Airborne LiDAR Data. <i>Remote Sensing</i> , 2018, 10, 325.	1.8	30
24	A climate-sensitive aboveground biomass model for three larch species in northeastern and northern China. <i>Trees - Structure and Function</i> , 2017, 31, 557-573.	0.9	28
25	Optimizing kNN for Mapping Vegetation Cover of Arid and Semi-Arid Areas Using Landsat images. <i>Remote Sensing</i> , 2018, 10, 1248.	1.8	28
26	Prediction of soil properties using a hyperspectral remote sensing method. <i>Archives of Agronomy and Soil Science</i> , 2018, 64, 546-559.	1.3	27
27	Characterizing urban redevelopment process by quantifying thermal dynamic and landscape analysis. <i>Habitat International</i> , 2019, 86, 61-70.	2.3	26
28	Examining soil organic carbon distribution and dynamic change in a hickory plantation region with Landsat and ancillary data. <i>Catena</i> , 2018, 165, 576-589.	2.2	24
29	Estimating aboveground biomass of <i>Pinus densata</i> -dominated forests using Landsat time series and permanent sample plot data. <i>Journal of Forestry Research</i> , 2019, 30, 1689-1706.	1.7	24
30	Estimating the Growing Stem Volume of Coniferous Plantations Based on Random Forest Using an Optimized Variable Selection Method. <i>Sensors</i> , 2020, 20, 7248.	2.1	24
31	Multilevel Nonlinear Mixed-Effect Crown Ratio Models for Individual Trees of Mongolian Oak (<i>Quercus mongolica</i>) in Northeast China. <i>PLoS ONE</i> , 2015, 10, e0133294.	1.1	23
32	Estimation of Vegetation Productivity Using a Landsat 8 Time Series in a Heavily Urbanized Area, Central China. <i>Remote Sensing</i> , 2019, 11, 133.	1.8	23
33	A Modified KNN Method for Mapping the Leaf Area Index in Arid and Semi-Arid Areas of China. <i>Remote Sensing</i> , 2020, 12, 1884.	1.8	23
34	Estimating the Growing Stem Volume of Chinese Pine and Larch Plantations based on Fused Optical Data Using an Improved Variable Screening Method and Stacking Algorithm. <i>Remote Sensing</i> , 2020, 12, 871.	1.8	23
35	Spatial-variability-based algorithms for scaling-up spatial data and uncertainties. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 2004-2015.	2.7	21
36	The GA-BPNN-Based Evaluation of Cultivated Land Quality in the PSR Framework Using Gaofen-1 Satellite Data. <i>Sensors</i> , 2019, 19, 5127.	2.1	21

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37	Crop Growth Stage GPP-Driven Spectral Model for Evaluation of Cultivated Land Quality Using GA-BPNN. <i>Agriculture (Switzerland)</i> , 2020, 10, 318.	1.4	21
38	Generic linear mixed-effects individual-tree biomass models for <i>Pinus massoniana</i> in southern China. <i>Southern Forests</i> , 2014, 76, 47-56.	0.2	19
39	Prediction of Individual Tree Diameter Using a Nonlinear Mixed-Effects Modeling Approach and Airborne LiDAR Data. <i>Remote Sensing</i> , 2020, 12, 1066.	1.8	19
40	Can $\delta^{13}\text{C}$ abundance, water-soluble carbon, and light fraction carbon be potential indicators of soil organic carbon dynamics in Zoigã wetland?. <i>Catena</i> , 2014, 119, 21-27.	2.2	18
41	Comparison of methods toward multi-scale forest carbon mapping and spatial uncertainty analysis: combining national forest inventory plot data and landsat TM images. <i>European Journal of Forest Research</i> , 2015, 134, 125-137.	1.1	18
42	Estimation of net primary productivity of forests by modified CASA models and remotely sensed data. <i>International Journal of Remote Sensing</i> , 2018, 39, 1092-1116.	1.3	18
43	Mapping Growing Stem Volume of Chinese Fir Plantation Using a Saturation-based Multivariate Method and Quad-polarimetric SAR Images. <i>Remote Sensing</i> , 2019, 11, 1872.	1.8	18
44	Impacts of Plot Location Errors on Accuracy of Mapping and Scaling Up Aboveground Forest Carbon Using Sample Plot and Landsat TM Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 1483-1487.	1.4	17
45	Improvement of Forest Carbon Estimation by Integration of Regression Modeling and Spectral Unmixing of Landsat Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 2003-2007.	1.4	16
46	Optimal spatial resolution for collection of ground data and multi-sensor image mapping of a soil erosion cover factor. <i>Journal of Environmental Management</i> , 2008, 88, 1088-1098.	3.8	15
47	Landscape metrics and change analysis of a national wildlife refuge at different spatial resolutions. <i>International Journal of Remote Sensing</i> , 2014, 35, 3109-3134.	1.3	14
48	Combining stratification and up-scaling method-block cokriging with remote sensing imagery for sampling and mapping an erosion cover factor. <i>Ecological Informatics</i> , 2007, 2, 373-386.	2.3	13
49	Detection of gullies in Fort Riley military installation using LiDAR derived high resolution DEM. <i>Journal of Terramechanics</i> , 2018, 77, 15-22.	1.4	13
50	Improving Estimation of Forest Canopy Cover by Introducing Loss Ratio of Laser Pulses Using Airborne LiDAR. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 567-585.	2.7	13
51	Prediction of Individual Tree Diameter and Height to Crown Base Using Nonlinear Simultaneous Regression and Airborne LiDAR Data. <i>Remote Sensing</i> , 2020, 12, 2238.	1.8	13
52	Examining phenological variation of on-year and off-year bamboo forests based on the vegetation and environment monitoring on a New Micro-Satellite (VENÅS) time-series data. <i>International Journal of Remote Sensing</i> , 2021, 42, 2203-2219.	1.3	13
53	Environmental Condition Assessment of US Military Installations Using GIS Based Spatial Multi-Criteria Decision Analysis. <i>Environmental Management</i> , 2012, 50, 329-340.	1.2	12
54	Improving Selection of Spectral Variables for Vegetation Classification of East Dongting Lake, China, Using a Gaofen-1 Image. <i>Remote Sensing</i> , 2018, 10, 50.	1.8	12

