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Research Interests

- Crop planting adaptability and crop growth model
- Regional development
- Agricultural economy and trade

Publication

Nondestructive estimation of potato yield using relative variables derived from multi-period LAI and hyperspectral data based on weighted growth stage, Plant Methods, 2020, DOI: 10.1186/s13007-020-00693-3

Spatializing growth suitability for spring soybean cultivation in northeast China, Journal of Applied Meteorology and Climatology, 2013, DOI: 10.1175/JAMC-D-11-0259.1

Using an integrated response-function method to explore agro-climatic suitability for spring soybean growth in north China, Journal of Applied Meteorology and Climatology, 2011, DOI: 10.1175/2010JAMC2577.1

Comparison of the retrieving precision of potato leaf area index derived from several vegetation indices and spectral parameters of the continuum removal method, European Journal of Remote Sensing, 2019, DOI: 10.1080/22797254.2019.1572460



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Using a process-oriented methodology to precisely evaluate temperature suitability for potato growth in China using GIS, Journal of Integrative Agriculture, 2017, DOI: 10.1016/S2095-3119(16)61627-1

Linking a farmer crop selection model (FCS) with an agronomic model (EPIC) to simulate cropping pattern in northeast China, Journal of Integrative Agriculture, 2016, DOI: ZGNX.O.2016-10-024

Assessment of unified models for estimating potato leaf area index under water stress conditions across ground-based hyperspectral data, Journal of Applied Remote Sensing, 2020, DOI: 10.1117/1.JRS.14.014517

Analysis of hyperspectral variation of different potato cultivars based on continuum removed spectra(CN), Spectroscopy and Spectral Analysis, 2018, DOI: 10.3964/j.issn.1000-0593(2018)10-3231-07

Analysis on the ability of distinguishing potato varieties with different hyperspectral parameters(CN), Spectroscopy and Spectral Analysis, 2018, DOI: 10.3964/j.issn.1000-0593(2018)10-3215-06

Extraction and analysis of potato appearance characteristics and spatial distribution information(Monograph)(CN), Beijing/China Agricultural Science and Technology Press. 2018, ISBN: 978751168250