

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
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81
all docs

81
docs citations

81
times ranked

4416
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic building rooftop extraction using a digital surface model derived from aerial stereo images. <i>Journal of Spatial Science</i> , 2022, 67, 21-40.	1.5	13
2	Evolution of Urban Spatial Clusters in China: A Graph-Based Method Using Nighttime Light Data. <i>Annals of the American Association of Geographers</i> , 2022, 112, 56-77.	2.2	14
3	Evaluation of ICESat-2 ATLO3/08 Surface Heights in Urban Environments Using Airborne LiDAR Point Cloud Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	3.1	4
4	The Relationship Between Urban 2-D/3-D Landscape Pattern and Nighttime Light Intensity. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 478-489.	4.9	9
5	Evaluating the Ability of NOAA-20 Monthly Composite Data for Socioeconomic Indicators Estimation and Urban Area Extraction. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 1837-1845.	4.9	7
6	Sodium Storage Mechanism of Nongraphitic Carbons: A General Model and the Function of Accessible Closed Pores. <i>Chemistry of Materials</i> , 2022, 34, 3489-3500.	6.7	40
7	Spatial heterogeneity of land use along the coast of the Yangtze River Delta and implications for exposure assessment to erosion hazard. <i>Anthropocene Coasts</i> , 2022, 5, .	1.5	0
8	NPP-VIIRS Nighttime Light Data Have Different Correlated Relationships With Fossil Fuel Combustion Carbon Emissions From Different Sectors. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021, 18, 2062-2066.	3.1	15
9	A spatiotemporal structural graph for characterizing land cover changes. <i>International Journal of Geographical Information Science</i> , 2021, 35, 397-425.	4.8	13
10	A New Method for Building-Level Population Estimation by Integrating LiDAR, Nighttime Light, and POI Data. <i>Journal of Remote Sensing</i> , 2021, 2021, .	6.7	19
11	A monthly night-time light composite dataset of NOAA-20 in China: a multi-scale comparison with S-NPP. <i>International Journal of Remote Sensing</i> , 2021, 42, 7931-7951.	2.9	6
12	Towards Healthy Aging: Influence of the Built Environment on Elderly Pedestrian Safety at the Micro-Level. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 9534.	2.6	10
13	Mapping fine-scale visual quality distribution inside urban streets using mobile LiDAR data. <i>Building and Environment</i> , 2021, 206, 108323.	6.9	17
14	High-Accuracy Attitude Determination Using Single-Difference Observables Based on Multi-Antenna GNSS Receiver with a Common Clock. <i>Remote Sensing</i> , 2021, 13, 3977.	4.0	9
15	Assessment of coastal erosion vulnerability and socio-economic impact along the Yangtze River Delta. <i>Ocean and Coastal Management</i> , 2021, 215, 105953.	4.4	11
16	Analyzing parcel-level relationships between Luojia 1-01 nighttime light intensity and artificial surface features across Shanghai, China: A comparison with NPP-VIIRS data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 85, 101989.	2.8	38
17	Mapping 3D visibility in an urban street environment from mobile LiDAR point clouds. <i>GIScience and Remote Sensing</i> , 2020, 57, 797-812.	5.9	22
18	Effects of urban forms on CO2 emissions in China from a multi-perspective analysis. <i>Journal of Environmental Management</i> , 2020, 262, 110300.	7.8	62

