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1. Brief Information 基本信息

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民族：汉族

出生日期：1984/10/26

政治面貌：共产党员

毕业院校：日本国立九州大学

最高学位：工学博士

研究领域：a) 岩土工程勘察；b) 岩石力学与地球物理效应监测；c) 城市地下工程灾害预测与防治；d) 隧道灾害超前探测；e) 路桥桩基无损检测；f) 管线探测；g) 微震与声发射；h) 矿井物探。

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b) 日本福岡県福岡市西区元岡744番地九州大学工学部地球資源システム工学部岩盤研究室W2-603-2，819-0395

2. Personal Sketch 个人简述

张明伟，日本国立九州大学地球资源系统工程博士，中国矿业大学力学与土木工程学院副教授，深部岩土力学与地下工程国家重点实验室副研究员，岩土工程硕士研究生导师。从事岩土工程勘察、岩石力学与地球物理效应监测、城市地下工程灾害预测与防治、隧道灾害超前探测、路桥桩基无损检测、管线探测、微震与声发射、矿井物探等方面的科学研究。主持了国家自然科学基金青年基金项目、中国博士后科学基金面上项目、中国博士后国际交流计划派出项目、贵州省科技厅重大科技专项项目、中国矿业大学青年科技基金、深部岩土工程重专项项目等；作为骨干人员参与了“十三五”国家重点研发计划、国家自然科学基金联合基金项目、企业单位重大科技开发项目等。参与研制了深部地下工程动力灾害智能监测诊断系统，研发了多通道局域矢量微震监测系统、煤矿围岩裂隙监测分析系统、多通道声发射监测系统、高蓄能定位定向主动震源激励炮、多通道深埋电缆管线定位定深检测系统等多台套实验仪器和勘测装备。在《International Journal of Rock Mechanics and Mining Sciences》、《Rock Mechanics and Rock Engineering》等行业高水平期刊发表SCI论文16篇，其中以第一及通讯作者论文12篇；申请发明专利2项，出版英文专著3部，参加在日本福岡、印度尼西亚万隆、印度那格浦尔、日本冲绳、瑞士洛桑等国家和地区组织的国际学术会议10余次。曾对日本AIST产业技术综合研究所、日本筑波大学、印度环境工程科学研究院、印度尼西亚万隆科技学院等高校和科研机构进行学术访问。现为国际岩石力学学会日本委员会会员。

3. Education Experience 教育经历

2011.10 - 2014.09 日本九州大学Kyushu University地球资源系统工程博士

(2011.10 - 2014.09) 博士阶段(地球物理)

2008.07 - 2011.10 中国矿业大学采矿工程硕博连读

(2010.07 - 2011.10) 博士阶段(地球物理)

(2008.07 - 2010.07) 硕士阶段(采矿工程)

2004.09 - 2008.07 中国矿业大学采矿工程学士

(2006.07 - 2008.07) 采矿工程

(2004.09 - 2006.07) 工业工程

4. Work Experience 工作经历

2019.01 - Now 中国矿业大学 深部岩土力学与地下工程国家重点实验室副研究员 岩土工程硕导

2018.10 - Now 日本九州大学 & 日本産業技術総合研究所(AIST) 博士后

2017.10 - Now 中国矿业大学 矿业工程学院 博士后

2014.11 - 2018.12 中国矿业大学 深部岩土力学与地下工程国家重点实验室助理研究员 岩土工程硕导

5. Research Projects 科研项目

纵向项目：

1) 贵州省科技厅重大科技专项项目，黔科合重大专项字[2018]3003-2，瓦斯、水体等危险区域智能识别技术研究与应，2018/01-2019/12，85万，在研，主持

