

# Xiaojun Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

3,307  
citations

201385

27  
h-index

155451

55  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3486  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                           | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Finer resolution observation and monitoring of global land cover: first mapping results with Landsat TM and ETM+ data. <i>International Journal of Remote Sensing</i> , 2013, 34, 2607-2654.                                                      | 1.3 | 1,263     |
| 2  | Analysis of common canopy vegetation indices for indicating leaf nitrogen accumulations in wheat and rice. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2008, 10, 1-10.                                         | 1.4 | 131       |
| 3  | Combining Color Indices and Textures of UAV-Based Digital Imagery for Rice LAI Estimation. <i>Remote Sensing</i> , 2019, 11, 1763.                                                                                                                | 1.8 | 126       |
| 4  | Optimal Leaf Positions for SPAD Meter Measurement in Rice. <i>Frontiers in Plant Science</i> , 2016, 7, 719.                                                                                                                                      | 1.7 | 118       |
| 5  | Wheat Growth Monitoring and Yield Estimation based on Multi-Rotor Unmanned Aerial Vehicle. <i>Remote Sensing</i> , 2020, 12, 508.                                                                                                                 | 1.8 | 114       |
| 6  | Development of critical nitrogen dilution curve of Japonica rice in Yangtze River Reaches. <i>Field Crops Research</i> , 2013, 149, 149-158.                                                                                                      | 2.3 | 111       |
| 7  | Indicators for diagnosing nitrogen status of rice based on chlorophyll meter readings. <i>Field Crops Research</i> , 2016, 185, 12-20.                                                                                                            | 2.3 | 88        |
| 8  | Estimation of nitrogen fertilizer requirement for rice crop using critical nitrogen dilution curve. <i>Field Crops Research</i> , 2017, 201, 32-40.                                                                                               | 2.3 | 86        |
| 9  | In-season estimation of rice grain yield using critical nitrogen dilution curve. <i>Field Crops Research</i> , 2016, 195, 1-8.                                                                                                                    | 2.3 | 85        |
| 10 | Predicting Rice Grain Yield Based on Dynamic Changes in Vegetation Indexes during Early to Mid-Growth Stages. <i>Remote Sensing</i> , 2019, 11, 387.                                                                                              | 1.8 | 69        |
| 11 | Climate change impacts on regional rice production in China. <i>Climatic Change</i> , 2018, 147, 523-537.                                                                                                                                         | 1.7 | 66        |
| 12 | Combining texture, color, and vegetation indices from fixed-wing UAS imagery to estimate wheat growth parameters using multivariate regression methods. <i>Computers and Electronics in Agriculture</i> , 2021, 185, 106138.                      | 3.7 | 60        |
| 13 | Development of critical nitrogen dilution curve in rice based on leaf dry matter. <i>European Journal of Agronomy</i> , 2014, 55, 20-28.                                                                                                          | 1.9 | 50        |
| 14 | Comparison of different critical nitrogen dilution curves for nitrogen diagnosis in rice. <i>Scientific Reports</i> , 2017, 7, 42679.                                                                                                             | 1.6 | 47        |
| 15 | HcTyr and HcTyp-1 of <i>Hyriopsis cumingii</i> , novel tyrosinase and tyrosinase-related protein genes involved in nacre color formation. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2017, 204, 1-8. | 0.7 | 45        |
| 16 | Potential of UAV-Based Active Sensing for Monitoring Rice Leaf Nitrogen Status. <i>Frontiers in Plant Science</i> , 2018, 9, 1834.                                                                                                                | 1.7 | 45        |
| 17 | Using a Portable Active Sensor to Monitor Growth Parameters and Predict Grain Yield of Winter Wheat. <i>Sensors</i> , 2019, 19, 1108.                                                                                                             | 2.1 | 45        |
| 18 | Estimation of Rice Growth Parameters Based on Linear Mixed-Effect Model Using Multispectral Images from Fixed-Wing Unmanned Aerial Vehicles. <i>Remote Sensing</i> , 2019, 11, 1371.                                                              | 1.8 | 44        |

