
文献清单：期刊24-26年高浏览量文章荐读 MDPI Geotechnics

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文献清单：期刊24-26年高浏览量文章荐读 MDPI Geotechnics。期刊名：Geotechnics

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Md Jobair Bin Alam, Asif Ahmed and Md Zahangir Alam

电阻率层析成像在岩土与地质环境工程中的应用

Alam, M.J.B.; Ahmed, A.; Alam, M.Z. Application of Electrical Resistivity Tomography in Geotechnical and Geoenvironmental Engineering Aspect. Geotechnics 2024, 4, 399-414.
<https://doi.org/10.3390/geotechnics4020022>

Foundations in Permafrost of Northern Canada: Review of Geotechnical Considerations in Current Practice and Design Examples

Jo ã o Batista de Oliveira Lib ó rio Dourado et al

加拿大北部多年冻土基础：现行实践中的岩土工程考量与设计实例综述

Dourado, J.B.d.O.L.; Deng, L.; Chen, Y.; Chui, Y.-H. Foundations in Permafrost of Northern Canada: Review of Geotechnical Considerations in Current Practice and Design Examples. Geotechnics 2024, 4, 285-308. <https://doi.org/10.3390/geotechnics4010015>

Seismic Behavior of Retaining Walls: A Critical Review of Analytical and Field Performance Studies

Sabahat Ali Khan, Mourad Karray and Patrick Paultre

挡土墙抗震性能：解析方法与现场性能研究关键综述

Khan, S.A.; Karray, M.; Paultre, P. Seismic Behavior of Retaining Walls: A Critical Review of Analytical and Field Performance Studies. *Geotechnics* 2024, 4, 54-77. <https://doi.org/10.3390/geotechnics4010004>

Relationships between Soil Moisture and Visible – NIR Soil Reflectance: A Review Presenting New Analyses and Data to Fill the Gaps

Savannah L. McGuirk and Iver H. Cairns

土壤水分与可见光-近红外土壤反射率关系：填补研究空白的新分析与数据综述

McGuirk, S.L.; Cairns, I.H. Relationships between Soil Moisture and Visible – NIR Soil Reflectance: A Review Presenting New Analyses and Data to Fill the Gaps. *Geotechnics* 2024, 4, 78-108. <https://doi.org/10.3390/geotechnics4010005>

Determination of Constrained Modulus of Granular Soil from In Situ Tests—Part 1 Analyses

K. Rainer Massarsch

颗粒土约束模量的原位测试确定——第一部分：分析方法

Massarsch, K.R. Determination of Constrained Modulus of Granular Soil from In Situ Tests—Part 1 Analyses. *Geotechnics* 2024, 4, 18-40. <https://doi.org/10.3390/geotechnics4010002>

Artificial Ground Freezing—On the Soil Deformations during Freeze – Thaw Cycles

Zeina Joudieh, Olivier Cuisinier, Adel Abdallah and Farimah Masrouri

人工冻结—冻融循环中的土体变形

Joudieh, Z.; Cuisinier, O.; Abdallah, A.; Masrouri, F. Artificial Ground Freezing—On the Soil Deformations during Freeze – Thaw Cycles. *Geotechnics* 2024, 4, 718-741. <https://doi.org/10.3390/geotechnics4030038>

AI-Powered Digital Twin Technology for Highway System Slope Stability Risk Monitoring

Jianshu Xu and Yunfeng Zhang.

公路系统边坡稳定性风险监测的AI驱动数字孪生技术

Xu, J.; Zhang, Y. AI-Powered Digital Twin Technology for Highway System Slope Stability Risk Monitoring. *Geotechnics* 2025, 5, 19. <https://doi.org/10.3390/geotechnics5010019>

Rockfall Dynamics Prediction Using Data-Driven Approaches: A Lab-Scale Study

Milad Ghahramanieisalou and Javad Sattarvand

数据驱动方法预测落石动力学：实验室尺度研究

Ghahramanieisalou, M.; Sattarvand, J. Rockfall Dynamics Prediction Using Data-Driven Approaches: A Lab-Scale Study. *Geotechnics* 2025, 5, 13. <https://doi.org/10.3390/geotechnics5010013>

A Review of Particle Packing Models and Their Applications to Characterize Properties of Sand-Silt Mixtures

Ching S. Chang and Jason Chao

颗粒堆积模型及其在砂-粉土混合料性质表征中的应用综述

Chang, C.S.; Chao, J. A Review of Particle Packing Models and Their Applications to Characterize Properties of Sand-Silt Mixtures. *Geotechnics* 2024, 4, 1124-1139. <https://doi.org/10.3390/geotechnics4040057>

Static and Dynamic Cone Penetrometer Tests for Babolsar Sand Parameters via Physical Modeling

Abolfazl Eslami, Masoud Nobahar and Mohammad Esmailzade

基于物理模型的Babolsar砂静力与动力触探试验

Eslami, A.; Nobahar, M.; Esmailzade, M. Static and Dynamic Cone Penetrometer Tests for Babolsar Sand Parameters via Physical Modeling. *Geotechnics* 2024, 4, 966-984. <https://doi.org/10.3390/geotechnics4030049>

Landslide Prediction Validation in Western North Carolina After Hurricane Helene

Sophia Lin et.al

飓风海伦后北卡罗来纳州西部滑坡预测验证

Lin, S.; Chen, S.; Rasanen, R.A.; Zhao, Q.; Chavan, V.; Tang, W.; Shanmugam, N.; Allan, C.; Braxtan, N.; Diemer, J. Landslide Prediction Validation in Western North Carolina After Hurricane Helene. *Geotechnics* 2024, 4, 1259-1281. <https://doi.org/10.3390/geotechnics4040064>

Geotechnics 期刊介绍

Geotechnics (ISSN 2673-7094) 是一本国际性、跨学科、同行评审开放获取期刊。创刊于2021年，作者群体覆盖全球多个国家和地区，编委会由来自13个国家的43位资深学者组成，负责把控所发表文章的质量以及期刊的整体发展方向。目前，《Geotechnics》期刊已被Scopus、ESCI (Web of Science)、DOAJ等数据库收录，并持续提升其学术影响力。

期刊旨在发表与地学信息领域各方面相关的最新研究成果与综述论文，主题包括且不限于：

地基与土－结构相互作用；土体性质、改良与修复；土力学与岩石力学；地震工程；岩土材料的

力学、物理、水力和热学性质；滑坡与边坡稳定；地质灾害；地下结构；岩土工程中的数值模拟与数据分析；环境岩土工程；水文地质；废弃物与废弃物管理

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