黄发明简历

教育经历

2015/12 - 2016/12，澳大利亚 The University of Newcastle，地质工程，博士联培，合作导师：Jinsong Huang

2013/9 - 2017/7，中国地质大学(武汉)，地质工程，博士，导师：殷坤龙

2011/9 - 2013/7，中国地质大学(武汉)，资源与环境遥感，硕士，导师：田玉刚

2006/9 - 2011/7，太原理工大学，地理信息系统，本科，导师：葛永慧

工作经历

2024/04~至今	南昌大学，学生工作处，挂职副处长
2019/12~至今	南昌大学，工程建设学院，副教授，博士生导师，省青年千人
2019/01~2023/06	南昌大学，力学博士后流动站，博士后，导师：周创兵院士
2017/07～2019/12	南昌大学，工程建设学院，讲师

科研工作简历

近年来，利用 3S 技术、机器学习和数值模拟等方法，从事以下方向的研究：(1) 滑坡成因机制的数值模拟、监测预警和破坏特征识别；(2) 基于 GIS 和机器学习的滑坡易发性预测不确定性；(3) 降雨型滑坡危险性动态评价；(4) 区域人口密度精细评估与人口易损性定量评价；(5) 单体/区域滑坡风险定量评价。主持江西省“双千”青年类创新项目，国家自然科学面上/青年基金各一项，省面上/青年基金及博士后特别资助各一项；作为科研骨干参与若干项国家自然科学基金和省部级基金。

近五年来，在国内外重要期刊上发表滑坡灾害相关的学术论文 90 余篇。目前发表的 SCI 或 EI 学术论文共有 70 来篇：其中第一作者发表 SCI 期刊论文 20 篇，通讯作者发表 SCI 期刊论文 12 篇；以第一或通讯作者录用或发表 EI 期刊论文 14 篇。截止 2024 年 12 月，所发表的学术论文在 Google 数据库中总被引用 5890 次，I-10 指数为 99，H 指数为 40；在 Web of Knowledge 数据库中总被引用 3700 次，且有 8 篇 SCI 入选热点论文和 10 篇 SCI 论文入选高被引。本人在*《岩石力学与工程学报》*发表的关于滑坡易发性预测的论文入选中信所 2020 年度**“全国百篇最具影响国内学术论文”**；两篇中文论文入选**“中国精品科技期刊顶尖学术论文(F5000)”**；本人入选斯坦福大学和爱思唯尔联合发布的**“全球前 2%顶尖科学家”2022～2023 年度影响力榜单**。同时也正在申请 20 来项地灾防治和监测等方面的软件著作权或发明专利。本人所取得的学术成果在滑坡监测与预测、区域滑坡易发性和危险性预测等领域，提供了诸多创新性的理论和技术思路。

在主持的科研项目：

(1) 国家自然科学基金面上项目：多制约因素下的降雨型堆积层滑坡危险性动态评价及其优化方法研究(NO. 42377164)，2024.01~2027.12，主持人。

(2) 国家自然科学基金青年项目：基于孕灾敏感性—有效降雨强度的区域滑坡危险性预警机理研究

(41807285)，2019.01~2021.12，24 万，主持人。

(3) 江西省“双千计划”高端创新青年人才项目：江西省降雨型滑坡风险预警理论及其实践研究(NO.jxsq2019201060)，2020.01-2023.12，主持。

(1) 中国博士后特别资助项目：基于半监督深度学习的多时相滑坡孕灾敏感性预测建模研究 (NO. 2020T130274)，2020.06~2022.12，主持人。

(4) 江西省杰出青年基金项目：降雨-切坡型堆积层滑坡危险性预警理论与优化方法研究 (NO. 20242BAB23052)，2025.01~2027.12，主持人。

(5) 江西省自然科学基金面上项目：滑坡易发性预测的不确定性及其深度学习建模研究(NO. **20232BAB204077**)，2023.06~2025.06，主持人。

