

# Qinchuan Xin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63 papers	1,454 citations	23 h-index	36 g-index
72 ext. papers	1,791 ext. citations	5.8 avg, IF	5.02 L-index

#	Paper	IF	Citations
63	Counting trees in a subtropical mega city using the instance segmentation method. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2022</b> , 106, 102662	7.3	2
62	Deep Learning-Based Spatiotemporal Data Fusion Using a Patch-to-Pixel Mapping Strategy and Model Comparisons. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2022</b> , 60, 1-18	8.1	0
61	A Densely Attentive Refinement Network for Change Detection based on Very-High-Resolution Bi-Temporal Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2022</b> , 1-1	8.1	6
60	Modeling and analyzing supply-demand relationships of water resources in Xinjiang from a perspective of ecosystem services. <i>Journal of Arid Land</i> , <b>2022</b> , 14, 115-138	2.2	1
59	Machine Learning-Based Modeling of Vegetation Leaf Area Index and Gross Primary Productivity Across North America and Comparison With a Process-Based Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2021MS002802	7.1	1
58	Annual dynamic dataset of global cropping intensity from 2001 to 2019. <i>Scientific Data</i> , <b>2021</b> , 8, 283	8.2	2
57	Identifying Leaf Phenology of Deciduous Broadleaf Forests from PhenoCam Images Using a Convolutional Neural Network Regression Method. <i>Remote Sensing</i> , <b>2021</b> , 13, 2331	5	5
56	A method for quality management of vegetation phenophases derived from satellite remote sensing data. <i>International Journal of Remote Sensing</i> , <b>2021</b> , 42, 5811-5830	3.1	4
55	Constructing 10-m NDVI Time Series From Landsat 8 and Sentinel 2 Images Using Convolutional Neural Networks. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 18, 1461-1465	4.1	7
54	How does urban expansion interact with cropland loss? A comparison of 14 Chinese cities from 1980 to 2015. <i>Landscape Ecology</i> , <b>2021</b> , 36, 243-263	4.3	26
53	Arbitrary-Shaped Building Boundary-Aware Detection with Pixel Aggregation Network. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2021</b> , 1-1	4.7	6
52	Attention-Guided Label Refinement Network for Semantic Segmentation of Very High Resolution Aerial Orthoimages. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2021</b> , 14, 4490-4503	4.7	8
51	A deep-learning-based experiment for benchmarking the performance of global terrestrial vegetation phenology models. <i>Global Ecology and Biogeography</i> , <b>2021</b> , 30, 2178	6.1	4
50	A Deep Learning-Based Framework for Automated Extraction of Building Footprint Polygons from Very High-Resolution Aerial Imagery. <i>Remote Sensing</i> , <b>2021</b> , 13, 3630	5	7
49	Comparisons of numerical phenology models and machine learning methods on predicting the spring onset of natural vegetation across the Northern Hemisphere. <i>Ecological Indicators</i> , <b>2021</b> , 131, 108126	5.8	1
48	Development of a global annual land surface phenology dataset for 1982-2018 from the AVHRR data by implementing multiple phenology retrieving methods. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2021</b> , 103, 102487	7.3	1
47	Topology-Preserving and Geometric Feature-Correction Watermarking of Vector Maps. <i>IEEE Access</i> , <b>2020</b> , 8, 33428-33441	3.5	2

