Jianping Wu

List of Publications by Year in descending order

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81 papers	4,915 citations	94433 37 h-index	102487 66 g-index
81 all docs	81 docs citations	81 times ranked	4416 citing authors

#	Article	IF	Citations
1	Evaluating the Ability of NPP-VIIRS Nighttime Light Data to Estimate the Gross Domestic Product and the Electric Power Consumption of China at Multiple Scales: A Comparison with DMSP-OLS Data. Remote Sensing, 2014, 6, 1705-1724.	4.0	481
2	Detecting, Extracting, and Monitoring Surface Water From Space Using Optical Sensors: A Review. Reviews of Geophysics, 2018, 56, 333-360.	23.0	402
3	Evaluation of NPP-VIIRS night-time light composite data for extracting built-up urban areas. Remote Sensing Letters, 2014, 5, 358-366.	1.4	289
4	Modeling spatiotemporal CO2 (carbon dioxide) emission dynamics in China from DMSP-OLS nighttime stable light data using panel data analysis. Applied Energy, 2016, 168, 523-533.	10.1	222
5	Poverty Evaluation Using NPP-VIIRS Nighttime Light Composite Data at the County Level in China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1217-1229.	4.9	204
6	Automated derivation of urban building density information using airborne LiDAR data and object-based method. Landscape and Urban Planning, 2010, 98, 210-219.	7.5	200
7	A Voxel-Based Method for Automated Identification and Morphological Parameters Estimation of Individual Street Trees from Mobile Laser Scanning Data. Remote Sensing, 2013, 5, 584-611.	4.0	189
8	Object-based spatial cluster analysis of urban landscape pattern using nighttime light satellite images: a case study of China. International Journal of Geographical Information Science, 2014, 28, 2328-2355.	4.8	180
9	Detecting spatiotemporal dynamics of global electric power consumption using DMSP-OLS nighttime stable light data. Applied Energy, 2016, 184, 450-463.	10.1	159
10	A New Approach for Detecting Urban Centers and Their Spatial Structure With Nighttime Light Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6305-6319.	6.3	144
11	Whole-exome SNP array identifies 15 new susceptibility loci for psoriasis. Nature Communications, 2015, 6, 6793.	12.8	118
12	Estimating House Vacancy Rate in Metropolitan Areas Using NPP-VIIRS Nighttime Light Composite Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2188-2197.	4.9	112
13	Urban Built-Up Area Extraction From Log- Transformed NPP-VIIRS Nighttime Light Composite Data. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1279-1283.	3.1	102
14	View-based greenery: A three-dimensional assessment of city buildingsâ€™ green visibility using Floor Green View Index. Landscape and Urban Planning, 2016, 152, 13-26.	7.5	96
15	Estimation of Poverty Using Random Forest Regression with Multi-Source Data: A Case Study in Bangladesh. Remote Sensing, 2019, 11, 375.	4.0	95
16	Cellular automata-based spatial multi-criteria land suitability simulation for irrigated agriculture. International Journal of Geographical Information Science, 2011, 25, 131-148.	4.8	94
17	Modeling and mapping total freight traffic in China using NPP-VIIRS nighttime light composite data. GIScience and Remote Sensing, 2015, 52, 274-289.	5.9	94
18	NPP-VIIRS DNB Daily Data in Natural Disaster Assessment: Evidence from Selected Case Studies. Remote Sensing, 2018, 10, 1526.	4.0	90