(2) 中国博士后科学基金面上项目：县域滑坡敏感性预测的基础环境因子及机器学习建模研究(2019M652287), 2019.05~2021.05，主持人。

科研奖励情况

(1) 第一完成人获江西省自然科学二等奖（1/4），“区域堆积层滑坡成因机制及易发性智能预测方法” 2023 年

教学成果奖

(1) 第 14 届全国大学生创新创业年会　　优秀指导老师　　2021 年

(2) 2022 年江西省“互联网+”大学生创新创业大赛　　银奖(第三指导老师)　　2022 年

(3) 第五届“全国大学生结构设计信息技术大赛”　　特等奖(优秀指导教师)　　2023 年

近五年的重要学术论文成果

(1) ***Faming Huang,*** Haowen Xiong, Shui-Hua Jiang, Chi Yao*, Xuanmei Fan, Filippo Catani, Zhilu Chang, Xiaoting Zhou, Jinsong Huang, Keji Liu. Modelling landslide susceptibility prediction: A review and construction of semi-supervised imbalanced theory [J]. Earth-Science Reviews, 2024, 250:104700. (SCI 中科院一区, IF: 12.1，**High-Cited Paper**)

(2) ***Faming Huang,*** Jun Yan, Xuanmei Fan, Chi Yao*, Jinsong Huang, Wei Chen, Haoyuan Hong. Uncertainty law of landslide susceptibility prediction modelling: effects of different landslide boundaries and spatial shape expressions [J].***Geoscience Frontiers***, 2022, 13(2):101317. (SCI 中科院一区, IF: 6.853, **Hot paper**)

(3) Zizeng Guo, Yu Shi, ***Faming Huang****, Xuanmei Fan, Jinsong Huang. Landslide susceptibility zonation method based on C5.0 decision tree and K-means cluster algorithms to improve the efficiency of risk management [J]. ***Geoscience Frontiers,*** 2021, 12(6):243-261 (SCI 中科院一区, IF: 6.853, **Hot paper**)

(4) ***Faming Huang*****,** Zhou Ye, Jinsong Huang, Shuihua Jiang*; Zhilu Chang. Uncertainty study of landslide susceptibility prediction considering different attribute interval numbers of environmental factors and different data-based models [J]. ***CATENA***, 2021,202(2):105250. (SCI 一区, IF: 5.198, **Hot paper**)

(5) ***Huang Faming*****,** Zhongshan Cao, Jianfei Guo, Shui-Hua Jiang*, Zizeng Guo. Comparisons of heuristic, general statistical and machine learning models for landslide susceptibility prediction and mapping[J], ***CATENA,*** 2020, 191: 104580. (SCI 一区, IF: 5.198, **Hot paper**)

(6) ***Faming Huang***, Siyu Tao, Deying Li, Zhipeng Lian*, Filippo Catani, Jinsong Huang, Kailong Li, Chuhong Zhang. Landslide susceptibility prediction considering neighborhood characteristics of landslide spatial datasets and hydrological slope units using remote sensing and GIS technologies [J]. ***Remote Sensing***. 2022; 14(18):4436. (IF=4.848, **Hot paper**)

(7) Zhilu Chang, Filippo Catani, *Faming Huang**, Gengzhe Liu, Sansar Raj Meena, Jinsong Huang, Chuangbing Zhou. Landslide susceptibility prediction using slope unit-based machine learning models considering the heterogeneity of conditioning factors [J]. *Journal of Rock Mechanics and Geotechnical Engineering*. 2023, 15 (5), 1127-1143. (SCI 一区 TOP, IF=6.498, Hot paper)

(8) ***Faming Huang***, Haowen Xiong, Chi Yao*, Filippo Catani, Chuangbing Zhou, Jinsong Huang. Uncertainties of landslide susceptibility prediction considering different landslide types [J]. ***Journal of Rock Mechanics and Geotechnical Engineering***. 2023, 15(11): 2954-2972. (SCI 一区 TOP, IF=6.498, **Hot paper**)

(9) Li Zhu, Gongjian Wang, ***Faming Huang****, Yan Li, Wei Chen, Haoyuan Hong. Landslide Susceptibility Prediction Using Sparse Feature Extraction and Machine Learning Models Based on GIS and Remote Sensing [J]. ***IEEE Geosciences and Remote Sensing Letters***, 2022, 19:1-5. (SCI 二区, IF: 3.966, **Highly-cited paper**)

(10) ***Faming Huang*****,** Siyu Tao, Zhilu Chang*, Jinsong Huang, Shui-Hua Jiang, Li Zhu. Efficient and automatic extraction of slope units based on multi-scale segmentation method for landslide susceptibility prediction [J]. ***Landslides***, 2021, 18: 3715–3731. (SCI 一区, IF: 6.578, **Highly-cited paper**)

