

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	
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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	2024.03 至今	University of Twente	博士后			
	2024.01 至今	郑州大学	副教授			
	2022.08 - 2023.12	郑州大学	讲师			
	2021.02 - 2025.09	University of Twente	水资源管理	博士		
	2020.06 - 2022.06	西北农林科技大学	农业资源与环境	博士后		
	2018.10 - 2020.03	University of Twente	Netherlands	联合培养		
	2014.09 - 2020.06	西北农林科技大学	农业水土工程	博士		
	2010.09 - 2014.06	西北农林科技大学	农业水利工程	学士		
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>[1] 河南省高层次人才国际化培养项目，项目名称：陆地生态水文数字孪生研究，批准号：GCC2026004，起止时间：2026.01-2026.12。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; Yijian Zeng; Fakhreh Alidoost; Bart Schilperoort; Zengjing Song; Danyang Yu; Enting Tang; Qianqian Han; Zhunqiao Liu; Xiongbiao Peng; Chao Zhang; Bas Retsios; Serkan Girgin; Xiaoliang Lü; Qiting Zuo; Huanjie Cai; Qiang Yu; Christiaan van der Tol, Zhongbo Su. A physically consistent dataset of water-energy-carbon fluxes across the Soil-Plant-Atmosphere Continuum. <i>Scientific Data</i>, 2025, 12: 1146.</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; 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>[4] 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>					

- [5] **Yunfei Wang**, Exploring terrestrial eco-hydrological processes from bottom-up and top-down perspectives. University of Twente, Faculty of Geo-Information Science and Earth Observation (ITC), 2025, Enschede.
- [6] Yijian Zeng; Anne Verhoef; Harry Vereecken; Eyal Ben-Dor; Tom Veldkamp; Liz Shaw; Martine van der Ploeg; **Yunfei Wang**; Zhongbo Su. Monitoring and Modeling the Soil-Plant System Toward Understanding Soil Health. *Reviews of Geophysics*, 2025, 63.
- [7] Xuanang Liu; Xiongbiao Peng; Yao Li; Xiaobo Gu; Lianyu Yu; **Yunfei Wang***; Huanjie Cai*. Environmental influences on evapotranspiration in wheat-maize rotation systems under diverse hydrological regimes in the Guanzhong Plain, China. *Agricultural Water Management*, 2024, 306
- [8] Jingjing Yang; Xiaoliang Lu; Zhunqiao Liu; Xianhui Tang; Qiang Yu*; **Yunfei Wang***. Atmospheric drought dominates changes in global water use efficiency. *Science of The Total Environment*, 2024, 934, 173084.
- [9] Xiongbiao Peng; Jing Ma; Huanjie Cai*; **Yunfei Wang***; Carbon balance and controlling factors in a summer maize agroecosystem in the Guanzhong Plain, China, *Journal of the Science of Food and Agriculture*, 2022, 103(1).
- [10] 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.

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)