- 2) 中国博士后科学基金国际交流计划派出项目, 20180059, Dissipation and attenuation mechanism of microseismic energy in deep coal and rock mass and application to regional prediction of dynamic disasters, 2018/10-2020/10, 60万, 在研, 主持
- 3) 中国博士后科学基金面上项目, 2018M630635, 深部煤岩微震能量耗散衰减机制与灾害区域预测研究, 2018/05-2020/05, 8万, 在研, 主持
- 4) 国家自然科学基金青年项目, 51504237, 微震波在受载岩体内传播的能量耗散机制与衰减特性研究, 2016/01-2018/12, 21万, 已结题, 主持
- 5) 中国矿业大学深部岩土国重专项项目, Z16006, 深部工程扰动超前预报动力灾害关键技术研究, 2016/01-2018/12, 90万, 已结题, 主持
- 6) 中国矿业大学校本科研业务费项目, 2015QNA62, 深井覆岩微震波能消耗散特性及源能核算方法研究, 2015/01-2017/12, 10万, 已结题, 主持
- 7) 中国矿业大学深部岩土国重专项项目, Z15004, 深部岩体微震波能消耗散衰减与波阻抗特性分析, 2015/01-2015/12, 20万, 已结题, 主持
- 8) “十三五”国家重点研发计划项目, 2016YFC0600902, 注浆效果震电磁三场耦合高精度检测技术研究, 2016/07-2020/12, 30万, 在研, 参加
- 9) 国家自然科学基金面上项目, 41877277, 废弃盐穴中压缩空气蓄能薄互层状顶板密闭性基础研究, 2019/01-2022/12, 61万, 在研, 参加
- 10) 国家自然科学基金青年项目, 51704277, 跨尺度复合浆材改性松散煤体的渗流及固结机理研究, 2018/01-2020/12, 25万, 在研, 参加
- 11) 国家自然科学基金联合项目, 51174285, 采动动载对煤巷锚网支护结构稳定性损伤机理研究, 2012/01-2014/12, 45万, 已结题, 参加横向项目:

- 1) 采煤机智能识别煤岩关键技术与应用研究, 201824001601, 50万, 在研, 主持
- 2) 徐州市城市轨道交通3号线焦山河桥大埋深桩基长度探测技术研究, 2018240039, 11.5万, 已结题, 主持
- 3) 徐州市城市轨道交通2号线一期工程建国路站深埋强电管线探测技术研究, 2018240038, 34.3万, 已结题, 主持
- 4) 徐州市城市轨道交通1号线一期工程散射地震探查研究, 2018240037, 49.8万, 已结题, 主持

6. Papers Publishing 论文发表

学术论文:

