

导师简介

姓名	王云霏	性别	男	出生年月	1993.10	
职称	副教授	民族	汉	籍贯	山东 滨州	
电子邮箱	yunfei_wang@zzu.edu.cn		最终学位	博士		
学术头衔/兼职	中国自然资源学会水资源专委会委员 河南省自然资源学会水资源专委会副秘书长					
研究方向	农业水利学/生态水文学（农田水碳通量观测与模拟）					
主要学习科研和工作经历	<p>2024.03 至今 University of Twente 公派博士后</p> <p>2024.01 至今 郑州大学 副教授</p> <p>2022.08 - 2023.12 郑州大学 讲师</p> <p>2020.06 - 2022.06 西北农林科技大学 农业资源与环境 博士后</p> <p>2018.10 - 2020.03 University of Twente Netherlands 联合培养</p> <p>2014.09 - 2020.06 西北农林科技大学 农业水土工程 博士</p> <p>2010.09 - 2014.06 西北农林科技大学 农业水利工程 学士</p>					
代表性科研成果	<p>一、代表性科研项目</p> <p>[1] 国家自然科学基金-青年项目，项目名称：基于植物水力性状的日光诱导叶绿素荧光发射机制及模拟研究，批准号：42105119，起止时间：2022.01-2024.12。主持</p> <p>[2] 国家自然科学基金-面上项目，项目名称：作物水分传输阻力及其通量对水分亏缺的响应机制研究，批准号：51879223，起止时间：2019.01-2022.12。参与</p> <p>二、代表性论著</p> <p>[1] Yunfei Wang; Huanjie Cai; Lianyu Yu; Xiongbiao Peng; Jiatun Xu; Xiaowen Wang; Evapotranspiration partitioning and crop coefficient of maize in dry semi humid climate regime, <i>Agricultural water management</i>, 2020, 236(106164).</p> <p>[2] Yunfei Wang; Yijian Zeng; Lianyu Yu; Peiqi Yang; Christiaan Van der Tol; Qiang Yu; Xiaoliang Lü; Huanjie Cai; Zhongbo Su ; Integrated modeling of canopy photosynthesis, fluorescence, and the transfer of energy, mass, and momentum in the soil–plant–atmosphere continuum (STEMMUS–SCOPE v1.0.0), <i>Geoscientific model development</i>, 2021, 14: 1379-1407.</p> <p>[3] Yunfei Wang; Yufeng Zou; Huanjie Cai; Yijian Zeng; Jianqiang He; Lianyu Yu; Chao Zhang; Qaisar Saddique; Xiongbiao Peng; Kadambot H.M. Saddique; Qiang Yu; Zhongbo Su; Seasonal variation and controlling factors of evapotranspiration over dry semi-humid cropland in Guanzhong Plain, China, <i>Agricultural water management</i>, 2022, 259.</p> <p>[4] Xiongbiao Peng; Jing Ma; Huanjie Cai[*]; Yunfei Wang[*]; Carbon balance and controlling factors in a summer maize agroecosystem in the Guanzhong Plain, China, <i>Journal of the Science of Food and Agriculture</i>, 2022, 103(1).</p>					

- [5] Xiongbiao Peng; Xuanang Liu; **Yunfei Wang***; Huanjie Cai*; Evapotranspiration Partitioning and Estimation Based on Crop Coefficients of Winter Wheat Cropland in the Guanzhong Plain, China, *Agronomy*, 2023, 13(12): 2982.
- [6] Liu Xuanang, Peng Xiongbiao, Li Yao, Gu Xiaobo, Yu Lianyu, **Wang Yunfei***, & Cai Huanjie. Environmental influences on evapotranspiration in wheat-maize rotation systems under diverse hydrological regimes in the Guanzhong Plain, China. *Agricultural Water Management*, 2024, 306
- [7] Peng Xiongbiao, Liu Xuanang, Zhang Qianhui, Gu Xiaobo, **Wang Yunfei***, & Cai Huanjie. The Controlling Effects of Leaf Area Index on Soil Respiration and Total Ecosystem Respiration Over Summer Maize/Winter Wheat Cropland in the Guanzhong Plain, China. *Journal of Soil Science and Plant Nutrition*, 2024, 24, 2734-2747
- [8] Zeng Yijian, Verhoef Anne, Vereecken Harry, Ben-Dor Eyal, Veldkamp Tom, Shaw Liz, Van Der Ploeg Martine, **Wang Yunfei**, & Su Zhongbo. Monitoring and Modeling the Soil-Plant System Toward Understanding Soil Health. *Reviews of Geophysics*, 2025, 63.
- [9] Yang Jingjing, Lu Xiaoliang, Liu Zhunqiao, Tang Xianhui, Yu Qiang, & **Wang Yunfei***. Atmospheric drought dominates changes in global water use efficiency. *Science of The Total Environment*, 2024, 934, 173084.
- [10] Tang Enting, Zeng Yijian, **Wang Yunfei**, Song Zengjing, Yu Danyang, Wu HY, Qiao Chengling, van der Tol Christiaan, Du Lingtong, & Su Zhongbo. Understanding the effects of revegetated shrubs on fluxes of energy, water, and gross primary productivity in a desert steppe ecosystem using the STEMMUS-SCOPE model. *Biogeosciences*, 2024, 21, 893-909.

三、其他代表性成果

- [1] **王云霏**; 基于能量、质量、动量平衡的陆地生态系统过程模拟软件 [简称: STEMMUS-SCOPE], 2021SR1501506, 原始取得, 全部权利, 2019-2-1. (软件著作权)
- [2] **王云霏**(1/5); “MAP 杯”中国数智农业大赛墒情预测一等奖, 中化集团, 其他, 其他, 2023(王云霏; 宋增晶; 余丹阳; 韩倩倩; 汤恩婷). (竞赛奖励)
- [3] **Yunfei Wang**; Yijian Zeng; Fakhreh (Sarah) Alidoost; Zengjing Song; Danyang Yu; Enting Tang; Qianqian Han; Retsios Bas; Girgi Serkan; Christiaan van der Tol; Zhongbo (Bob) Su ; STEMMUS-SCOPE for PLUMBER2: Understanding Water-Energy-Carbon Fluxes with a Physically Consistent Dataset Across the Soil-Plant-Atmosphere Continuum, European Geosciences Union General Assembly 2023, 维也纳, 2023-4-23 至 2023-4-28. (会议报告)
- [4] **Yunfei Wang**; Zhongbo Su; Yijian Zeng; Qiting Zuo; 基于土壤-植物-大气连续体(SPAC)陆地生态系统水碳通量模拟研究, 第四届水文科学知识创新与发展中国国家实践国际会议, 郑州, 2023-11-7 至 2023-11-8. (会议报告)
- [5] **王云霏**; 苏中波; 曾亦键; 左其亭; 基于土壤-植物-大气连续体 (SPAC) 的陆地生态系统水碳通量模拟, 第三届中国生态水文论坛, 北京林业大学, 2023-7-14 至 2023-7-17. (会议报告)
- [6] **Yunfei Wang**; Integrated Enhanced Canopy Radiative Transfer and Soil Water Dynamics Improved the Simulation of Terrestrial Ecosystem Functioning, AGU Fall Meeting 2021, New Orleans, 2021-12-12 至 2021-12-17. (会议报告)