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19	Exploring the relationship between 2D/3D landscape pattern and land surface temperature based on explainable eXtreme Gradient Boosting tree: A case study of Shanghai, China. Science of the Total Environment, 2020, 725, 138229.	8.0	90
20	Urban Expansion and Agricultural Land Loss in China: A Multiscale Perspective. Sustainability, 2016, 8, 790.	3.2	83
21	Identifying and evaluating poverty using multisource remote sensing and point of interest (POI) data: A case study of Chongqing, China. Journal of Cleaner Production, 2020, 255, 120245.	9.3	77
22	Toward automatic estimation of urban green volume using airborne LiDAR data and high resolution Remote Sensing images. Frontiers of Earth Science, 2013, 7, 43-54.	2.1	76
23	Investigating impacts of urban morphology on spatio-temporal variations of solar radiation with airborne LIDAR data and a solar flux model: a case study of downtown Houston. International Journal of Remote Sensing, 2009, 30, 4359-4385.	2.9	65
24	Integration of nighttime light remote sensing images and taxi GPS tracking data for population surface enhancement. International Journal of Geographical Information Science, 2019, 33, 687-706.	4.8	62
25	Effects of urban forms on CO2 emissions in China from a multi-perspective analysis. Journal of Environmental Management, 2020, 262, 110300.	7.8	62
26	Individual tree crown delineation using localized contour tree method and airborne LiDAR data in coniferous forests. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 82-94.	2.8	60
27	Assessing spatial likelihood of flooding hazard using naÃ¯ve Bayes and GIS: a case study in Bowen Basin, Australia. Stochastic Environmental Research and Risk Assessment, 2016, 30, 1575-1590.	4.0	60
28	DEM-based modification of pixel-swapping algorithm for enhancing floodplain inundation mapping. International Journal of Remote Sensing, 2014, 35, 365-381.	2.9	58
29	A Graph-Based Approach for 3D Building Model Reconstruction from Airborne LiDAR Point Clouds. Remote Sensing, 2017, 9, 92.	4.0	58
30	Mapping Global Urban Areas From 2000 to 2012 Using Time-Series Nighttime Light Data and MODIS Products. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1143-1153.	4.9	53
31	Estimating Roof Solar Energy Potential in the Downtown Area Using a GPU-Accelerated Solar Radiation Model and Airborne LiDAR Data. Remote Sensing, 2015, 7, 17212-17233.	4.0	48
32	Automated extraction of ground surface along urban roads from mobile laser scanning point clouds. Remote Sensing Letters, 2016, 7, 170-179.	1.4	48
33	Integrating Entropyâ€Based NaÃ¯ve Bayes and GIS for Spatial Evaluation of Flood Hazard. Risk Analysis, 2017, 37, 756-773.	2.7	45
34	Delineating Seasonal Relationships Between Suomi NPP-VIIRS Nighttime Light and Human Activity Across Shanghai, China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4275-4283.	4.9	44
35	An evaluation of Suomi NPP-VIIRS data for surface water detection. Remote Sensing Letters, 2015, 6, 155-164.	1.4	41
36	An Extended Minimum Spanning Tree method for characterizing local urban patterns. International Journal of Geographical Information Science, 2018, 32, 450-475.	4.8	40

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37	Sodium Storage Mechanism of Nongraphitic Carbons: A General Model and the Function of Accessible Closed Pores. Chemistry of Materials, 2022, 34, 3489-3500.	6.7	40
38	A Spatial-Socioeconomic Urban Development Status Curve from NPP-VIIRS Nighttime Light Data. Remote Sensing, 2019, 11, 2398.	4.0	39
39	Analyzing parcel-level relationships between Luojia 1-01 nighttime light intensity and artificial surface features across Shanghai, China: A comparison with NPP-VIIRS data. International Journal of Applied Earth Observation and Geoinformation, 2020, 85, 101989.	2.8	38
40	Automated Extraction of Street Lights From JL1-3B Nighttime Light Data and Assessment of Their Solar Energy Potential. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 675-684.	4.9	32
41	A surface network based method for studying urban hierarchies by night time light remote sensing data. International Journal of Geographical Information Science, 2019, 33, 1377-1398.	4.8	30
42	A multistage collaborative 3D GIS to support public participation. International Journal of Digital Earth, 2015, 8, 212-234.	3.9	25
43	Pre-evacuation Time Estimation Based Emergency Evacuation Simulation in Urban Residential Communities. International Journal of Environmental Research and Public Health, 2019, 16, 4599.	2.6	25
44	Analysis of Thermal Structure of Arctic Lakes at Local and Regional Scales Using in Situ and Multidate Landsatâ€8 Data. Water Resources Research, 2017, 53, 9642-9658.	4.2	24
45	Nighttime Light Images Reveal Spatial-Temporal Dynamics of Global Anthropogenic Resources Accumulation above Ground. Environmental Science & Technology, 2018, 52, 11520-11527.	10.0	22
46	Mapping 3D visibility in an urban street environment from mobile LiDAR point clouds. GIScience and Remote Sensing, 2020, 57, 797-812.	5.9	22
47	Evaluating Water Resource Security in Karst Areas Using DPSIRM Modeling, Gray Correlation, and Matterâ€“Element Analysis. Sustainability, 2018, 10, 3934.	3.2	20
48	Spatio-temporal pattern of urban land cover evolvement with urban renewal and expansion in Shanghai based on mixed-pixel classification for remote sensing imagery. International Journal of Remote Sensing, 2010, 31, 6095-6114.	2.9	19
49	A New Method for Building-Level Population Estimation by Integrating LiDAR, Nighttime Light, and POI Data. Journal of Remote Sensing, 2021, 2021, .	6.7	19
50	Mapping fine-scale visual quality distribution inside urban streets using mobile LiDAR data. Building and Environment, 2021, 206, 108323.	6.9	17
51	NPP-VIIRS Nighttime Light Data Have Different Correlated Relationships With Fossil Fuel Combustion Carbon Emissions From Different Sectors. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 2062-2066.	3.1	15
52	Identification of Vehicle-Pedestrian Collision Hotspots at the Micro-Level Using Network Kernel Density Estimation and Random Forests: A Case Study in Shanghai, China. Sustainability, 2018, 10, 4762.	3.2	14
53	Evolution of Urban Spatial Clusters in China: A Graph-Based Method Using Nighttime Light Data. Annals of the American Association of Geographers, 2022, 112, 56-77.	2.2	14
54	Investigating the Temporal and Spatial Variability of Total Ozone Column in the Yangtze River Delta Using Satellite Data: 1978â€“2013. Remote Sensing, 2014, 6, 12527-12543.	4.0	13