- [1] Mingwei Zhang*, Shengdong Liu, Hideki Shimada. Regional Hazard Prediction of Rock Bursts Using Microseismic Energy Attenuation Tomography in Deep Mining. *Natural Hazards*, 2018, 93(3): 1359-1378. (SCI)
- [2] Mingwei Zhang*, Qingbin Meng, Shengdong Liu, Deyu Qian, Nong Zhang. Impacts of Cyclic Loading and Unloading Rates on Acoustic Emission Evolution and Felicity Effect of Instable Rock Mass. *Advances in Materials Science and Engineering*, 2018. (SCI)
- [3] Mingwei Zhang*, Shengdong Liu, Shuzhao Chen, Yanlong Chen, Guang Xu, Deyu Qian. Focus Energy Determination of Mining Microseisms Using Residual Seismic Wave Attenuation in Deep Coal Mining. *Shock and Vibration*, 2018. (SCI)
- [4] Mingwei Zhang*, Qingbin Meng, Shengdong Liu. Energy Evolution Characteristics and Distribution Laws of Rock Materials under Triaxial Cyclic Loading and Unloading Compression. *Advances in Materials Science and Engineering*, 2017. (SCI)
- [5] Mingwei Zhang*, Qingbin Meng, Shengdong Liu, Hideki Shimada. A Synthetic Solution for Identification and Extraction of the Effective Microseismic Wave Component Using Decomposition on Time, Frequency, and Wavelet Coefficient Domains. *Shock and Vibration*, 2017. (SCI)
- [6] Qingbin Meng, Mingwei Zhang*, Lijun Han, Hai Pu, Yanlong Chen. Acoustic Emission Characteristics of Red Sandstone Specimens Under Uniaxial Cyclic Loading and Unloading Compression, *Rock Mechanics and Rock Engineering*, 2018, 51(4): 969-988
- [7] Qingbin Meng, Mingwei Zhang*, Zhizhen Zhang, Lijun Han, Hai Pu. Experimental Research on Rock Energy Evolution under Uniaxial Cyclic Loading and Unloading Compression. *Geotechnical Testing Journal*, 2018, 41(4). (SCI)
- [8] Qingbin Meng, Mingwei Zhang*, Lijun Han, Hai Pu, Yanlong Chen. Experimental Research on the Influence of Loading Rate on the Mechanical Properties of Limestone in a High-Temperature State, *Bulletin of Engineering Geology and the Environment*, 2018, 1-14
- [9] Qingbin Meng, Mingwei Zhang*, Lijun Han, Hai Pu, Taoyi Nie. Effects of Acoustic Emission and Energy Evolution of Rock Specimens Under the Uniaxial Cyclic Loading and Unloading Compression, *Rock Mechanics and Rock Engineering*, 2016, 49(10): 3873-3886
- [10] Qingbin Meng, Mingwei Zhang*, Lijun Han, Hai Pu, Hao Li. Effects of size and strain rate on the mechanical behaviors of rock specimens under uniaxial compression. *Arabian Journal of Geosciences*, 2016, 9(8), 527. (SCI)
- [11] Jianbo Wu, Enyuan Wang, Xuekun Ren, Mingwei Zhang. Size Effect of Concrete Specimens on the Acoustic Emission Characteristics under Uniaxial Compression Conditions. *Advances in Materials Science and Engineering*, 2017. (SCI)
- [12] Deyu Qian, Nong Zhang, Mingwei Zhang, Hideki Shimada, Peng Cao, Yanlong Chen, Kai Wen, Sen Yang, Nianchao Zhang. Application and Evaluation of Ground Surface Pre-Grouting Reinforcement for 800-m-deep Underground Opening Through Large Fault Zones. *Arabian Journal of Geosciences*, 2017, 10:285. (SCI)
- [13] Yanlong Chen, Bangyong Yu, Kai Zhang, Mingwei Zhang, Guang Xu, Zhanqing Chen. Permeability Evolution and Particle Size Distribution of Saturated Crushed Sandstone under Compression. *Geofluids*, 2018. (SCI)
- [14] Mingwei Zhang*, Hideki Shimada, Takashi Sasaoka, Kikuo Matsui, Linming Dou. Evolution and effect of the stress concentration and rock failure in the deep multi-seam coal mining, *Environmental Earth Sciences*, 2014, 72(3): 629-643. (SCI)
- [15] Mingwei Zhang*, Hideki Shimada, Takashi Sasaoka, Kikuo Matsui, Linming Dou. Seismic energy distribution and hazard assessment in underground coal mines using statistical energy analysis, *International Journal of Rock Mechanics and Mining Sciences*, 2013, 64, 192-200. (SCI)
- [16] Mingwei Zhang*, Takashi Sasaoka, Hideki Shimada, Kikuo Matsui. Comparison of optimal basis function for the underground microseismic wave processing in wavelet packet transform, *Memoirs of the Faculty of Engineering, Kyushu University*, 2013, 73(3), 71-85. (EI)
- [17] Mingwei Zhang*, Takashi Sasaoka, Hideki Shimada, Kikuo Matsui. Lateral stress concentration in localized interlayer rock stratum and the impact on deep multi-seam coal mining, *International Journal of Geosciences*, 2013, 4(9), 1248-1255.

会议论文:

- [1] Mingwei Zhang, Shengdong Liu, Deyu Qian, Hideki Shimada, Takashi Sasaoka. Determination of Microseismic Focus Energy using Residual Seismic Wave Attenuation in Deep Rock Stratum, *Proceedings of 14th International Symposium on Earth Science and Technology*, December 8-9, 2016, Fukuoka, Japan.

[2] Mingwei Zhang, Shengdong Liu, Yanlong Chen, Hideki Shimada. Precise Identification and Extraction of Effective Microseismic Wave Components: A Case Study on the Tri-domain Decomposition Analysis, Proceedings of 13th International Symposium on Earth Science and Technology, December 3-5, 2015, Fukuoka, Japan.

[3] Mingwei Zhang, Takashi Sasaoka, Hideki Shimada, Kikuo Matsui. Mechanism of localized stress concentration in interlayer rock mass and its impact on deep multi-seam mining, Proceedings of 11th International Symposium on Earth Science and Technology, December 3-5, 2013, Fukuoka, Japan.