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19	Automated Extraction of Street Lights From JL1-3B Nighttime Light Data and Assessment of Their Solar Energy Potential. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 675-684.	4.9	32
20	Identifying and evaluating poverty using multisource remote sensing and point of interest (POI) data: A case study of Chongqing, China. <i>Journal of Cleaner Production</i> , 2020, 255, 120245.	9.3	77
21	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. <i>Science of the Total Environment</i> , 2020, 725, 138229.	8.0	90
22	A Spatial-Socioeconomic Urban Development Status Curve from NPP-VIIRS Nighttime Light Data. <i>Remote Sensing</i> , 2019, 11, 2398.	4.0	39
23	Investigating the Potential of Using POI and Nighttime Light Data to Map Urban Road Safety at the Micro-Level: A Case in Shanghai, China. <i>Sustainability</i> , 2019, 11, 4739.	3.2	7
24	Delineating Seasonal Relationships Between Suomi NPP-VIIRS Nighttime Light and Human Activity Across Shanghai, China. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 4275-4283.	4.9	44
25	Mapping Global Urban Areas From 2000 to 2012 Using Time-Series Nighttime Light Data and MODIS Products. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 1143-1153.	4.9	53
26	A surface network based method for studying urban hierarchies by night time light remote sensing data. <i>International Journal of Geographical Information Science</i> , 2019, 33, 1377-1398.	4.8	30
27	Estimation of Poverty Using Random Forest Regression with Multi-Source Data: A Case Study in Bangladesh. <i>Remote Sensing</i> , 2019, 11, 375.	4.0	95
28	Pre-evacuation Time Estimation Based Emergency Evacuation Simulation in Urban Residential Communities. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4599.	2.6	25
29	Integration of nighttime light remote sensing images and taxi GPS tracking data for population surface enhancement. <i>International Journal of Geographical Information Science</i> , 2019, 33, 687-706.	4.8	62
30	An Extended Minimum Spanning Tree method for characterizing local urban patterns. <i>International Journal of Geographical Information Science</i> , 2018, 32, 450-475.	4.8	40
31	Evaluating Water Resource Security in Karst Areas Using DPSIRM Modeling, Gray Correlation, and Matter-Element Analysis. <i>Sustainability</i> , 2018, 10, 3934.	3.2	20
32	Identification of Vehicle-Pedestrian Collision Hotspots at the Micro-Level Using Network Kernel Density Estimation and Random Forests: A Case Study in Shanghai, China. <i>Sustainability</i> , 2018, 10, 4762.	3.2	14
33	NPP-VIIRS DNB Daily Data in Natural Disaster Assessment: Evidence from Selected Case Studies. <i>Remote Sensing</i> , 2018, 10, 1526.	4.0	90
34	Nighttime Light Images Reveal Spatial-Temporal Dynamics of Global Anthropogenic Resources Accumulation above Ground. <i>Environmental Science & Technology</i> , 2018, 52, 11520-11527.	10.0	22
35	Detecting, Extracting, and Monitoring Surface Water From Space Using Optical Sensors: A Review. <i>Reviews of Geophysics</i> , 2018, 56, 333-360.	23.0	402
36	Urban Built-Up Area Extraction From Log-Transformed NPP-VIIRS Nighttime Light Composite Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018, 15, 1279-1283.	3.1	102

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37	A New Approach for Detecting Urban Centers and Their Spatial Structure With Nighttime Light Remote Sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 6305-6319.	6.3	144
38	Integrating Entropy-Based Naïve Bayes and GIS for Spatial Evaluation of Flood Hazard. <i>Risk Analysis</i> , 2017, 37, 756-773.	2.7	45
39	Analysis of Thermal Structure of Arctic Lakes at Local and Regional Scales Using in Situ and Multidate Landsat-8 Data. <i>Water Resources Research</i> , 2017, 53, 9642-9658.	4.2	24
40	A Graph-Based Approach for 3D Building Model Reconstruction from Airborne LiDAR Point Clouds. <i>Remote Sensing</i> , 2017, 9, 92.	4.0	58
41	Urban Expansion and Agricultural Land Loss in China: A Multiscale Perspective. <i>Sustainability</i> , 2016, 8, 790.	3.2	83
42	View-based greenery: A three-dimensional assessment of city buildings' green visibility using Floor Green View Index. <i>Landscape and Urban Planning</i> , 2016, 152, 13-26.	7.5	96
43	Individual tree crown delineation using localized contour tree method and airborne LiDAR data in coniferous forests. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 52, 82-94.	2.8	60
44	Detecting spatiotemporal dynamics of global electric power consumption using DMSP-OLS nighttime stable light data. <i>Applied Energy</i> , 2016, 184, 450-463.	10.1	159
45	Assessing spatial likelihood of flooding hazard using naïve Bayes and GIS: a case study in Bowen Basin, Australia. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 1575-1590.	4.0	60
46	Modeling spatiotemporal CO ₂ (carbon dioxide) emission dynamics in China from DMSP-OLS nighttime stable light data using panel data analysis. <i>Applied Energy</i> , 2016, 168, 523-533.	10.1	222
47	Automated extraction of ground surface along urban roads from mobile laser scanning point clouds. <i>Remote Sensing Letters</i> , 2016, 7, 170-179.	1.4	48
48	Estimating Roof Solar Energy Potential in the Downtown Area Using a GPU-Accelerated Solar Radiation Model and Airborne LiDAR Data. <i>Remote Sensing</i> , 2015, 7, 17212-17233.	4.0	48
49	Poverty Evaluation Using NPP-VIIRS Nighttime Light Composite Data at the County Level in China. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 1217-1229.	4.9	204
50	Whole-exome SNP array identifies 15 new susceptibility loci for psoriasis. <i>Nature Communications</i> , 2015, 6, 6793.	12.8	118
51	A multistage collaborative 3D GIS to support public participation. <i>International Journal of Digital Earth</i> , 2015, 8, 212-234.	3.9	25
52	Modeling and mapping total freight traffic in China using NPP-VIIRS nighttime light composite data. <i>GIScience and Remote Sensing</i> , 2015, 52, 274-289.	5.9	94
53	An evaluation of Suomi NPP-VIIRS data for surface water detection. <i>Remote Sensing Letters</i> , 2015, 6, 155-164.	1.4	41
54	Estimating House Vacancy Rate in Metropolitan Areas Using NPP-VIIRS Nighttime Light Composite Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 2188-2197.	4.9	112

