



INSTITUTE OF AGRICULTURAL RESOURCES  
AND REGIONAL PLANNING , CAAS

## Du Xinzhong



Professor



Ph.D. Supervisor



86-15010513174



duxinzhong@caas.cn



Innovation Team of Non-point Source Pollution Control, IARRP,  
CAAS



Dongpei Building, 12 Zhongguancun Nandajie Street, Haidian  
District, Beijing, China

### Research Interests

- Watershed hydrology and non-point pollution modeling
- Watershed biogeochemical cycle modeling
- Non-point source pollution control

### Publication

**Hydro-climate and biogeochemical processes control watershed organic carbon inflows: Development of an in-stream organic carbon module coupled with a process-based hydrologic model**, Science of The Total Environment, 2020, DOI: 10.1016/j.scitotenv.2020.137281

**Integrating terrestrial and aquatic processes toward watershed scale modeling of dissolved organic carbon fluxes**, Environmental Pollution, 2019, DOI: 10.1016/j.envpol.2019.03.014

**Incorporation of the equilibrium temperature approach in a Soil and Water Assessment Tool hydroclimatological stream temperature model**, Hydrology and Earth System Sciences, 2018, DOI: 10.5194/hess-22-2343-2018

**Integrating organic chemical simulation module into SWAT model with application for PAHs simulation in Athabasca oil sands region, western Canada**, Environmental modeling & software, 2019, DOI: 10.1016/j.envsoft.2018.10.011



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**Assessing climate change impacts on stream temperature and its implications in Athabasca River Basin using SWAT equilibrium temperature model**, Science of the Total Environment, 2019,  
DOI: 10.1016/j.scitotenv.2018.09.344