(11) Chang, Zhilu.; Du, Zhen.; Zhang, Fan.; ***Huang, Faming.****; Chen, Jiawu.; Li, Wenbin.; Guo, Zizheng. Landslide Susceptibility Prediction Based on Remote Sensing Images and GIS: Comparisons of Supervised and Unsupervised Machine Learning Models. ***Remote Sensing***. 2020, 12, 502. (SCI 中科院二区, IF: 4.848, **Highly-cited paper**)

(12) ***Huang Faming*****,** Jing Zhang, Chuangbing Zhou, Yuhao Wang, Jinsong Huang & Li Zhu*. A deep learning algorithm using a fully connected sparse autoencoder neural network for landslide susceptibility prediction[J], ***Landslides,*** 2020. 17(01):217~229. (SCI 中科院一区, IF: 6.578, **Highly-cited paper**)

(13) ***Faming Huang,*** Zhongshan Cao, *Shui-hua Jiang**, Chuangbing Zhou, Zizeng Guo. Landslide susceptibility prediction based on a semi-supervised multiple-layer perceptron model [J], ***Landslides,*** 2020, 17, 2919-2930. (SCI 中科院一区, IF: 6.578, **Highly-cited Paper**)

(14) ***Faming Huang,*** Jinsong Huang*, Shuihua Jiang, Chuangbing Zhou. Landslide displacement prediction based on multivariable chaotic model and extreme learning machine [J]. ***Engineering Geology,*** 2017:173~186 (SCI 一区, IF: 6.755**, Highly-cited paper**)

(15) Faming Huang, Jiawu Chen, ***Weiping Liu****, Jinsong Huang, Haoyuan Hong, Wei Chen. Regional rainfall-induced landslide hazard warning based on landslide susceptibility mapping and a critical rainfall threshold [J]. ***Geomorphology,*** 2022, 408:108236. (SCI 中科院二区, IF: 4.139**, Highly-cited paper**)

(16) **Zhilu Chang, Jinsong Huang, *Faming Huang**, Kushanav Bhuyan, Sansar Raj Meena, Filippo Catani. Uncertainty analysis of non-landslide sample selection in landslide susceptibility prediction using slope unit-based machine learning models[J]. *Gondwana research,* 2023, 117, 307-320. (SCI 一区, IF: 6.151, Highly-cited paper)**

(17) Faming Huang, Zuokui Teng, Chi Yao*, Filippo Catani, Wei Chen, Jinsong Huang. Uncertainties of landslide

susceptibility prediction: influences of random errors in landslide conditioning factors and errors reduction by low pass filter method [J]. ***Journal of Rock Mechanics and Geotechnical Engineering***. 2024, 16(1): 213-230 (SCI 一区 TOP, IF=6.498，**Highly-cited Paper**)

(18)Zhilu Chang, ***Faming Huang****, Jinsong Huang, Shui-Hua Jiang, Yuting Liu, Sansar Raj Meena, Filippo Catani. An updating of landslide susceptibility prediction from the perspective of space and time [J]. Geoscience Frontiers, 2023,14 (5), 101619. (SCI 中科院一区, IF: 6.853, **Highly-cited Paper**)

(19)***Faming Huang***, Ronghui Li, Filippo Catani, Xiaoting Zhou*, Ziqiang Zeng, Jinsong Huang. Uncertainties in landslide susceptibility prediction: influence rule of different level of errors in landslide spatial position[J]. ***Journal of Rock Mechanics and Geotechnical Engineering***. 2024, https://doi.org/10.1016/j.jrmge.2024.02.001. (SCI 一区 TOP, IF=6.498)

(20)***Faming Huang***, Keji Liu, Shui-hua Jiang, Filippo Catani, Weiping Liu*, Xuanmei Fan, Jinsong Huang. Optimization method of conditioning factors selection and combination for landslide susceptibility prediction [J]. ***Journal of Rock Mechanics and Geotechnical Engineering***. 2024, https://doi.org/10.1016/j.jrmge.2024.04.029 (SCI 一区 TOP, IF=6.498)

(21)Faming Huang, Daxiong Mao, Shui-Hua Jiang, Chuangbing Zhou, Xuanmei Fan, Ziqiang Zeng, Filippo Catani, Changshi Yu, Zhilu Chang, Jinsong Huang, Bingchen Jiang, Yijing Li*. Uncertainties in landslide susceptibility prediction modeling: A review on the incompleteness of landslide inventory and its influence rules [J]. Geoscience Frontiers, 15 (2024): 101886.

