



个人简介(300-500 字)

孟凡震，博士、教授(破格)、博士生导师，山东省泰山学者青年专家、香江学者，山东高校优秀青年创新团队负责人。2015 年博士毕业于中国科学院武汉岩土力学研究所，岩土工程专业(硕博连读)，同年 7 月进入青岛理工大学任教，2018 年-2020 年于香港大学地球科学系从事博士后研究工作(合作导师: Prof. Louis Wong)。曾获中国科学院优秀博士论文、湖北省优秀博士论文、中国科学院院长优秀奖等奖励和荣誉称号。主要从事深部岩体力学方面的研究工作，发表 SCI、EI 收录论文 40 多篇(其中一作或通讯 IF>6 的 11 篇，IF>4 的 16 篇)，论文总被引 1000 余次，中、英文单篇最高被引 154 次和 118 次。两篇论文分别入选 ESI 高被引论文和“领跑者 5000-中国精品科技期刊顶尖学术论文”，担任 20 余个国际期刊审稿人。主持国家自然科学基金 2 项，其他省部级课题 8 项。

工作经历

2015.06-2017.12

青岛理工大学 讲师

2018.01-2019.12

青岛理工大学 副教授

2018.01-2020.01	香港大学地球科学系 博士后、香江学者	
2020.01-至今	青岛理工大学 教授	
研究方向		
(1) 深部硬岩脆性破坏特征、机制与评价 (2) 多场耦合作用下节理剪切行为与声发射前兆信息识别 (3) 断层、节理突然错动滑移诱发岩爆孕育演化机理及预警 (4) 断层力学与诱发地震		
在研纵向课题		
国家自然科学基金面上项目(51879135)	国家基金委	2019.01-2022.12
山东省泰山学者青年专家	山东省委组织部	2020.01-2024.12
山东省高校优秀青年创新团队	山东省科技厅	2020.01-2022.12
山东省重点研发(软科学)计划	山东省科技厅	2019.12-2021.12
所获奖励		
西海岸新区领军人才	青岛西海岸新区	2020
泰山学者青年专家	山东省委组织部	2019
青年人才托举	山东省科协	2018
香江学者	博士后基金会	2017
中科院百篇优秀博士论文	中国科学院	2017
湖北省优秀博士论文	湖北省教育厅	2016
优秀博士论文提名奖	中国岩石力学与工程学会	2016
中科院院长优秀奖	中国科学院	2015
昌华奖学金特别奖	中国科学院武汉分院	2015

北京市高校优秀毕业生	北京市教育委员会	2015
优秀毕业生	中国科学院大学	2015
博士研究生国家奖学金	中国科学院大学	2014
三好学生	中国科学院大学	2012

代表性科研成果

- [1] **Fanzhen Meng**, Louis Ngai Yuen Wong*, Tianyang Guo. Frictional behavior and micro-damage characteristics of rough granite fractures, *Tectonophysics* (in Revision, **IF=3.9**, 地学权威期刊).
- [2] **Fanzhen Meng**, Jie Song, Louis Ngai Yuen Wong*, Zaiquan Wang, Chuanqing Zhang. Characterization of roughness and shear behavior of thermally treated rough granite fractures. *Engineering Geology*, 2021, 293 (**IF=6.75**, 行业 TOP 期刊).
- [3] Louis Ngai Yuen Wong, **Fanzhen Meng***, Hui Zhou, Jin Yu, Guangtan Cheng. Influences of different reference planes on the determination of joint 2D and 3D roughness parameters. *Rock Mechanics and Rock Engineering*, 2021, 54,4393-4406 (**IF=6.73**, 行业 TOP 期刊).
- [4] **Fanzhen Meng**, Louis Ngai Yuen Wong*, Hui Zhou. Review of rock brittleness indices and their applications in different fields of rock engineering. *Journal of Rock Mechanics and Geotechnical Engineering*, 2021, 13(1): 221-247. (**IF=4.33**, 中国科技期刊卓越行动-领军期刊)
- [5] **Fanzhen Meng**, Louis Ngai Yuen Wong*, Hui Zhou, Zaiquan Wang, Liming Zhang. Asperity degradation characteristics of soft rock-like fractures under shearing based on acoustic emission monitoring. *Engineering Geology*, 2020, 266(5): 1-14. (**IF=6.75**, 行业 TOP 期刊)
- [6] Louis Ngai Yuen Wong, **Fanzhen Meng***, Tianyang Guo, Xiangchao Shi. The Role of Load Control Modes in Determination of Mechanical Properties of Granite. *Rock Mechanics and Rock Engineering*, 2020, 53, 539–5522. (**IF=6.73**, 行业 TOP 期刊)
- [7] **Fanzhen Meng**, Louis Ngai Yuen Wong*, Hui Zhou. Power law relations in earthquakes from microscopic to macroscopic scales. *Scientific Reports*, 2019, 10705, 1-11. (**IF=4.38**)
- [8] **Fanzhen Meng**, Louis Ngai Yuen Wong*, Hui Zhou, Jin Yu, Guangtan Cheng. Shear Rate Effects on the Post-peak Shear Behaviour and Acoustic Emission Characteristics of Artificially Split Granite Joints. *Rock Mechanics and Rock Engineering*, 2019, 52(7),

