

1. Carbon Emission Accounting Methods and Management Paths in Embodied Stage of Railway Tunnels (铁路隧道物化阶段碳排放核算方法及管理路径研究)

Bao, Xueying (School of Civil Engineering, Lanzhou Jiaotong University, Gansu, Lanzhou; 730070, China); Liao, Chenghan; Li, Zilong; Lyu, Xiangru **Source:** *Tunnel Construction*, v 45, n 2, p 284-2, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

2. Large-Scale Model Test Device for Grouting Behind Shield Tunnel Lining and Preliminary Investigation (大型盾构隧道壁后注浆模型试验装置研发及初步注浆试验)

Yu, Guowu (Guangdong Zhuzhao Railway Limited Liability Company, Guangdong, Guangzhou; 510000, China); He, Haoshen; Zhao, Teng; Lin, Cungang; Xia, Bin; Liang, Yu; Zhao, Chenyang **Source:** *Tunnel Construction*, v 44, p 123-134, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

3. Transformation of Anti-Jamming Capability of Chinese Remanufactured Tunnel Boring Machines in Soft Rock Tunnels (国产再制造 TBM 在软岩隧道中的防卡机改造研究)

Zhang, Xiaoping (Key Laboratory of Safety for Geotechnical and Structural Engineering of Hubei Province, School of Civil Engineering, Wuhan University, Hubei, Wuhan; 430072, China); Liu, Yongbin; Zhang, Chunyu; Li, Xinfang; Wang, Hongwu; Liu, Quansheng **Source:** *Tunnel Construction*, v 45, n 2, p 402-414, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

4. Mechanical Properties of Self-Adaptive Fast Connectors Between Rings of Shield Tunnel Segments (盾构隧道管片环间自适应快速连接件力学性能研究)

Zhao, Mingying (China Railway Siyuan Survey and Design Institute Group Co., Ltd., Hubei, Wuhan; 430063, China); Xiao, Mingqing; Xue, Guangqiao; Liu, Xuezheng; Fu, Jiahui **Source:** *Tunnel Construction*, v 44, p 168-178, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

5. Roughness Reduction Measures of Inner Wall of Long-Distance Free-Flow Water Conveyance Tunnel (长距离无压输水隧洞内壁减糙措施研究)

Wang, Hongshuai (Xinjiang Water Conservancy and Hydropower Survey and Design Institute, Urumqi, Xinjiang; 830000, China); Zhou, Yingxiang; Wang, Kaisheng; Niu, Wenjuan **Source:** *Tunnel Construction*, v 44, p 399-405, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

6. Development of Intelligent Tunneling Experimental System for Slurry Shield (泥水盾构智能掘进实验系统研制)

Chen, Ruixiang (State Key Laboratory of Shield Machine and Boring Technology, Henan, Zhengzhou; 450000, China); Li, Fengyuan; Liu, Yongsheng; Wang, Kai; Zhang, Hepei; Qin, Yinping **Source:** *Tunnel Construction*, v 44, p 192-200, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

7. Application and Research of Landslide Parameter Inversion Results in Slope Evaluation of Tunnel Entrance (滑坡参数反演成果在隧道洞口边仰坡评价中的应用与研究)

Wu, Qiang (Hainan Communications Planning Surveying and Designing Institute Co., Ltd., Hainan, Haikou; 570206, China); Zhao, Dongping; Yang, Fan **Source:** *Tunnel Construction*, v 44, p 93-100, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

8. Review on Development of Prefabricated Utility Tunnel Construction Equipment (装配式综合管廊施工设备发展综述)

He, Kaiwei (China Railway Engineering Equipment Group Co., Ltd., Henan, Zhengzhou; 450016, China); Huang, Wenlong; Wang, Zhanfei; Luo, Ying'ao; Xue, Guangji **Source:** *Tunnel Construction*, v 44, p 12-21, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

9. Parameters Analysis of Long-Distance Rectangular Pipe Jacking Underneath Beijing-Hangzhou Grand Canal (长距离矩形顶管下穿京杭大运河顶进参数分析)

Wang, Zhiqiang (CCCC Construction Group Co., Ltd., Beijing; 100022, China); Wang, Jinli; Fan, Dongdong; Liu, Tianshuang; Tan, Yong **Source:** *Tunnel Construction*, v 44, p 159-167, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

10. Feasibility Analysis of Natural Ventilation and Airflow Characteristics for Diesel-Hauled Train Pollutants in High-Altitude Tunnels (内燃牵引高海拔隧道气流特性及自然通风可行性分析)

Zheng, Jiayu (School of Environmental and Municipal Engineering, Lanzhou Jiaotong University, Gansu, Lanzhou; 730070, China); Sun, Sanxiang; Tian, Weihai **Source:** *Tunnel Construction*, v 44, p 300-308, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

11. Failure Analysis and Solutions for Rotating Body of Shield Tunnel Segment Assembly Machine (盾构管片拼装机旋转体失效分析及解决措施)

Li, Dawei (Equipment Center, China Railway Tunnel Group Co., Ltd., Guangdong, Guangzhou; 511458, China) **Source:** *Tunnel Construction*, v 44, p 462-469, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

12. Geometric Design Indices of Freeway Underground Interchange Ramps Based on Driving Load (基于驾驶负荷的高速公路地下互通匝道平纵设计指标研究)

Wang, Zuo (CCCC First Highway Consultants Co., Ltd., Shaanxi, Xi'an; 710075, China); Zhang, Chi; Jiao, Yuqi; Lin, Xuancai; Yan, Jiaqiang **Source:** *Tunnel Construction*, v 45, n 2, p 256-267, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