(22)Jiang S H, Huang J, ***Huang Faming****, Jianhua Yang, Chi Yao, Chuangbing Zhou. Modelling of spatial variability of soil undrained shear strength by conditional random fields for slope reliability analysis [J]. ***Applied Mathematical Modelling***, 2018,63:374~389. (SCI 中科院一区, IF: 5.129)

(23)Zhilu Chang, ***Faming Huang,*** Jinsong Huang*, Shui-Hua Jiang, Chuangbing Zhou, Li Zhu. Experimental study of the failure mode and mechanism of loess fill slopes induced by rainfall [J], ***Engineering Geology***, 2021, 280: 105941. (SCI 中科院一区, IF: 6.755)

(24)Wenbin Li, Xuanmei Fan, ***Faming Huang*,*** Wei Chen, Haoyuan Hong, Jinsong Huang and Zizheng Guo. Uncertainties analysis of collapse susceptibility prediction based on remote sensing and GIS: influences of different data-based models and connections between collapses and environmental factors [J]. ***Remote Sens***. 2020, *12*(24), 4134. (SCI 中科院二区, IF: 4.848)

(25)Weiping Liu, Xiaoyan Luo, ***Faming Huang****. Prediction of soil-water characteristic curve using Bayesian updating from limited measurement data [J]. ***Applied Mathematical Modelling***, 2019, 76:380~395. (SCI 一区, IF: 5.129)

(26)***Faming Huang,*** Kunlong Yin*, Jinsong Huang. Landslide susceptibility mapping based on self-organizing-map network and extreme learning machine [J]. ***Engineering Geology*,** 2017,223:11~22. (SCI 一区, IF: 6.755)

(27)***黄发明***, 殷坤龙*,蒋水华,黄劲松,曹中山. 基于聚类分析和支持向量机的滑坡易发性评价研究[J].*岩石力学与工程学报*, 2018, 37(01):156~171. (EI Compendex，**全国百篇最具影响国内学术论文**)

(28)蒋水华,刘源,章浩龙,***黄发明****,黄劲松.先验概率分布及似然函数模型的选择对边坡可靠度评价影响的定量评估[J].***岩土力学***,2020,41(09):3087-3097. (EI Compendex)

(29)蒋水华, 刘贤, ***黄发明****, 黄劲松, 张婉彤. 融合观测信息的降雨诱发斜坡失稳机理及可靠度分析[J].***岩土工程学报***，2022, 44(08):1367～1375.

(30)蒋水华,刘贤,***黄发明****,*黄劲松.考虑多参数空间变异性的降雨入渗边坡失稳机理及可靠度分析*[J].***岩土工程学报***,2020,42(05):900-907. (EI Compendex)

(31)蒋水华,刘贤,***黄发明****,黄劲松,周创兵.基于一阶逆可靠度方法的空间变异土坡坡角设计[J].***岩土工程学报***, 2021, 43(07):1245-1252. (EI Compendex)

(32)***黄发明,***叶舟,姚池,李远耀,殷坤龙,黄劲松,姜清辉.滑坡易发性预测不确定性：环境因子不同属性区间划分和不同数据驱动模型的影响[J].***地球科学***, 2020, 45(12):4535-4549. (EI Compendex，卓越)

(33)***黄发明***，曹中山，姚池*，姜清辉，陈佳武等，基于决策树和有效降雨强度的区域降雨型滑坡危险性预警建模[J].***浙江大学学报工学版***, 2021,55(3):472-482. DOI:10.3785/j.issn.1008-973X.2021.03.000. (EI Compendex)

(34)***黄发明,*** 潘李含, 周创兵，姚池*,姜清辉, 常志璐. 基于半监督机器学习的滑坡易发性预测建模[J].***浙江大学学报工学版***，2021, 55 (09):1705-1713. (EI Compendex)