46	A Semiprognostic Phenology Model for Simulating Multidecadal Dynamics of Global Vegetation Leaf Area Index. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2019MS001935	7.1	2
45	Evaluations and comparisons of rule-based and machine-learning-based methods to retrieve satellite-based vegetation phenology using MODIS and USA National Phenology Network data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2020</b> , 93, 102189	7.3	15
44	Prediction and Analysis of Lake Ice Phenology Dynamics Under Future Climate Scenarios Across the Inner Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2020JD033082	4.4	5
43	Fine-Grained Building Change Detection From Very High-Spatial-Resolution Remote Sensing Images Based on Deep Multitask Learning. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2020</b> , 1-5	4.1	9
42	A Global High-Resolution Data Set of Soil Hydraulic and Thermal Properties for Land Surface Modeling. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 2996-3023	7.1	40
41	Automatic building extraction from high-resolution aerial images and LiDAR data using gated residual refinement network. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2019</b> , 151, 91-105	11.8	100
40	Dual Zero-Watermarking Scheme for Two-Dimensional Vector Map Based on Delaunay Triangle Mesh and Singular Value Decomposition. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 642	2.6	8
39	Cumulative Effects of Climatic Factors on Terrestrial Vegetation Growth. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 789-806	3.7	27
38	A simple time-stepping scheme to simulate leaf area index, phenology, and gross primary production across deciduous broadleaf forests in the eastern United States. <i>Biogeosciences</i> , <b>2019</b> , 16, 467-484	4.6	3
37	A review of the global soil property maps for Earth system models. <i>Soil</i> , <b>2019</b> , 5, 137-158	5.8	44
36	Deep Learning Approaches for the Mapping of Tree Species Diversity in a Tropical Wetland Using Airborne LiDAR and High-Spatial-Resolution Remote Sensing Images. <i>Forests</i> , <b>2019</b> , 10, 1047	2.8	24
35	Enhanced Vegetation Growth in the Urban Environment Across 32 Cities in the Northern Hemisphere. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 3831-3846	3.7	11
34	Automated Surface Water Extraction Combining Sentinel-2 Imagery and OpenStreetMap Using Presence and Background Learning (PBL) Algorithm. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2019</b> , 12, 3784-3798	4.7	7
33	A new satellite-based indicator to identify spatiotemporal foraging areas for herbivorous waterfowl. <i>Ecological Indicators</i> , <b>2019</b> , 99, 83-90	5.8	9
32	Improving satellite-based modelling of gross primary production in deciduous broadleaf forests by accounting for seasonality in light use efficiency. <i>International Journal of Remote Sensing</i> , <b>2019</b> , 40, 931-955	3.1	8
31	Comparison of country-level cropland areas between ESA-CCI land cover maps and FAOSTAT data. <i>International Journal of Remote Sensing</i> , <b>2018</b> , 39, 6631-6645	3.1	27
30	Recognition of building group patterns in topographic maps based on graph partitioning and random forest. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2018</b> , 136, 26-40	11.8	28
29	The Application of Discrete Wavelet Transform with Improved Partial Least-Squares Method for the Estimation of Soil Properties with Visible and Near-Infrared Spectral Data. <i>Remote Sensing</i> , <b>2018</b> , 10, 867	5	8