| #  | ARTICLE                                                                                                                                                                                                                 | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | New Critical Nitrogen Curve Based on Leaf Area Index for Winter Wheat. <i>Agronomy Journal</i> , 2014, 106, 379-389.                                                                                                    | 0.9 | 41        |
| 20 | Combining UAV multispectral imagery and ecological factors to estimate leaf nitrogen and grain protein content of wheat. <i>European Journal of Agronomy</i> , 2022, 132, 126405.                                       | 1.9 | 41        |
| 21 | Silkmapin of <i>Hyriopsis cumingii</i> , a novel silk-like shell matrix protein involved in nacre formation. <i>Gene</i> , 2015, 555, 217-222.                                                                          | 1.0 | 35        |
| 22 | Development of a Critical Nitrogen Dilution Curve of Double Cropping Rice in South China. <i>Frontiers in Plant Science</i> , 2017, 8, 638.                                                                             | 1.7 | 35        |
| 23 | Canopy Chlorophyll Density Based Index for Estimating Nitrogen Status and Predicting Grain Yield in Rice. <i>Frontiers in Plant Science</i> , 2017, 8, 1829.                                                            | 1.7 | 35        |
| 24 | Improving wheat yield prediction integrating proximal sensing and weather data with machine learning. <i>Computers and Electronics in Agriculture</i> , 2022, 195, 106852.                                              | 3.7 | 34        |
| 25 | Chlorophyll meter-based nitrogen fertilizer optimization algorithm and nitrogen nutrition index for in-season fertilization of paddy rice. <i>Agronomy Journal</i> , 2020, 112, 288-300.                                | 0.9 | 32        |
| 26 | Using an Active-Optical Sensor to Develop an Optimal NDVI Dynamic Model for High-Yield Rice Production (Yangtze, China). <i>Sensors</i> , 2017, 17, 672.                                                                | 2.1 | 30        |
| 27 | Mapping Winter Wheat with Combinations of Temporally Aggregated Sentinel-2 and Landsat-8 Data in Shandong Province, China. <i>Remote Sensing</i> , 2020, 12, 2065.                                                      | 1.8 | 29        |
| 28 | Determination of Critical Nitrogen Dilution Curve Based on Stem Dry Matter in Rice. <i>PLoS ONE</i> , 2014, 9, e104540.                                                                                                 | 1.1 | 28        |
| 29 | A Model-Based Estimate of Regional Wheat Yield Gaps and Water Use Efficiency in Main Winter Wheat Production Regions of China. <i>Scientific Reports</i> , 2017, 7, 6081.                                               | 1.6 | 27        |
| 30 | A Comparative Assessment of Measures of Leaf Nitrogen in Rice Using Two Leaf-Clip Meters. <i>Sensors</i> , 2020, 20, 175.                                                                                               | 2.1 | 26        |
| 31 | A New Curve of Critical Nitrogen Concentration Based on Spike Dry Matter for Winter Wheat in Eastern China. <i>PLoS ONE</i> , 2016, 11, e0164545.                                                                       | 1.1 | 25        |
| 32 | Hichin, a chitin binding protein is essential for the self-assembly of organic frameworks and calcium carbonate during shell formation. <i>International Journal of Biological Macromolecules</i> , 2019, 135, 745-751. | 3.6 | 23        |
| 33 | Use of an Active Canopy Sensor Mounted on an Unmanned Aerial Vehicle to Monitor the Growth and Nitrogen Status of Winter Wheat. <i>Remote Sensing</i> , 2020, 12, 3684.                                                 | 1.8 | 23        |
| 34 | Exploring Novel Bands and Key Index for Evaluating Leaf Equivalent Water Thickness in Wheat Using Hyperspectra Influenced by Nitrogen. <i>PLoS ONE</i> , 2014, 9, e96352.                                               | 1.1 | 22        |
| 35 | Advances in the estimations and applications of critical nitrogen dilution curve and nitrogen nutrition index of major cereal crops. A review. <i>Computers and Electronics in Agriculture</i> , 2022, 197, 106998.     | 3.7 | 20        |
| 36 | In-season variable rate nitrogen recommendation for wheat precision production supported by fixed-wing UAV imagery. <i>Precision Agriculture</i> , 2022, 23, 830-853.                                                   | 3.1 | 17        |

