

Bailang Yu

List of Publications by Year in descending order

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91
papers

5,506
citations

76326

40
h-index

82547

72
g-index

91
all docs

91
docs citations

91
times ranked

3725
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. <i>Remote Sensing</i> , 2014, 6, 1705-1724.	4.0	481
2	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
3	An extended time series (2000–2018) of global NPP-VIIRS-like nighttime light data from a cross-sensor calibration. <i>Earth System Science Data</i> , 2021, 13, 889-906.	9.9	286
4	Extracting and understanding urban areas of interest using geotagged photos. <i>Computers, Environment and Urban Systems</i> , 2015, 54, 240-254.	7.1	232
5	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
6	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
7	Automated derivation of urban building density information using airborne LiDAR data and object-based method. <i>Landscape and Urban Planning</i> , 2010, 98, 210-219.	7.5	200
8	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
9	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
10	Applications of Satellite Remote Sensing of Nighttime Light Observations: Advances, Challenges, and Perspectives. <i>Remote Sensing</i> , 2019, 11, 1971.	4.0	171
11	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
12	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
13	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
14	Normalization of time series DMSP-OLS nighttime light images for urban growth analysis with Pseudo Invariant Features. <i>Landscape and Urban Planning</i> , 2014, 128, 1-13.	7.5	109
15	Spatiotemporal variations of CO ₂ emissions and their impact factors in China: A comparative analysis between the provincial and prefectural levels. <i>Applied Energy</i> , 2019, 233-234, 170-181.	10.1	105
16	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
17	Mapping annual urban dynamics (1985–2015) using time series of Landsat data. <i>Remote Sensing of Environment</i> , 2018, 216, 674-683.	11.0	101
18	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

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19	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
20	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
21	Exploring spatiotemporal patterns of electric power consumption in countries along the Belt and Road. <i>Energy</i> , 2018, 150, 847-859.	8.8	92
22	NPP-VIIRS DNB Daily Data in Natural Disaster Assessment: Evidence from Selected Case Studies. <i>Remote Sensing</i> , 2018, 10, 1526.	4.0	90
23	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
24	Urban Expansion and Agricultural Land Loss in China: A Multiscale Perspective. <i>Sustainability</i> , 2016, 8, 790.	3.2	83
25	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
26	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
27	Intra-urban differences of mean radiant temperature in different urban settings in Shanghai and implications for heat stress under heat waves: A GIS-based approach. <i>Energy and Buildings</i> , 2016, 130, 829-842.	6.7	68
28	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. <i>International Journal of Remote Sensing</i> , 2009, 30, 4359-4385.	2.9	65
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	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
31	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
32	A Graph-Based Approach for 3D Building Model Reconstruction from Airborne LiDAR Point Clouds. <i>Remote Sensing</i> , 2017, 9, 92.	4.0	58
33	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
34	A localized contour tree method for deriving geometric and topological properties of complex surface depressions based on high-resolution topographical data. <i>International Journal of Geographical Information Science</i> , 2015, 29, 2041-2060.	4.8	52
35	The potential of nighttime light remote sensing data to evaluate the development of digital economy: A case study of China at the city level. <i>Computers, Environment and Urban Systems</i> , 2022, 92, 101749.	7.1	51
36	Improving MODIS snow products with a HMRF-based spatio-temporal modeling technique in the Upper Rio Grande Basin. <i>Remote Sensing of Environment</i> , 2018, 204, 568-582.	11.0	49

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37	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
38	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
39	Evaluating spatiotemporal patterns of urban electricity consumption within different spatial boundaries: A case study of Chongqing, China. <i>Energy</i> , 2019, 167, 641-653.	8.8	46
40	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
41	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
42	A Spatial-Socioeconomic Urban Development Status Curve from NPP-VIIRS Nighttime Light Data. <i>Remote Sensing</i> , 2019, 11, 2398.	4.0	39
43	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
44	Analysis of Sentinel-3 SAR altimetry waveform retracking algorithms for deriving temporally consistent water levels over ice-covered lakes. <i>Remote Sensing of Environment</i> , 2020, 239, 111643.	11.0	38
45	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
46	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
47	Multi-Level Spatial Analysis for Change Detection of Urban Vegetation at Individual Tree Scale. <i>Remote Sensing</i> , 2014, 6, 9086-9103.	4.0	29
48	A multistage collaborative 3D GIS to support public participation. <i>International Journal of Digital Earth</i> , 2015, 8, 212-234.	3.9	25
49	Assessing the potential and utilization of solar energy at the building-scale in Shanghai. <i>Sustainable Cities and Society</i> , 2022, 82, 103917.	10.4	25
50	Analysis of Thermal Structure of Arctic Lakes at Local and Regional Scales Using in Situ and Multisatellite Landsat-8 Data. <i>Water Resources Research</i> , 2017, 53, 9642-9658.	4.2	24
51	Urban Building Type Mapping Using Geospatial Data: A Case Study of Beijing, China. <i>Remote Sensing</i> , 2020, 12, 2805.	4.0	23
52	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
53	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
54	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

