

# Xiangnan Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

580  
citations

687363

13  
h-index

677142

22  
g-index

40  
all docs

40  
docs citations

40  
times ranked

712  
citing authors

#	ARTICLE	IF	CITATIONS
1	Online Forest Disturbance Detection at the Sub-Annual Scale Using Spatial Context From Sparse Landsat Time Series. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	1
2	Integrating satellite-based passive microwave and optically sensed observations to evaluating the spatio-temporal dynamics of vegetation health in the red soil regions of southern China. <i>GIScience and Remote Sensing</i> , 2022, 59, 215-233.	5.9	4
3	Establishing forest resilience indicators in the hilly red soil region of southern China from vegetation greenness and landscape metrics using dense Landsat time series. <i>Ecological Indicators</i> , 2021, 121, 106985.	6.3	19
4	Recent trends in premature mortality and health disparities attributable to ambient PM2.5 exposure in China: 2005â€“2017. <i>Environmental Pollution</i> , 2021, 279, 116882.	7.5	25
5	An Improved Spatiotemporal Data Fusion Method Using Surface Heterogeneity Information Based on ESTARFM. <i>Remote Sensing</i> , 2020, 12, 3673.	4.0	15
6	Parallel Computing for Obtaining Regional Scale Rice Growth Conditions Based on WOFOST and Satellite Images. <i>IEEE Access</i> , 2020, 8, 223675-223685.	4.2	6
7	Analysis of ecological resilience to evaluate the inherent maintenance capacity of a forest ecosystem using a dense Landsat time series. <i>Ecological Informatics</i> , 2020, 57, 101064.	5.2	21
8	Spatio-temporal Index Based on Time Series of Leaf Area Index for Identifying Heavy Metal Stress in Rice under Complex Stressors. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2265.	2.6	4
9	Multi-Type Forest Change Detection Using BFAST and Monthly Landsat Time Series for Monitoring Spatiotemporal Dynamics of Forests in Subtropical Wetland. <i>Remote Sensing</i> , 2020, 12, 341.	4.0	45
10	Identifying rice stress on a regional scale from multi-temporal satellite images using a Bayesian method. <i>Environmental Pollution</i> , 2019, 247, 488-498.	7.5	9
11	A Framework for Rice Heavy Metal Stress Monitoring Based on Phenological Phase Space and Temporal Profile Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 350.	2.6	4
12	Remote examination of the seasonal succession of phytoplankton assemblages from time-varying trends. <i>Journal of Environmental Management</i> , 2019, 246, 687-694.	7.8	12
13	Assimilating Remote Sensing Phenological Information into the WOFOST Model for Rice Growth Simulation. <i>Remote Sensing</i> , 2019, 11, 268.	4.0	28
14	Developing a New Spectral Index for Detecting Cadmium-Induced Stress in Rice on a Regional Scale. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4811.	2.6	11
15	Downscaling of GRACE datasets based on relevance vector machine using InSAR time series to generate maps of groundwater storage changes at local scale. <i>Journal of Applied Remote Sensing</i> , 2019, 13, 1.	1.3	12
16	Distinguishing two phenotypes of blooms using the normalised difference peak-valley index (NDPI) and Cyano-Chlorophyta index (CCI). <i>Science of the Total Environment</i> , 2018, 628-629, 848-857.	8.0	22
17	Combination of Crop Growth Model and Radiation Transfer Model with Remote Sensing Data Assimilation for Fapar Estimation. , 2018, , .		1
18	Classification of Rice Heavy Metal Stress Levels Based on Phenological Characteristics Using Remote Sensing Time-Series Images and Data Mining Algorithms. <i>Sensors</i> , 2018, 18, 4425.	3.8	4