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55	Automatic building rooftop extraction using a digital surface model derived from aerial stereo images. Journal of Spatial Science, 2022, 67, 21-40.	1.5	13
56	A spatiotemporal structural graph for characterizing land cover changes. International Journal of Geographical Information Science, 2021, 35, 397-425.	4.8	13
57	An object-based two-stage method for a detailed classification of urban landscape components by integrating airborne LiDAR and color infrared image data: A case study of downtown Houston. , 2009, , .		11
58	Assessment of coastal erosion vulnerability and socio-economic impact along the Yangtze River Delta. Ocean and Coastal Management, 2021, 215, 105953.	4.4	11
59	Design and Implementation of a Mobile GIS for Field Data Collection. , 2009, , .		10
60	Towards Healthy Aging: Influence of the Built Environment on Elderly Pedestrian Safety at the Micro-Level. International Journal of Environmental Research and Public Health, 2021, 18, 9534.	2.6	10
61	High-Accuracy Attitude Determination Using Single-Difference Observables Based on Multi-Antenna GNSS Receiver with a Common Clock. Remote Sensing, 2021, 13, 3977.	4.0	9
62	The Relationship Between Urban 2-D/3-D Landscape Pattern and Nighttime Light Intensity. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 478-489.	4.9	9
63	Integration of remotely sensed inundation extent and high-precision topographic data for mapping inundation depth. , 2014, , .		8
64	Investigating the Potential of Using POI and Nighttime Light Data to Map Urban Road Safety at the Micro-Level: A Case in Shanghai, China. Sustainability, 2019, 11, 4739.	3.2	7
65	Evaluating the Ability of NOAA-20 Monthly Composite Data for Socioeconomic Indicators Estimation and Urban Area Extraction. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1837-1845.	4.9	7
66	Locating suitable roofs for utilization of solar energy in downtown area using airborne LiDAR data and object-based method: A case study of the Lujiazui region, Shanghai. , 2012, , .		6
67	A monthly night-time light composite dataset of NOAA-20 in China: a multi-scale comparison with S-NPP. International Journal of Remote Sensing, 2021, 42, 7931-7951.	2.9	6
68	Voxel-based Marked Neighborhood Searching method for identifying street trees using Vehicle-borne Laser Scanning data. , 2012, , .		4
69	Validation of total ozone column derived from OMPS using ground-based spectroradiometer measurements. Remote Sensing Letters, 2013, 4, 937-945.	1.4	4
70	Evaluation of ICESat-2 ATL03/08 Surface Heights in Urban Environments Using Airborne LiDAR Point Cloud Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	4
71	A geospatial web portal for sharing and analyzing greenhouse gas data derived from satellite remote sensing images. Frontiers of Earth Science, 2013, 7, 295-309.	2.1	3
72	A dem-based modified pixel swapping algorithm for floodplain inundation mapping at subpixel scale. , 2013, , .		3

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73	A method for representing thematic data in three-dimensional GIS. , 2010, , .		2
74	Mobile and Wireless GIS Based Upon Independent Development. , 2010, , .		2
75	Spatial indexing of global geographical data with HTM. , 2010, , .		2
76	Application of ArcGIS in fractal analysis of rivers. , 2011, , .		1
77	Ant Colony Optimisation based land use suitability classification. , 2012, , .		1
78	Mining the Features of Environmental Physical Field Influencing Trajectories of Mesoscale Convective Systems Based on Spatial Clustering Analysis. , 2008, , .		0
79	An Automatic Tracking Approach for Monitoring Moving Targets from Meteorological Satellite Image Sequence Based on Point-Pattern Matching. , 2008, , .		0
80	Preliminary discussion on large-scale water conservancy in ancient Liangzhu City Area, Yangtze Delta of China: Highlight of early agricultural civilization. Journal of Earth Science (Wuhan, China), 2010, 21, 281-283.	3.2	0
81	Spatial heterogeneity of land use along the coast of the Yangtze River Delta and implications for exposure assessment to erosion hazard. Anthropocene Coasts, 2022, 5, .	1.5	0