28	A steady-state approximation approach to simulate seasonal leaf dynamics of deciduous broadleaf forests via climate variables. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 249, 44-56	5.8	7
27	Extracting Building Boundaries from High Resolution Optical Images and LiDAR Data by Integrating the Convolutional Neural Network and the Active Contour Model. <i>Remote Sensing</i> , <b>2018</b> , 10, 1459	5	32
26	Satellite-Based Models Need Improvements to Simulating Annual Gross Primary Productivity: A Comparison of Six Models for Regional Modeling of Deciduous Broadleaf Forests. <i>Remote Sensing</i> , <b>2018</b> , 10, 1008	5	1
25	Developing a multi-filter convolutional neural network for semantic segmentation using high-resolution aerial imagery and LiDAR data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2018</b> , 143, 3-14	11.8	59
24	Quantifying the spatial and temporal relationship between air and land surface temperatures of different land-cover types in Southeastern China. <i>International Journal of Remote Sensing</i> , <b>2017</b> , 38, 1114-1136 <sup>12</sup>	2.1	136
23	Elevated atmospheric CO <sub>2</sub> negatively impacts photosynthesis through radiative forcing and physiology-mediated climate feedback. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 1956	4.9	14
22	Monitoring annual urbanization activities in Guangzhou using Landsat images (1987-2015). <i>International Journal of Remote Sensing</i> , <b>2017</b> , 38, 1258-1276	3.1	7
21	High Resolution Mapping of Cropping Cycles by Fusion of Landsat and MODIS Data. <i>Remote Sensing</i> , <b>2017</b> , 9, 1232	5	14
20	Global snow cover estimation with Microwave Brightness Temperature measurements and one-class in situ observations. <i>Remote Sensing of Environment</i> , <b>2016</b> , 182, 227-251	13.2	17
19	A risk-benefit model to simulate vegetation spring onset in response to multi-decadal climate variability: Theoretical basis and applications from the field to the Northern Hemisphere. <i>Agricultural and Forest Meteorology</i> , <b>2016</b> , 228-229, 139-163	5.8	9
18	Effects of the partitioning of diffuse and direct solar radiation on satellite-based modeling of crop gross primary production. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2016</b> , 50, 51-63	7.3	17
17	Modeling the impacts of water and fertilizer management on the ecosystem service of rice rotated cropping systems in China. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 219, 49-57	5.7	33
16	Quantifying Multi-Decadal Change of Planted Forest Cover Using Airborne LiDAR and Landsat Imagery. <i>Remote Sensing</i> , <b>2016</b> , 8, 62	5	14
15	Propagating Updates of Residential Areas in Multi-Representation Databases Using Constrained Delaunay Triangulations. <i>ISPRS International Journal of Geo-Information</i> , <b>2016</b> , 5, 80	2.9	5
14	Modeling grassland spring onset across the Western United States using climate variables and MODIS-derived phenology metrics. <i>Remote Sensing of Environment</i> , <b>2015</b> , 161, 63-77	13.2	61
13	Do Arctic breeding geese track or overtake a green wave during spring migration?. <i>Scientific Reports</i> , <b>2015</b> , 5, 8749	4.9	38
12	Improving the quantification of waterfowl migration with remote sensing and bird tracking. <i>Science Bulletin</i> , <b>2015</b> , 60, 1984-1993	10.6	23
11	Multi-scale evaluation of light use efficiency in MODIS gross primary productivity for croplands in the Midwestern United States. <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 201, 111-119	5.8	44

10	Modeling photosynthesis of discontinuous plant canopies by linking the Geometric Optical Radiative Transfer model with biochemical processes. <i>Biogeosciences</i> , <b>2015</b> , 12, 3447-3467	4.6	7
9	Meta-discoveries from a synthesis of satellite-based land-cover mapping research. <i>International Journal of Remote Sensing</i> , <b>2014</b> , 35, 4573-4588	3.1	101
8	Mapping Crop Cycles in China Using MODIS-EVI Time Series. <i>Remote Sensing</i> , <b>2014</b> , 6, 2473-2493	5	90
7	Land surface phenological response to decadal climate variability across Australia using satellite remote sensing. <i>Biogeosciences</i> , <b>2014</b> , 11, 5181-5198	4.6	70
6	Dynamic assessment of the impact of drought on agricultural yield and scale-dependent return periods over large geographic regions. <i>Environmental Modelling and Software</i> , <b>2014</b> , 62, 454-464	5.2	38
5	FROM-GC: 30 m global cropland extent derived through multisource data integration. <i>International Journal of Digital Earth</i> , <b>2013</b> , 6, 521-533	3.9	102
4	Toward near real-time monitoring of forest disturbance by fusion of MODIS and Landsat data. <i>Remote Sensing of Environment</i> , <b>2013</b> , 135, 234-247	13.2	85
3	A Production Efficiency Model-Based Method for Satellite Estimates of Corn and Soybean Yields in the Midwestern US. <i>Remote Sensing</i> , <b>2013</b> , 5, 5926-5943	5	44
2	View angle effects on MODIS snow mapping in forests. <i>Remote Sensing of Environment</i> , <b>2012</b> , 118, 50-59	13.2	48
1	Land surface phenological response to decadal climate variability across Australia using satellite remote sensing		4