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55	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. <i>Remote Sensing</i> , 2014, 6, 1705-1724.	4.0	481
56	Investigating the Temporal and Spatial Variability of Total Ozone Column in the Yangtze River Delta Using Satellite Data: 1978–2013. <i>Remote Sensing</i> , 2014, 6, 12527-12543.	4.0	13
57	Evaluation of NPP-VIIRS night-time light composite data for extracting built-up urban areas. <i>Remote Sensing Letters</i> , 2014, 5, 358-366.	1.4	289
58	Object-based spatial cluster analysis of urban landscape pattern using nighttime light satellite images: a case study of China. <i>International Journal of Geographical Information Science</i> , 2014, 28, 2328-2355.	4.8	180
59	DEM-based modification of pixel-swapping algorithm for enhancing floodplain inundation mapping. <i>International Journal of Remote Sensing</i> , 2014, 35, 365-381.	2.9	58
60	Integration of remotely sensed inundation extent and high-precision topographic data for mapping inundation depth. , 2014, , .		8
61	A geospatial web portal for sharing and analyzing greenhouse gas data derived from satellite remote sensing images. <i>Frontiers of Earth Science</i> , 2013, 7, 295-309.	2.1	3
62	Validation of total ozone column derived from OMPS using ground-based spectroradiometer measurements. <i>Remote Sensing Letters</i> , 2013, 4, 937-945.	1.4	4
63	Toward automatic estimation of urban green volume using airborne LiDAR data and high resolution Remote Sensing images. <i>Frontiers of Earth Science</i> , 2013, 7, 43-54.	2.1	76
64	A dem-based modified pixel swapping algorithm for floodplain inundation mapping at subpixel scale. , 2013, , .		3
65	A Voxel-Based Method for Automated Identification and Morphological Parameters Estimation of Individual Street Trees from Mobile Laser Scanning Data. <i>Remote Sensing</i> , 2013, 5, 584-611.	4.0	189
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	Voxel-based Marked Neighborhood Searching method for identifying street trees using Vehicle-borne Laser Scanning data. , 2012, , .		4
68	Ant Colony Optimisation based land use suitability classification. , 2012, , .		1
69	Cellular automata-based spatial multi-criteria land suitability simulation for irrigated agriculture. <i>International Journal of Geographical Information Science</i> , 2011, 25, 131-148.	4.8	94
70	Application of ArcGIS in fractal analysis of rivers. , 2011, , .		1
71	Preliminary discussion on large-scale water conservancy in ancient Liangzhu City Area, Yangtze Delta of China: Highlight of early agricultural civilization. <i>Journal of Earth Science (Wuhan, China)</i> , 2010, 21, 281-283.	3.2	0
72	Spatio-temporal pattern of urban land cover evolution with urban renewal and expansion in Shanghai based on mixed-pixel classification for remote sensing imagery. <i>International Journal of Remote Sensing</i> , 2010, 31, 6095-6114.	2.9	19

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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	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
77	Design and Implementation of a Mobile GIS for Field Data Collection. , 2009, , .		10
78	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
79	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
80	Mining the Features of Environmental Physical Field Influencing Trajectories of Mesoscale Convective Systems Based on Spatial Clustering Analysis. , 2008, , .		0
81	An Automatic Tracking Approach for Monitoring Moving Targets from Meteorological Satellite Image Sequence Based on Point-Pattern Matching. , 2008, , .		0