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55	Spatial and Temporal Assessment of Cumulative Disturbance Impacts Due to Military Training, Burning, Haying, and Their Interactions on Land Condition of Fort Riley. <i>Environmental Management</i> , 2014, 54, 51-66.	1.2	11
56	Multi-Resolution Mapping and Accuracy Assessment of Forest Carbon Density by Combining Image and Plot Data from a Nested and Clustering Sampling Design. <i>Remote Sensing</i> , 2016, 8, 571.	1.8	11
57	Detection of charcoal rot (<i>Macrophomina phaseolina</i>) toxin effects in soybean (<i>Glycine max</i>) seedlings using hyperspectral spectroscopy. <i>Computers and Electronics in Agriculture</i> , 2018, 150, 188-195.	3.7	11
58	Detection of short-term urban land use changes by combining SAR time series images and spectral angle mapping. <i>Frontiers of Earth Science</i> , 2019, 13, 495-509.	0.9	11
59	Improving Forest Aboveground Biomass Estimation of <i>Pinus densata</i> Forest in Yunnan of Southwest China by Spatial Regression using Landsat 8 Images. <i>Remote Sensing</i> , 2019, 11, 2750.	1.8	11
60	Analysis of the Spatial Differences in Canopy Height Models from UAV LiDAR and Photogrammetry. <i>Remote Sensing</i> , 2020, 12, 2884.	1.8	10
61	A Rice Mapping Method Based on Time-Series Landsat Data for the Extraction of Growth Period Characteristics. <i>Sustainability</i> , 2018, 10, 2570.	1.6	9
62	The Optimal Image Date Selection for Evaluating Cultivated Land Quality Based on Gaofen-1 Images. <i>Sensors</i> , 2019, 19, 4937.	2.1	9
63	Modeling and Prediction of Land Condition for Fort Riley Military Installation. <i>Transactions of the ASABE</i> , 2013, 56, 643-652.	1.1	8
64	Estimating the Growing Stem Volume of the Planted Forest Using the General Linear Model and Time Series Quad-Polarimetric SAR Images. <i>Sensors</i> , 2020, 20, 3957.	2.1	8
65	Improving Estimation of Soil Moisture Content Using a Modified Soil Thermal Inertia Model. <i>Remote Sensing</i> , 2020, 12, 1719.	1.8	7
66	Additive crown width models comprising nonlinear simultaneous equations for Prince Rupprecht larch (<i>Larix principis-rupprechtii</i>) in northern China. <i>Trees - Structure and Function</i> , 2017, 31, 1959-1971.	0.9	6
67	Airborne LiDAR-Derived Aboveground Biomass Estimates Using a Hierarchical Bayesian Approach. <i>Remote Sensing</i> , 2019, 11, 1050.	1.8	5
68	A Probability-Based Spectral Unmixing Analysis for Mapping Percentage Vegetation Cover of Arid and Semi-Arid Areas. <i>Remote Sensing</i> , 2019, 11, 3038.	1.8	5
69	The Impact of Vertical Wavenumber on Forest Height Inversion by PolInSAR. , 2018, , .		3
70	Current development of landscape geochemistry with support of geospatial technologies: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 745-790.	6.6	3
71	Prediction and analysis of residential house price using a flexible spatiotemporal model. <i>Journal of Applied Economics</i> , 2022, 25, 503-522.	0.6	3
72	Parallel spatiotemporal autocorrelation and visualization system for large-scale remotely sensed images. <i>Journal of Supercomputing</i> , 2012, 59, 83-103.	2.4	2

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73	Analysis of hyperspectral bands for the health diagnosis of tree species. , 2014, , .		2
74	Modeling Urban PM2.5 Concentration by Combining Regression Models and Spectral Unmixing Analysis in a Region of East China. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	2
75	Improving the Estimation of Forest Carbon Density in Mountainous Regions Using Topographic Correction and Landsat 8 Images. Remote Sensing, 2019, 11, 2619.	1.8	2
76	Editorial Summary, Remote Sensing Special Issue "Advances in Remote Sensing for Global Forest Monitoring" Remote Sensing, 2021, 13, 597.	1.8	2
77	Assessing the impacts of anthropogenic drainage structures on hydrologic connectivity using high-resolution digital elevation models. Transactions in GIS, 2021, 25, 2596-2611.	1.0	2
78	Classification and Feature Extraction for Hydraulic Structures Data Using Advanced CNN Architectures. , 2021, , .		2
79	Design of an Integrated Remote and Ground Sensing Monitor System for Assessing Farmland Quality. Sensors, 2020, 20, 336.	2.1	1
80	Developing an individual tree diameter increment model of oaks using indicator variables and mixed effects in central China. Scandinavian Journal of Forest Research, 2021, 36, 297-305.	0.5	1
81	Spectral unmixing of MODIS data based on improved endmember purification model: application to forest type identification. , 2014, , .		0
82	Impacts of Position Errors on Accuracy of Single Tree Volume Inversion of Cunninghamia lanceolata based on GF-2 Data. , 2018, , .		0