2155-2174. (IF=6.73, 行业 TOP 期刊)

- [9] **Fanzhen Meng**, Louis Ngai Yuen Wong*, Hui Zhou, et al. Comparative study on dynamic shear behavior and failure mechanism of two types of granite joint. *Engineering Geology*, 2018, 245(1), 356-369. (IF=6.75, 行业 TOP 期刊)
- [10] **Fanzhen Meng**, Hui Zhou*, Zaiquan Wang, et al. Characteristics of asperity damage and its influence on the shear behavior of granite joints. *Rock Mechanics and Rock Engineering*, 2018, 51 (2):429-449. (IF=6.73, 行业 TOP 期刊)
- [11] **Fanzhen Meng***, Hui Zhou, Zaiquan Wang, et al. Experimental study of factors affecting fault slip rockbursts in deeply buried hard rock tunnels. *Bulletin of Engineering Geology and the Environment*, 2017, 76(3): 1167-1182. (IF=4.30)
- [12] **Fanzhen Meng**, Hui Zhou*, Zaiquan Wang, Liming Zhang, Liang Kong, Shaojun Li, Chuanqing Zhang. Influences of shear history and infilling on the mechanical characteristics and acoustic emissions of joints. *Rock Mechanics and Rock Engineering*, 2017, 50 (8): 2039-2057. (IF=6.73, 行业 TOP 期刊)
- [13] **Fanzhen Meng**, Hui Zhou*, Zaiquan Wang, Liming Zhang, Liang Kong, Shaojun Li, Chuanqing Zhang. Experimental study on the prediction of rockburst hazards induced by dynamic structural plane shearing in deeply buried hard rock tunnels. *International Journal of Rock Mechanics and Mining Sciences*, 2016, 86: 210-223. (IF=7.1, 行业 TOP 期刊)
- [14] **Fanzhen Meng**, Hui Zhou*, Shaojun Li, Chuanqing Zhang, Zaiquan Wang, Liang Kong, Liming Zhang. Shear behaviour and acoustic emission characteristics of different joints under various stress levels. *Rock Mechanics and Rock Engineering*, 2016, 49 (12): 4919–4928. (IF=6.73, 行业 TOP 期刊)
- [15] **Fanzhen Meng**, Hui Zhou*, Chuanqing Zhang, Rongchao Xu, and Jingjing Lu. Evaluation methodology of brittleness of rock based on post-peak stress-strain curves. *Rock Mechanics and Rock Engineering*, 2015, 48(5):1787-1805. (IF=6.73, 行业 TOP 期刊)
- [16] Hui Zhou, **Fanzhen Meng***, Chuanqing Zhang, Dawei Hu, Fanjie Yang, and Jingjing Lu. Analysis of rockburst mechanism induced by structural plane in deep tunnels. *Bulletin of Engineering Geology and the Environment*, 2015, 74(4): 1435-1451. (IF=4.30)
- [17] Hui Zhou, **Fanzhen Meng***, Chuanqing Zhang, Dawei Hu, Jingjing Lu, and Rongchao Xu. Investigation of the acoustic emission characteristics of artificial saw-tooth joints under different experimental conditions. *Acta Geotechnica*, 2016, 11(4): 925-939. (IF=5.86)
- [18] Yahui Zhang, Louis Ngai Yuen Wong*, **Fanzhen Meng**. Simulation and quantification of stress-induced local fracturing in brittle rock, *Engineering Geology*, 2021,106025

(IF=6.75, 行业 TOP 期刊).