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19	Phenology-Based Residual Trend Analysis of MODIS-NDVI Time Series for Assessing Human-Induced Land Degradation. <i>Sensors</i> , 2018, 18, 3676.	3.8	15
20	Finding the Key Periods for Assimilating HJ-1A/B CCD Data and the WOFOST Model to Evaluate Heavy Metal Stress in Rice. <i>Sensors</i> , 2018, 18, 1230.	3.8	2
21	Comparative Analysis of GF-1 and HJ-1 Data to Derive the Optimal Scale for Monitoring Heavy Metal Stress in Rice. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 461.	2.6	2
22	Evaluating Heavy Metal Stress Levels in Rice Based on Remote Sensing Phenology. <i>Sensors</i> , 2018, 18, 860.	3.8	13
23	A New Vegetation Index Based on Multitemporal Sentinel-2 Images for Discriminating Heavy Metal Stress Levels in Rice. <i>Sensors</i> , 2018, 18, 2172.	3.8	44
24	Heavy metal-induced stress in rice crops detected using multi-temporal Sentinel-2 satellite images. <i>Science of the Total Environment</i> , 2018, 637-638, 18-29.	8.0	55
25	Thermal infrared imaging of the variability of canopy-air temperature difference distribution for heavy metal stress levels discrimination in rice. <i>Journal of Applied Remote Sensing</i> , 2017, 11, 026036.	1.3	6
26	Remote estimation of cyanobacterial blooms using the risky grade index (RGI) and coverage area index (CAI): a case study in the Three Gorges Reservoir, China. <i>Environmental Science and Pollution Research</i> , 2017, 24, 19044-19056.	5.3	9
27	Assessment of heavy metal stress using hyperspectral data. , 2017, , .		0
28	Temporal Interpolation of Satellite-Derived Leaf Area Index Time Series by Introducing Spatial-Temporal Constraints for Heterogeneous Grasslands. <i>Remote Sensing</i> , 2017, 9, 968.	4.0	9
29	Extraction of Rice Phenological Differences under Heavy Metal Stress Using EVI Time-Series from HJ-1A/B Data. <i>Sensors</i> , 2017, 17, 1243.	3.8	14
30	Deriving the Characteristic Scale for Effectively Monitoring Heavy Metal Stress in Rice by Assimilation of GF-1 Data with the WOFOST Model. <i>Sensors</i> , 2016, 16, 340.	3.8	9
31	Root mass ratio: index derived by assimilation of synthetic aperture radar and the improved World Food Study model for heavy metal stress monitoring in rice. <i>Journal of Applied Remote Sensing</i> , 2016, 10, 026038.	1.3	6
32	Optimizing the Temporal Scale in the Assimilation of Remote Sensing and WOFOST Model for Dynamically Monitoring Heavy Metal Stress in Rice. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 1685-1695.	4.9	9
33	Spatiotemporal Variability of Chlorophyll a and Sea Surface Temperature in the Northern South China Sea from 2002 to 2012. <i>Canadian Journal of Remote Sensing</i> , 2015, 41, 547-560.	2.4	5
34	The dynamic simulation of rice growth parameters under cadmium stress with the assimilation of multi-period spectral indices and crop model. <i>Field Crops Research</i> , 2015, 183, 225-234.	5.1	65
35	Combining DMSP/OLS Nighttime Light with Echo State Network for Prediction of Daily PM2.5 Average Concentrations in Shanghai, China. <i>Atmosphere</i> , 2015, 6, 1507-1520.	2.3	21
36	Estimating Nitrogen Content of Corn Based on Wavelet Energy Coefficient and BP Neural Network. , 2015, , .		4

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37	The Dynamic Assessment Model for Monitoring Cadmium Stress Levels in Rice Based on the Assimilation of Remote Sensing and the WOFOST Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1330-1338.	4.9	27
38	Analyzing the Spatial Scaling Bias of Rice Leaf Area Index From Hyperspectral Data Using Wavelet-Fractal Technique. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3068-3080.	4.9	13
39	A random forest model for estimating Canopy Chlorophyll Content in rice using hyperspectral measurements. , 2013, , .		0
40	Alternative Fuzzy Cluster segmentation of remote sensing images based on Adaptive Genetic Algorithm. Chinese Geographical Science, 2009, 19, 83-88.	3.0	9