(35)**黄发明**, 陈佳武, 唐志鹏, 范宣梅*, 黄劲松, 周创兵, 常志璐. 不同空间分辨率和不同训练测试集比例的滑坡易发性预测不确定性[J]. ***岩石力学与工程学报***, 2021, 40(6):1155-1169. (EI)

(36)***黄发明***, 陈佳武,范宣梅*,黄劲松,周创兵. 降雨型滑坡时间概率的逻辑回归拟合及连续概率滑坡危险性建模[J].***地球科学***, 2022, 47(12): 4609-4628. (EI)

(37)***黄发明***，欧阳慰平，蒋水华，范宣梅*，陈 伟，周创兵. 考虑机器学习建模中训练/测试集时空划分原则的滑坡易发性预测建模 [J]. ***地球科学***. 2024,49(5):1607-1618. (EI Compendex)

(38)李文彬, 范宣梅, ***黄发明*,*** 武雪玲, 殷坤龙, 常志璐. 不同环境因子联接方法和数据驱动模型对滑坡易发性预测建模的影响规律[J]. ***地球科学***, 2021, 46(10):3777-3795. (EI Compendex)

(39)***黄发明***, 曹昱, 范宣梅, 李文彬*, 黄劲松, 周创兵，范文彦. 不同滑坡边界及其空间形状对滑坡易发性预测不确定性的影响规律[J].***岩石力学与工程学报***, 2021, 40(S02): 3227-3240. (EI)

(40)***黄发明***，陈彬，毛达雄，刘乐开，张子荷，朱莉．基于自筛选深度学习的滑坡易发性预测建模及其可解释性[J/OL]．***地球科学***. 2023, 48(5): 1696-1710. (中文 EI)

(41)***常志璐***, 黄发明*, 张鉴琅，黄劲松, 蒋水华, Filippo Catani.基于多尺度分割的斜坡单元划分及滑坡易发性预测建模[J]. ***工程科学与技术***, 2023, 55(1): 184-195. (中文 EI)

(42)***黄发明,*** 张鉴琅，郭子正*，范宣梅，周创兵. 不同易发性分级方法对区域滑坡易发性制图的影响规律[J]. ***工程科学与技术***，2024,56(1):148-159.

(43)***黄发明,*** 刘科技，曾子强，蒋水华*，杨阳，周创兵. 环境因子筛选及其组合方法对滑坡易发性预测的影响规律**[J].** ***应用基础与工程科学学报***，2024, 32(1): 49-71.

(44)***黄发明***，曾诗怡，姚 池，熊浩文，范宣梅，黄劲松. 滑坡易发性预测建模的不确定性：不同“非滑坡样本”选择方式的影响[J].***工程科学与技术***，2024，56 (1): 169-182.

(45)***黄发明***，吴敦筱，常志璐，陈茜，陶杰，蒋水华，周创兵. 滑坡样本缺失下易发性规律和潜在滑坡识别的易发性-InSAR 多源信息法[J]. 岩石力学与工程学报，2025，44(03): 1-20

论文获奖信息

(1). 基于聚类分析和支持向量机的滑坡易发性评价研究[J]，发表在岩石力学与工程学报 2018 年第 1 期，**入选 2020 年“全国百篇最具影响国内学术论文”和“F5000-中国精品 科技期刊顶尖学术论文奖”**(排名 1/5)

(2). Uncertainty law of landslide susceptibility prediction modelling: effects of different landslide boundaries and spatial shape expressions[J]. 发表在地学一区 SCI 期刊 Geoscience Frontiers，入选期刊 **2023 年度“Highly-Cited Author Award”(排名 1/7)**

(3). 基于证据权和卡方自动交互检测决策树的滑坡易发性预测 [J]. 发表在 CSCD 来源期刊 土木与环境工程学报，入选中信所 2023 年度**“F5000-中国精品科技期刊顶尖学术论文 奖”(排名 1/6)**

(4). Landslide susceptibility prediction using slope unit-based machine learning models considering the heterogeneity of conditioning factors，发表在岩土领域一区 TOP 期刊 Journal of Rock Mechanics and Geotechnical Engineering，入选**爱思唯尔(Elsevier)中国金色开放获取高下载论文学者奖(2023 年第三季)**，(通讯作者，排名 3/7)

