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Research Interests

- Agricultural remote sensing
- Chlorophyll fluorescence remote Sensing
- Assimilation of crop model and remote sensing
- Carbon and nitrogen cycle simulation
- Greenhouse gas emission and climate change

Publication

Influence of adjacency effect on high-spatial-1 resolution thermal infrared imagery: Implication for radiative transfer simulation and land surface temperature retrieval, Remote Sensing of Environment, 2020, DOI:10.1016/j.rse.2020.111852

Impact of 3-D Structures and Their Radiation on Thermal Infrared Measurements in Urban Areas, IEEE Transactions on Geoscience and Remote Sensing, 2020, DOI:10.1109/TGRS.2020.2987880

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Drought loss assessment combining remote sensing and a crop growth model for maize in Yunnan Province, China, International Journal of Remote Sensing, 2019, DOI:10.1080/01431161.2018.1519291

A practical approach for deriving all-weather soil moisture content using combined satellite and meteorological data, ISPRS Journal of Photogrammetry and Remote Sensing, 2017, DOI:10.1016/j.isprsjprs.2017.07.013

The development of China-DNDC and review of its applications for sustaining Chinese agriculture, Ecological Modelling, 2017, DOI:10.1016/j.ecolmodel.2017.01.003

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Modeling nitrogen loading from a watershed consisting of cropland and livestock farms in China using Manure-DNDC, Agriculture, Ecosystems & Environment, 2014, DOI:10.1016/j.agee.2013.10.023

Calibration of DNDC model for nitrate leaching from an intensively cultivated region of Northern China, Geoderma , 2014, DOI:10.1016/j.geoderma.2014.01.002

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Nitrogen removal potential and influencing factors of aquatic plants in ditches, Beijing/China Agricultural Science and Technology Press, 2016, ISBN:9787511628145

Study on Atmospheric Water Vapor and Surface Temperature Retrieved from Multi-source Remote Sensing, Beijing/China Agricultural Science and Technology Press, 2016, ISBN:9787511626752

Simulation of nitrogen pollution from agricultural non-point sources at watershed scale,

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Simulation of livestock and poultry breeding and waste disposal process, Beijing/China Agricultural Science and Technology Press, 2015, ISBN:978-7-5116-2255-6

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