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Research Interests

- Soil physics
- Nitrogen nutrition
- Fertilizer recommendation technology

Publication

Evaluation of Both SPAD Reading and SPAD Index on Estimating the Plant Nitrogen Status of Winter Wheat, International Journal of Plant Production, 2020, DOI: 10.1007/s42106-019-00068-2

Optimizing the Nitrogen Management Strategy for Winter Wheat in the North China Plain Using Rapid Soil and Plant Nitrogen Measurements, Communications in Soil Science and Plant Analysis, 2019, DOI: 10.1080/00103624.2019.1604738

Design and experiment of heavy liquid-type negative pressure valve used for negative pressure irrigation, Transactions of the Chinese Society of Agricultural Engineering, 2018, DOI: 10.11975/j.j.issn.1002-6819.2018.01.012

Manure substitution of mineral fertilizers increased functional stability through changing structure and physiology of microbial communities, European Journal of Soil Biology, 2016, DOI: 10.1016/j.ejsobi.2016.10.002



Green Window Approach for improving nitrogen management by farmers in small-scale wheat fields, Journal of Agricultural Science, 2015, DOI: 10.1017/S0021859614000203

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Study on potential of biological nitrogen fixation of soybean in China(CN), Journal of Plant Nutrition and Fertilizer, 2014, DOI: 10.11674/zwyf.2014.0620

Evaluating the Validity of a Nitrate Quick Test in Different Chinese Soils, Pedosphere, 2012, DOI: 10.1016/S1002-0160(12)60047-2

Nitrogen-15 labeling and nitrogen transformation in silage maize-cattle manure system(CN), Chinese Journal of Eco-Agriculture, 2012, DOI: 10.3724/SP.J.1011.2012.00024

Nitrogen loss and use efficiency of one-time basal application of cattle manure in autumn to a winter wheat - summer maize cropping system on the North China Plain(CN), Plant Nutrition and Fertilizer Science, 2011