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### Research Interests

- Soil water - crop relation
- Crop oriented soil water regulation
- Evapotranspiration
- Soil genesis and classification
- Soil survey and evaluation

### Publication

**Connotation and research progress of crop active water drawing technology(CN)**, Transactions of the Chinese Society of Agricultural Engineering, 2020, DOI: 10.11975/j.issn.1002-6819.2020.23.017

**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.issn.1002-6819.2018.01.012

**Comparison of ceramic tube and polyvinyl formal emitters under negative pressure irrigation on soil water use efficiency and nutrient uptake of crown daisy(*Glebionis coronaria* L.)**, Agricultural Water Management, 2020, DOI: 10.1016/j.agwat.2019.105830



**Effects of different irrigation management parameters on cumulative water supply under negative pressure irrigation**, Agricultural Water Management, 2019, DOI: 10.1016/j.agwat.2019.105743

**Simulations of water movement and solute transport through different soil texture configurations under negative-pressure irrigation**, Hydrological Processes, 2017, DOI: 10.1002/hyp. 11209

**Water and salt movement in different soil textures under various negative irrigating pressures**, Journal of Integrative Agriculture, 2016, DOI: 10.1016/S2095-3119(15)61209-6

**Spatiotemporal Distribution of Calibration Coefficients of Hargreaves Equation for Estimating Potential Evapotranspiration in Mainland China**, Journal of Irrigation and Drainage Engineering, 2013, DOI: 10.1061/%28ASCE%29IR.1943-4774.0000534

**Effects of auxiliaries on mechanical properties and negative pressure water permeability of polyvinyl formal(CN)**, Transactions of the Chinese Society of Agricultural Engineering, 2017, DOI: 10. 11975/j.issn.1002-6819.2017.08.015

**Effects of 20 Consecutive Years of Potassium Application on Soil Potassium Quantity-Intensity (Q/I)Relationship in Flue-cured Tobacco-rape Rotation System(CN)**, Acta Pedologica Sinica, 2019, DOI: 10.11766/trxb201811200543

**Genetic Characteristics and Classification of Typical Sierozem in Central Ningxia,China(CN)**, Acta Pedologica Sinica, 2018, DOI: 10.11766/trxb201706120097

**Soil series of China • Hebei volume (CN)**, Beijing/China Science Publishing & Media Ltd. 2017, ISBN: 978-7-03-054315-8

**Soil series of China • Ningxia volume (CN)**,Beijing/China Science Publishing & Media Ltd. 2020, ISBN: 978-7-5088-5816-6