

# Biography



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## EDUCATION

- Ph.D. Hydrology and water resources, Xi'an University of technology, China, 2004;
- M.Sc. Water Conservancy and Hydropower Engineering, Ningxia Agricultural College, China, 1998;
- B.Sc., Agricultural water conservancy Engineering, Ningxia Agricultural College, China 1989.

## RESEARCH INTERESTS

- Simulation of soil water and nitrogen transport under drip irrigation condition
- Nitrogen transport characteristics and effective utilization of intermittent irrigation under fertilization conditions
- Theory and technology of water saving irrigation in arid region
- Irrigation Efficiency Improvement
- Water/fertilizer coupling and numerical simulation on potato under dripping irrigation in the arid region
- The optimal combination of water and fertilizer on *Lycium Barbarum L.* under dripping irrigation in the arid region

## RESEARCH AND TEACHING EXPERIENCE

**Jan. 2011 to present----** Professor and Vice Chair of Civil & Water Conservancy

### College

#### RESEARCH

- Nitrogen transport characteristics and effective utilization of intermittent irrigation under fertilization conditions
- Water and fertilizer coupling and numerical simulation on potato under dripping irrigation in the arid region

- The optimal combination of water and fertilizer on *Lycium Barbarum L.* under dripping irrigation in the arid region

## **TEACHING Undergraduate**

《Engineering Hydrology》, 《Water Hydropower Planning》, 《Hydrology and Water Conservancy Calculation》

## **TEACHING Graduate**

《Environmental Hydrology》, 《Watershed Hydrological Model》, 《Soil Water Dynamics》, 《Eco-hydrology》, 《Soil Solute Transport》

**Sep. 2009 to Dec. 2010 -----Associate Professor and Vice Chair in Civil & Water Conservancy college**

## **RESEARCH**

- Study on Influence of Recirculation Rate on Intermittent Infiltration Characteristics of surge irrigation and Groundwater Quality
- Effect of irrigation quota on soil nitrate nitrogen concentration under surge irrigation
- Study on Effect of Irrigation Quota on Intermittent Infiltration Rate of Surge Irrigation Soil
- study on nitrate transport characteristics and  $\text{NO}_3^-$ -N distribution in groundwater under intermittent infiltration of surge irrigation
- Study on Nitrogen Leaching under Controlled Drainage in Paddy Field of southern Yinchuan Irrigated Area in Ningxia

## **TEACHING EXPERIENCE**

### **TEACHING Graduate**

《Environmental Hydrology》, 《Watershed Hydrological Model》, 《Soil Water Dynamics》, 《Eco-hydrology》, 《Soil Solute Transport》

## **PUBLICATIONS**

- Zhang Le, **Yin Juan**, Wang Bohuai, Tang Rui. 2018, Effects of Different Irrigation Treatments on Growth Characteristics and Water Use Efficiency of Maize. **Irrigation Drainage.** 37(2):24-29.
- Zheng Yanjun, **Yin Juan**, Cheng Liang. 2017, Effects of Different Irrigation Treatments on Yield and Quality of *Lycium Barbarum*. **Water Saving Irrigation.**9:28-32.

- Cheng Liang, **in Juan**, Zheng Yanjun. 2017, Study on The Water Consumption Law of Drip Irrigation under a Drip Irrigation Condition in Arid Region of Central Ningxia. **Irrigation and Drainage.** 36(7):22-27.
- Li Wengzheng, Ma Guocheng, **Yin Juan**. 2016, Effects of Different Water and Fertilizer Treatments on Potato Fertilizer Utilization Efficiency. **Water Saving Irrigation.**9:44-47.
- Li Wengzheng, **Yin Juan**, Ma Guocheng. 2016, Effects of Water and Fertilizer Coupling on Potato Dry Matter Production. **Water Saving Irrigation.**10:15-19.
- **Yin Juan**, Liu Fan, Luo jinghao. 2015, Effects of Different Irrigation Treatments on Potato Growth and Yield. **Irrigation and Drainage.**3(34):90-93.
- **Yin Juan**, Fei Liangjun, Zhu Yuefa. 2009, Effect of Irrigation Quota on Soil Nitrate Nitrogen Concentration under Surge Irrigation. **Journal of Agricultural Engineering.** 25(5):30-34. (EI)
- **Yin Juan**, Fei Liangjun, Li Xuefeng, Lu Hongqin, 2009, Experimental studies on effects of irrigation quota on water infiltration characteristics under intermittent infiltration of surge irrigation. **Agricultural Research in Arid Areas.** 27(1):135-139.
- **Yin Juan**, Fei Liangjun, Cheng Dongjuan, 2007, Laboratory experiment on characteristics of capillary water upward movement from homogeneous soil. **Journal of Agricultural Engineering.** 23(6):91-94. (EI)
- **Yin Juan**, Fei Liangjun, Tian Juncang, Wang Yanfang, Han bingfang, Zhang Xueke, Mian Shaoping. 2005, Advances in Nitrogen Fertilizer Loss in Paddy Fields. **Journal of Agricultural Engineering.** 21(6):189-191. (EI)