- [19]Liming Zhang, Yu Cong*, **Fanzhen Meng**, et al. Energy evolution analysis and failure criteria for rock under different stress paths, *Acta Geotechnica*, 2021, (16): 569–580. (IF=5.86)
- [20]Hui Zhou, Jun Chen, Jingjing Lu, Yue Jiang, **Fanzhen Meng**. A New Rock Brittleness Evaluation Index Based on the Internal Friction Angle and Class I Stress–Strain Curve. *Rock Mechanics and Rock Engineering*, 2018, 51(7), 2309-2316. (IF=6.73, 行业 TOP 期刊)
- [21]Shanchao Hu, Yunliang Tan, Hui Zhou, Weiyao Guo, Dawei Hu, **Fanzhen Meng**, Zhigang Liu. Impact of Bedding Planes on Mechanical Properties of Sandstone, *Rock Mechanics and Rock Engineering*, 2017, 50 (8): 2243-2251. (IF=6.73, 行业 TOP 期刊)
- [22]Shaojun Li, Hui Gao, Demin Xu, **Fanzhen Meng**. Comprehensive determination of reinforcement parameters for high cut slope based on intelligent optimization and numerical analysis, *Journal of Earth Sciences*, 2012, 23(2):233-242.
- [23]Fanjie Yang, Hui Zhou, Chuanqing Zhang, Dawei Hu, JingJing Lu, **Fanzhen Meng**. An elastoplastic coupling mechanical model for hard and brittle marble with consideration of the first stress invariant effect. *European Journal of Environmental and Civil Engineering*, 2016: 1-24.

专利

- [1] 孟凡震、宋杰、王在泉、张黎明、王肖珊、丛宇、李凯 一种用于制作不同粗糙度岩石节理的装置及方法 202010684666.9 2020.7.1
- [2] 孟凡震、宋杰、王在泉、张黎明、王肖珊、于立夫 劈裂形成多角度岩石节理面的模具及节理试样制作方法 202010684869.8 2020.7.16
- [3] 孟凡震、宋杰、王在泉、张黎明、丛宇、王肖珊、李凯 基于声发射监测的硬岩节理面突然错动失稳预警方法 202011093221.X 2020.10.14
- [4] 孟凡震、宋杰、岳祝凤、周雄、王肖珊、王在泉 一种岩石节理面剪切破坏后的原位保真方法 202011212868.X 2020.11.4
- [5] 孟凡震、宋杰、王在泉、岳祝凤、周雄、张黎明、李凯 一种用于室内岩石力学试验的声发射探头固定装置及方法 202011391013.8, 2020.12.2
- [6] 孟凡震、宋杰、周雄、岳祝凤、王在泉、张黎明、王肖珊 一种高温高压条件下岩石节理面的剪切试验系统及方法 202011400819.9 2020.12.2

学术兼职

山东省岩石力学与工程学会理事

中国岩石力学与工程学会会员

审稿人

- [1] Rock Mechanics and Rock Engineering
- [2] Tunneling and Underground Space Technology
- [3] Engineering Geology
- [4] Bulletin of Engineering Geology and the Environment
- [5] Journal of Rock Mechanics and Geotechnical Engineering
- [6] International Journal of Rock Mechanics and Mining Sciences
- [7] International Journal of Mining Sciences and Technology
- [8] European Journal of Environmental and Civil Engineering
- [9] Arabian Journal of Geosciences
- [10] Advances in Civil Engineering
- [11] Géotechnique Letters
- [12] Geosciences
- [13] Geofluid
- [14] The Journal of Geophysics and Engineering
- [15] Journal of Nondestructive Evaluation
- [16] Journal of Mountain Science
- [17] Journal of Geophysics and Engineering
- [18] Geotechnical and Geological Engineering
- [19] Earth Sciences Research Journal
- [20] Energies
- [21] Energy Science & Engineering

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招生信息

硕士招生	力学（理学院）；土木工程（土木工程学院）
博士招生	岩土工程（土木工程学院）
欢迎土木类、工程力学类、地质类、矿业类等勤奋好学的本科生、硕士生联系报考！	