(5). Landslide susceptibility prediction using slope unit-based machine learning models considering the heterogeneity of conditioning factors，岩土 TOP 期刊 JRMGE，**爱思唯尔(Elsevier)发布“Most cited articles published since 2022-2023”(通讯作者)**

发明专利和软著

(1). 发明专利：黄发明;何宇康;郭建飞;张彪;高焕祥;刘华赞. 一种侧缝式集诱鱼一体化过鱼建筑物: 专 利号：ZL 2019 1 0691899.9，授权公告日：2024 年 02 月 09 日，授权公告号：CN 110593223 B

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(3). 黄发明,刘梓轩(2018 级本科生),张晓晴(2018 级本科生),王梦溪(2018 级本科生),严茹(2018 级本科生). 一种探索降雨诱发危岩体崩落机制的物理实验装置. 专利号：ZL 2020 1 0713999.X，授权公告日：2024 年 11 月 10 日，授权公告号: CN 111862760 B

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(13). 中国岩石力学与工程学会会员 (S330790206M)，2017.11—至今

(14). 中国岩石力学与工程学会青年学术委员会委员，全国环境岩土青年委员会委员 2019.11—至今

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个人简介模版

黄发明，男，博士生导师，副教授，江西省“双千”高端创新青年人才和江西省杰青。2015年教育部公派在澳大利亚博士联合培养一年，2017年从中国地质大学(武汉)博士毕业，主要从事可解释机器学习建模、滑坡成因机制、基于GIS和机器学习的滑坡风险定量评价等研究。黄老师担任了CSCD核心期刊*地质科技通报*和SCI三区期刊*Frontiers in Earth Science*的副主编，以及*International Journal of Applied Nonlinear Science*、*Natural Hazards Research*和*Discover Geoscience*等高质量期刊的编委；**以第一完成人获评“江西省自然科学二等奖”**、入选斯坦福大学2022～2024年“全球前2%顶尖科学家”榜单、中信所2020年“全国百篇最具影响国内学术论文”和Geoscience Frontiers期刊2023年“Highly-Cited Author Award”等。黄博士主持国家自然科学面上/青年基金各1项，国家博士后特别资助等省部级项目10余项；发表第一或通讯作者的高质量论文80余篇，授权专利/软著20余项；**截止2024年12月在Google数据库中总被引5890次，H指数39，I-10指数97，有18篇中科院一区TOP级别SCI入选热点/高被引论文。**相关研究成果在南京/武汉地质调查院等单位得到了推广应用。

Huang Faming, male, doctoral supervisor and associate professor, is recognized as a young talent of "Double Thousand" high-end innovation in Jiangxi Province and an outstanding young scholar in Jiangxi Province. In 2015, he was dispatched by the Ministry of Education for a one-year joint doctoral training program in Australia. He graduated with a PhD from China University of Geosciences (Wuhan) in 2017. His main research focuses include interpretable machine learning

modeling, the causal mechanisms of landslides, and the quantitative assessment of landslide risks based on GIS and machine learning.

Mr. Huang serves as the deputy editor-in-chief of the CSCD core journal "Geological Science and Technology Bulletin" and the SCI journal "Frontiers in Earth Science", as well as a member of the editorial boards of high-quality journals such as "International Journal of Applied Nonlinear Science", "Natural Hazards Research", and "Discover Geoscience". As the primary contributor, he was awarded the "Second Prize of Natural Science of Jiangxi Province", was included in Stanford University's "Top 2% Global Highly Cited Researchers" list for 2022-2024, was recognized as one of the "National Hundred Most Influential Domestic Academic Papers" by the China Institute of Science and Technology Information in 2020, and received the "Highly-Cited Author Award" of the journal "Geoscience Frontiers" in 2023.

Dr. Huang has presided over one general project and one youth project of the National Natural Science Foundation of China, as well as over ten provincial and ministerial-level projects such as the Special Funding for Postdoctoral Research. He has published over 80 high-quality papers as the first author or corresponding author and has been granted over 20 patents and software copyrights. As of December 2024, his works have received a total of 5,890 citations in the Google database, with an H-index of 39 and an I-10 index of 97. Among them, 18 SCI papers in the top percentile of the Chinese Academy of Sciences have been selected as hot or highly cited papers. The relevant research achievements have been promoted and applied in institutions such as the Nanjing/Wuhan Geological Survey Institute.