王飞简介

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| 姓名 | 王飞 | | 性别 | 男 | 出生年月 | 1988.8 | 238289458094493025 |
| 职称 | 助理研究员 | | 民族 | 汉族 | 籍 贯 | 郑州 |
| 电子邮箱 | | wangfei0826@163.com | | | 最终学位 | 博士 |
| **研究方向** | | 岩体力学、地下工程灾变机理、水工混凝土材料性能 | | | | | |
| **主要学习、科研和工作经历** | **一、教育背景**  2016.09–2019.12 中南大学 资源与安全工程学院，岩土工程， 博士  2018.12–2019.12 Nanyang Technological University， CEE 联合培养  2012.09–2015.06 中南大学 资源与安全工程学院， 矿业工程， 硕士  2008.09–2012.06 河南理工大学 能源学院， 采矿工程， 学士   1. **科研和工作经历**   2022.01-至今 郑州大学，助理研究员  2020.01-2021.12 深圳大学，博士后  2015.09-2016.08 河南工程学院，教师 | | | | | | |
| **代表**  **科研**  **成果** | **一、科研项目**  [1] 河南省国际科技合作培育项目（232102520015）, 深部地热开采中水力剪切工程的增透机理及致灾能量预测, 2023-01至 2024-12, 在研, 主持  [2] 河南省博士后科研资助项目, 冻融-载荷耦合下纤维增强地聚合物混凝土物理力学性能及损伤机理研究, 2024-01至2024-12, 在研, 主持  [3] 2024 年度河南省高等学校重点科研项目（24A570008）, 深部地热岩体原位孔隙结构及压裂渗透特性研究, 2024-01至2025-12, 在研, 主持  [4] 广东深地科学与地热能开发利用重点实验室开放基金 (DESGEEU-2023-4), 温压效应下水力诱发裂隙剪切滑移机理及能量响应, 2024-01至2025-12, 在研, 主持  [5] 石油天然气装备教育部重点实验室开放基金(OGE202302-03), 深部地热岩体原位孔隙结构及压裂渗透特性研究, 2024-01至2025-12, 主持，在研  [6] 中国博士后科学基金会面上项目(2020M682882), 温压效应下深部饱水岩体断裂破坏机理及渗流行为研究, 2020-10至2021-12, 结题, 主持  [7] 广东省基础与应用基础研究基金委员会(2020A1515110468) , 区域联合基金-青年基金项目,水热力耦合下地热岩体渗透特性及压裂机理的温压效应研究, 2020-10至2021-12, 结题, 主持  **二、代表性论文**   1. **Fei Wang**, Heping Xie, Changtai Zhou, Zhihe Wang, Cunbao Li. Combined effects of fault geometry and roadway cross-section shape on the collapse behaviors of twin roadways: An experimental investigation, Tunnelling and Underground Space Technology 137 (2023) 105106. 2. **Fei Wang**, Peng Zhang, Kaihui Li, Cong Wang, Pengfei Cui. Mechanical and fracture characteristics of single tunnel under the induced effect of a key joint. Archives of Civil and Mechanical Engineering, (2023) 23:206. 3. Tao Dong, Ju Wang, Weiming Gong\*, **Fei Wang\***, Hongguang Lin, Wengbo Zhu. Crack coalescence mechanism and crack type determination model based on the analysis of specimen apparent strain field data, Rock Mechanics and Rock Engineering, 2024. https://doi.org/10.1007/s00603-023-03750-0. 4. Peng Zhang, Yaowen Sun, Zhenhui Guo, Jian Hong, **Fei Wang\***. Strengthening mechanism of polyvinyl alcohol fibers on mechanical properties of geopolymer concrete subjected to a wet-hot-salt environment, Polymer Testing 127 (2023) 108199. 5. Peng Zhang, Cong Wang, Zhenhui Guo, Jian Hong, **Fei Wang\***. Effect of polyvinyl alcohol fibers on mechanical properties of nano-SiO2-reinforced geopolymer composites under a complex environment. Nanotechnology Reviews 2023; 12: 20230142. 6. Peng Zhang, Cong Wang, **Fei Wang\***, Peng Yuan. Influence of sodium silicate to precursor ratio on mechanical properties and durability of the metakaolin/fly ash alkali-activated sustainable mortar using manufactured sand. Reviews on Advanced Materials Science (2023) 62: 20220330. 7. Tao Dong, Ping Cao, **Fei Wang\***, Ziyang Zhang, Feng Xiao. Strain field evolution and crack coalescence mechanism of composite strength rock-like specimens with sawtooth interface. Theoretical and Applied Fracture Mechanics. 126 (2023) 103947 8. Zhizhen Liu, Ping Cao, Qingxiong Zhao, Rihong Cao, **Fei Wang\***. Deformation and damage properties of rock-like materials subjected to multi-level loading-unloading cycles. Journal of Rock Mechanics and Geotechnical Engineering 15 (2023) 1768-1776. 9. Changtai Zhou , Heping Xie, Jianbo Zhu, Zhihe Wang, Cunbao Li, **Fei Wang\***. Mechanical and Fracture Behaviors of Brittle Material with a Circular Inclusion: Insight from Infilling Composition. Rock Mechanics and Rock Engineering. (2022) 55:3331-3352 10. Zhizhen Liu, Ping Cao, Kaihui Li, **Fei Wang\***, Tao Dong. Fracture analysis of central-flawed rock-like specimens under the influence of coplanar or non-coplanar edge flaws. Bulletin of Engineering Geology and the Environment 2022, 81, 61. 11. Peng Zhang, Shiyao Wei, Yuanxun Zheng, **Fei Wang\***, Shaowei Hu. Effect of Single and Synergistic Reinforcement of PVA Fiber and Nano-SiO2 on Workability and Compressive Strength of Geopolymer Composites. Polymers, 2022, 14, 3765. 12. **Fei Wang**, Ping Cao, Yixian Wang, Ruiqing Hao, Jingjing Meng, Junlong Shang\*. Combined effects of cyclic load and temperature fluctuation on the mechanical behavior of porous sandstones. Engineering Geology, 2020, 266, 105466. 13. **Fei Wang**, Ping Cao, Changtai Zhou, Cunbao Li, Jiadong Qiu, Zhizhen Liu\*. 2020. Dynamic compression mechanical behavior and damage model of singly-jointed samples. Geomechanics and Geophysics for Geo-Energy and Geo-Resources 6, 71. 14. **Fei Wang**, Ping Cao, Rihong Cao\*, Xinguang Xiong, Ji Hao. 2019. The influence of temperature and time on water-rock interactions based on the morphology of rock joint surfaces. Bulletin of Engineering Geology and the Environment 78, 3385-3394. 15. **王飞**, 高明忠, 邱冠豪, 汪亦显, 周昌台, 王之禾.初始损伤–载荷–冻融作用下红砂岩的孔隙结构及力学特性.工程科学与技术, 2022,54(6):194–203. 16. 郝记,**王飞\***,曹平,刘智振,董涛.遍布节理试样压剪加载下的力学特性及声发射特征研究[J].工程地质报,2021,29(05):1247-1257. | | | | | | |