| #  | ARTICLE                                                                                                                                                                                                         | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Development of Chlorophyll-Meter-Index-Based Dynamic Models for Evaluation of High-Yield Japonica Rice Production in Yangtze River Reaches. <i>Agronomy</i> , 2019, 9, 106.                                     | 1.3 | 15        |
| 38 | Combining fixed-wing UAV multispectral imagery and machine learning to diagnose winter wheat nitrogen status at the farm scale. <i>European Journal of Agronomy</i> , 2022, 138, 126537.                        | 1.9 | 15        |
| 39 | Evaluation of the chlorophyll meter and GreenSeeker for the assessment of rice nitrogen status. <i>Advances in Animal Biosciences</i> , 2017, 8, 359-363.                                                       | 1.0 | 14        |
| 40 | Formation of the prismatic layer in the freshwater bivalve <i>Hyriopsis cumingii</i> : the feedback of crystal growth on organic matrix. <i>Acta Zoologica</i> , 2015, 96, 30-36.                               | 0.6 | 13        |
| 41 | Uncertainty analysis of critical nitrogen dilution curves for wheat. <i>European Journal of Agronomy</i> , 2021, 128, 126315.                                                                                   | 1.9 | 13        |
| 42 | A Knowledge-Based Model for Nitrogen Management in Rice and Wheat. <i>Plant Production Science</i> , 2009, 12, 100-108.                                                                                         | 0.9 | 12        |
| 43 | A Novel Matrix Protein Hic31 from the Prismatic Layer of <i>Hyriopsis Cumingii</i> Displays a Collagen-Like Structure. <i>PLoS ONE</i> , 2015, 10, e0135123.                                                    | 1.1 | 12        |
| 44 | <i>Hyriopsis cumingii</i> Hic52: A novel nacreous layer matrix protein with a collagen-like structure. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 667-673.                          | 3.6 | 11        |
| 45 | Does the Organ-Based N Dilution Curve Improve the Predictions of N Status in Winter Wheat?. <i>Agriculture (Switzerland)</i> , 2020, 10, 500.                                                                   | 1.4 | 11        |
| 46 | Optimizing spikelet fertilizer input in irrigated rice system can reduce nitrous oxide emission while increase grain yield. <i>Agriculture, Ecosystems and Environment</i> , 2022, 324, 107737.                 | 2.5 | 11        |
| 47 | Using an Active Sensor to Develop New Critical Nitrogen Dilution Curve for Winter Wheat. <i>Sensors</i> , 2020, 20, 1577.                                                                                       | 2.1 | 10        |
| 48 | Evaluation of Three Portable Optical Sensors for Non-Destructive Diagnosis of Nitrogen Status in Winter Wheat. <i>Sensors</i> , 2021, 21, 5579.                                                                 | 2.1 | 10        |
| 49 | A new canopy chlorophyll index-based paddy rice critical nitrogen dilution curve in eastern China. <i>Field Crops Research</i> , 2021, 266, 108139.                                                             | 2.3 | 9         |
| 50 | A novel nacre matrix protein hic24 in <i>Hyriopsis cumingii</i> is essential for calcium carbonate nucleation and involved in pearl formation. <i>Biotechnology and Applied Biochemistry</i> , 2019, 66, 14-20. | 1.4 | 8         |
| 51 | Delineating soil nutrient management zones based on optimal sampling interval in medium- and small-scale intensive farming systems. <i>Precision Agriculture</i> , 2022, 23, 538-558.                           | 3.1 | 7         |
| 52 | Leaf Area Index Estimation Using Time-Series MODIS Data in Different Types of Vegetation. <i>Journal of the Indian Society of Remote Sensing</i> , 2014, 42, 733-743.                                           | 1.2 | 5         |
| 53 | Improving Estimation of Winter Wheat Nitrogen Status Using Random Forest by Integrating Multi-Source Data Across Different Agro-Ecological Zones. <i>Frontiers in Plant Science</i> , 0, 13, .                  | 1.7 | 5         |
| 54 | A Rice Model System for Determining Suitable Sowing and Transplanting Dates. <i>Agronomy</i> , 2020, 10, 604.                                                                                                   | 1.3 | 4         |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Key variable for simulating critical nitrogen dilution curve of wheat: Leaf area ratio-driven approach. <i>Pedosphere</i> , 2022, 32, 463-474. | 2.1 | 4         |
| 56 | Development of a growth model-based decision support system for crop management. <i>Frontiers of Agriculture in China</i> , 2007, 1, 296-300.  | 0.2 | 1         |
| 57 | A dynamic statistical model for geospatial data access laws based on cloud computing., 2013, , .                                               |     | 1         |