[4] Mingwei Zhang, Takashi Sasaoka, Hideki Shimada, Kikuo Matsui. Numerical quantitative analysis on the effect of deep protective mining induced by coal thickness and rock properties, Proceedings of 10th International Symposium on Novel Carbon Resource Sciences, December 2, 2013, Fukuoka, Japan

[5] Mingwei Zhang, Takashi Sasaoka, Hideki Shimada, Kikuo Matsui. Optimal wavelet packet basis for remote blasting vibration wave propagating in deep underground country rock, Proceedings of 1st International Conference on Rock Dynamics and Applications, June 6-8, 2013, Lausanne, Switzerland. (EI).

[6] Mingwei Zhang, Takashi Sasaoka, Hideki Shimada, Kikuo Matsui. De-noising processing and feature analysis of remote blasting waves based on the discrete wavelet transform, Proceedings of 13th Japan Symposium on Rock Mechanics & 6th Japan Korea Joint Symposium, January 9-11, 2013, Okinawa, Japan.

[7] Mingwei Zhang, Takashi Sasaoka, Hideki Shimada, Kikuo Matsui. Study on the dynamic failure mechanism in underground protective mining by infinitesimal units, Proceedings of 9th International Symposium on Novel Carbon Resource Sciences, November 2-3, 2012, Fukuoka, Japan.

[8] Mingwei Zhang, Takashi Sasaoka, Hideki Shimada, Kikuo Matsui. Application of Discrete Wavelet Transform in De-noising Processing of Remote Blasting Waves, Proceedings of 10th International Symposium on Earth Science and Technology, September 18-19, 2012, Bandung, Indonesia.

[9] Mingwei Zhang, Takashi Sasaoka, Hideki Shimada, Kikuo Matsui, Linming Dou. Discussion to new parameters used for mines' risk classification, Proceedings of 8th International Symposium on Novel Carbon Resource Sciences, December 15-16, 2011, Nagpur, India.

[10] Mingwei Zhang, Takashi Sasaoka, Hideki Shimada, Kikuo Matsui, Linming Dou. A new method to evaluate the risk of rock burst in deep underground mines, Proceedings of 9th International Symposium on Earth Science and Technology, December 6-7, 2011, Fukuoka, Japan.

7. Patent Application 专利申请

1) 张明伟, 刘盛东, 李世宁, 焦国超, 李继伟, 任云, 王奇, 一种标准煤岩样品压裂过程震电磁效应同步监测装置及方法, 2017.01.16, 中国, 201710027944.1

2) 张明伟, 刘盛东, 刘树才, 陈彦龙, 孟庆彬, 高蓄能定位定向主动激励震源炮及使用的方法, 2016.04.12, 中国, 201610222504.7

8. Academic Awards 学术奖励

1) 张明伟 (3/3), Relationship between stress and self-potential of rocks under loading, Cooperative International Network for Earth Science and Technology, Mitsui Matsushima Award, Best Paper, 2018 (杨彩, 刘盛东, 张明伟)

2) 张明伟 (3/4), Advanced Prediction Based on Integrated Geophysical Method in Coal Roadway, Cooperative International Network for Earth Science and Technology, Mitsui Matsushima Award, Best Presentation, 2015 (王勃, 刘盛东, 张明伟, 刘静)

9. Monograph Publication 出版著作

1) 张明伟, 刘盛东, 于庆, 陈彦龙. Application of microseismic focus energy on assessment of rock burst in underground coal mine, 中国矿业大学出版社. 240千字, 2017.11

2) 于庆, 张明伟, 陈彦龙, 陶祥令. Failure characteristics of shaft lining in Eastern Chinese coal mines and its treatment through the application of an underground continuous impervious curtain, 中国矿业大学出版社. 200千字, 2017.10

3) 陈彦龙, 张凯, 张桂民, 于庆, 张明伟. Extraction systems of remaining coal around end-wall slope at open pit coal mines, 中国矿业大学出版社. 200千字, 2017.09

10. Others 其它

1) 2018.10-2020.09: China Postdoctoral Council Fund (CPC)获得者

2) 2011.10-2014.09: China State Scholarship Fund (CSC)获得者