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教育经历与工作经历

2023.12-至今 武汉理工大学 土木工程 博士后, 助理研究员 合作导师: 徐东升教授
2018.09-2023.12 中南大学 土木工程 硕博连读 导师: 杨小礼教授
2014.09-2018.06 中南大学 土木工程 学士

科研成果介绍

侯传坦, 博士(后), 主持国家自然科学基金青年基金等多项纵向科研项目, 作为科研骨干参与了国家重点基础研究发展计划(973 计划)项目子课题“深长隧道突水突泥多元信息特征与综合预测理论”等重大科研项目, 参与撰写专著 1 部, 担任土木工程领域权威 SCI 期刊 *Tunnelling and Underground Space*、*Computers and Geotechnics*、*International Journal of Geomechanics* 等期刊审稿人。侯传坦基于岩土工程和海洋工程等多学科交叉, 长期专注于复杂地质条件下地下空间结构孕灾机理和稳定性评估的关键理论技术研究。针对复杂工程地质条件下地下工程和岩土工程稳定性分析问题, 近五年以第一或通讯作者在 *Tunnelling and Underground Space*、*Canadian Geotechnical Journal*、*Computers and Geotechnics*、*Geotextiles and Geomembranes*、*International Journal for Numerical and Analytical Methods in Geomechanics* 等国际知名期刊发表 SCI 论文 20 篇, 其中中科院 1 区 Top 期刊 8 篇, JCR-Q1 区 11 篇, JCR-Q2 区 9 篇, h-index 为 9。所主持项目如下:

- [1] 国家自然科学基金青年基金 C 类, 主持
- [2] 国家博士后面上项目, 主持
- [3] 国家资助博士后研究人员计划, 主持
- [4] 湖北省博士后创新人才培养项目, 主持
- [5] 武汉理工大学自主创新基金一等资助, 主持

论文发表(*-通讯作者)

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- [2] Chuantan Hou; Qiuqing Pan*; Tao Xu; Fu Huang; Xiaoli Yang. Three-dimensional tunnel face stability considering slurry pressure transfer mechanisms. *Tunnelling and Underground Space Technology*, 2022, 125, 104524. (JCR Q1, 中科院 1 区 Top)
- [3] Chuantan Hou; Junhao Zhong; Xiaoli Yang*. Three-dimensional stability assessments of a non-circular tunnel face reinforced by bolts under seepage flow conditions. *Tunnelling and Underground Space Technology*, 2023, 131, 104831. (JCR Q1, 中科院 1 区 Top)
- [4] Junhao Zhong, Chuantan Hou*, Siau Chen Chian, Xiaoli Yang. Face stability assessment of tunnels in rock masses considering strength nonlinearity: continuous or discretized mechanism? *Tunnelling and Underground Space Technology*, 2025. (已录用) (JCR Q1, 中科院 1 区 Top)
- [5] Zilong Zhang; Zhengwei Li; Chuantan Hou*; Qiuqing Pan. Required strength of geosynthetic-reinforced soil structures subjected to varying water levels using numeric-based kinematic analysis. *Geotextiles and Geomembranes*, 2023, 51(1), 1-15. (JCR Q1, 中科院 1 区)

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- [8] **Chuantan Hou**; Xiaoli Yang*; Mingfang Liu; Minghui Chen; Zhenyuan Wu; Guihua Long. Stability assessment of a non-circular tunnel face with tensile strength cut-off subject to seepage flows: A comparison analysis. *Computers and Geotechnics*, 2023, 163, 105764. (JCR Q1, 中科院 1 区 Top)
- [9] Junhao Zhong; **Chuantan Hou***; Xiaoli Yang; Three-dimensional face stability analysis of rock tunnels excavated in Hoek-Brown media with a novel multi-cone mechanism. *Computers and Geotechnics*, 2023, 154, 105158. (JCR Q1, 中科院 1 区 Top)
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- [17] Junhao Zhong; Shihe Zhao; Pengqin Wang; **Chuantan Hou***. Tunnel face stability considering the influence of excess slurry pressure. *Sustainability*, 2023, 15(10), 8230. (JCR Q2, 中科院 3 区)
- [18] **Chuantan Hou**; Xiaoli Yang*. Seismic stability of 3D tunnel face considering tensile strength cut-off. *KSCE Journal of Civil Engineering*, 2020, 24, 2232-2243. (JCR Q2, 中科院 4 区)
- [19] **Chuantan Hou**; De Zhou*. Three-dimensional face stability of earth pressure balance shield tunnels considering non-uniform support and semi-open driving mode under seepage conditions. *KSCE Journal of Civil Engineering*, 2022, 26(11), 4815-4828. (JCR Q2, 中科院 4 区)
- [20] **Chuantan Hou**; Hong Liao; Pengqin Wang; Lili Liu; Yongxin Li*. An analytical framework for assessing the tunnel face in unsaturated soils under transient infiltrations and its application. *KSCE Journal of Civil Engineering*, 2022, 26(11), 4851-4862. (JCR Q2, 中科院 4 区)
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