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55	Revealing the early ice flow patterns with historical Declassified Intelligence Satellite Photographs back to 1960s. <i>Geophysical Research Letters</i> , 2016, 43, 5758-5767.	4.0	18
56	Mapping fine-scale visual quality distribution inside urban streets using mobile LiDAR data. <i>Building and Environment</i> , 2021, 206, 108323.	6.9	17
57	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
58	Snow cover detection in mid-latitude mountainous and polar regions using nighttime light data. <i>Remote Sensing of Environment</i> , 2022, 268, 112766.	11.0	15
59	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
60	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
61	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
62	A spatiotemporal structural graph for characterizing land cover changes. <i>International Journal of Geographical Information Science</i> , 2021, 35, 397-425.	4.8	13
63	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
64	Estimation of snow accumulation over frozen Arctic lakes using repeat ICESat laser altimetry observations – A case study in northern Alaska. <i>Remote Sensing of Environment</i> , 2018, 216, 529-543.	11.0	10
65	Spatio-temporal Cokriging method for assimilating and downscaling multi-scale remote sensing data. <i>Remote Sensing of Environment</i> , 2021, 255, 112190.	11.0	10
66	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
67	Estimation of Cargo Handling Capacity of Coastal Ports in China Based on Panel Model and DMSP-OLS Nighttime Light Data. <i>Remote Sensing</i> , 2019, 11, 582.	4.0	8
68	Mapping Vegetation-Covered Urban Surfaces Using Seeded Region Growing in Visible-NIR Air Photos. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 2212-2221.	4.9	7
69	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
70	A solution for the data collection in the field survey based on Mobile and Wireless GIS. , 2010, , .		6
71	Analyzing spatio-temporal distribution of crime hot-spots and their related factors in Shanghai, China. , 2011, , .		6
72	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

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73	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
74	Evaluation of Vegetation Indexes and Green-Up Date Extraction Methods on the Tibetan Plateau. <i>Remote Sensing</i> , 2022, 14, 3160.	4.0	6
75	Siting of Dark Sky Reserves in China Based on Multi-source Spatial Data and Multiple Criteria Evaluation Method. <i>Chinese Geographical Science</i> , 2019, 29, 949-961.	3.0	5
76	Quantitative Analysis of Urban Polycentric Interaction Using Nighttime Light Data: A Case Study of Shanghai, China. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 1114-1122.	4.9	5
77	Voxel-based Marked Neighborhood Searching method for identifying street trees using Vehicle-borne Laser Scanning data. , 2012, , .		4
78	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
79	A graph-based approach for assessing storm-induced coastal changes. <i>International Journal of Remote Sensing</i> , 2016, 37, 4854-4873.	2.9	4
80	Evaluation of ICESat-2 ATL03/08 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
81	Simulating and Mapping the Variations of Solar Radiation at the Lujiazui Region of Shanghai Using Airborne LiDAR Data. <i>Key Engineering Materials</i> , 0, 500, 511-516.	0.4	3
82	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
83	Improving Satellite Waveform Altimetry Measurements With a Probabilistic Relaxation Algorithm. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 4733-4748.	6.3	3
84	A method for representing thematic data in three-dimensional GIS. , 2010, , .		2
85	Mobile and Wireless GIS Based Upon Independent Development. , 2010, , .		2
86	Spatial indexing of global geographical data with HTM. , 2010, , .		2
87	An Approach for Integrating Geospatial Processing Services into Three-Dimensional GIS. <i>Lecture Notes in Computer Science</i> , 2010, , 154-161.	1.3	2
88	Object-based algorithms and methods for quantifying urban growth pattern using sequential satellite images. , 2008, , .		1
89	Application of ArcGIS in fractal analysis of rivers. , 2011, , .		1
90	An integrated framework for retrieving and analyzing geographic information in web pages. , 2011, , .		0

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91	Analysis of water temperature variability of Arctic lakes using Landsat-8 data. , 2015, , .		0