13. Erosion Performance and Mechanism of Cured Shield Muck in Acidic Environment (酸性环境对固化盾构渣土的侵蚀性能及机理研究)

Zhang, Henggen (Shandong Provincial Key Laboratory of Marine Environment and Geological Engineering, Ocean University of China, Shandong, Qingdao; 266100, China); Li, Haifeng; Deng, Shenggui; Liu, Tao **Source:** *Tunnel Construction*, v 44, p 256-265, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

14. Investigation on Limit Support Force of Excavation Surface of Shallow-Buried Rectangular Shield Tunnel (浅埋矩形盾构隧道开挖面极限支护力研究)

Zhang, Wengang (School of Civil Engineering, Chongqing University, Chongqing; 400045, China); Han, Fucheng; Sun, Weixin; Su, Weijia; Yang, Jiafeng; Xiao, Peng; Yang, Wenyu **Source:** *Tunnel Construction*, v 44, p 108-114, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

15. Influence of Crown Seepage on Electric Field Distribution Near Tunnel Cantilever Insulator and Seepage Deflector Channel Design (拱顶渗水对隧道腕臂绝缘子附近电场分布的影响分析及导流槽设计)

Sun, Wenxiong (College of Automation and Electrical Engineering, Lanzhou Jiaotong University, Gansu, Lanzhou; 730070, China); Ma, Jianqiao; Wu, Youqiang **Source:** *Tunnel Construction*, v 44, p 309-318, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

16. Development and Engineering Application of a Safety Management and Intelligent Decision-Making System for Entire Tunneling Process (隧道施工全过程安全管控与智能决策系统及其工程应用)

Jiang, Feng (Shandong University of Science and Technology, Shandong, Qingdao; 266590, China); He, Peng; Wang, Gang; Li, Weiteng; Gao, Yongqing; Zheng, Chengcheng **Source:** *Tunnel Construction*, v 44, p 266-285, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

17. Developments and Future Prospects of Digital Twin Technology in Tunnel Engineering (隧道工程数字孪生技术的发展现状与展望)

Zhang, Lin (Zhoushan City Transportation Engineering Management Center, Zhejiang, Zhoushan; 316021, China); Sheng, Zhenhua; Chen, Ruiyan; Pang, Yuankai; Hu, Zheng; Yang, Zhongxuan **Source:** *Tunnel Construction*, v 44, p 22-34, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

18. Design of Grounding System for Underground Precision Experimental Rooms in Form of Linear Tunnels (线性隧道式地下精密试验空间接地系统设计研究)

Cui, Zhibin (China Railway Tunnel Consultants Co., Ltd., Guangdong, Guangzhou; 511455, China); Chen, Haijun; Lin, Chungang; Ji, Xiang **Source:** *Tunnel Construction*, v 44, p 383-390, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

19. Selection and Adaptability of Shields in Calcareous Cemented Strata in Israel: A Case Study of Tel Aviv Green Line Light Rail Project (以色列钙质胶结地层盾构选型与适用性分析-以特拉维夫绿线轻轨工程为例)

Liu, Xiaomin (China Construction Sixth Engineering Bureau Co., Ltd., Tianjin; 300451, China); Song, Ziwen; Wang, Shiyong; Chen, Hongke; Jin, Chunshang; Song, Liwei **Source:** *Tunnel Construction*, v 44, p 452-461, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

20. Research and Application Analysis of Direct Sunlight Illumination Technology in Entrance Section of Highway Tunnels (公路隧道入口段太阳光直接照明技术研究与应用分析)

Yuan, Feiyun (Sichuan Tibetan Expressway Co., Ltd., Sichuan, Chengdu; 610041, China); Xiao, Feng; Shi, Lingna; Wen, Sen; Wu, Jinsuo; Wang, Haohuan **Source:** *Tunnel Construction*, v 44, p 361-368, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

21. Elaborate Inspection Method for Tunnel Lining Quality Based on Ultrasonic Phased Array (基于超声相控阵的隧道衬砌质量精细化检测方法及应用)

Yuan, Zhenyu (Railway Engineering Research Institute, China Academy of Railway Sciences Corporation Limited, Beijing; 100081, China); Ye, Zhendong; An, Zheli; Ma, Weibin; Hu, Honglin; Guo, Zigang **Source:** *Tunnel Construction*, v 44, p 237-244, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

22. Spatio-Temporal Evolution Pattern and Sensitivity Analysis of Freezing Temperature Field of Shaft in Water-Rich Sand Layer With Groundwater Seepage (地下水渗流富水砂层竖井冻结温度场时空演化规律及敏感性分析)

Rong, Chuanxin (School of Civil Engineering and Architecture, Anhui University of Science and Technology, Anhui, Huainan; 232001, China); Tu, Zhuo; Long, Wei; Zhang, Runze **Source:** *Tunnel Construction*, v 45, n 2, p 268-283, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

23. Microdeformation Control Method of a Loess Foundation Pit Closely Crossing Above a Metro Tunnel (黄土地层基坑工程近距上跨地铁隧道小变形控制方法研究)

Shi, Wei (Shaanxi Construction Engineering Group Co., Ltd., Shaanxi, Xi'an; 710003, China); Zheng, Jianguo; Cao, Jingyuan; Yu, Yongtang; Liang, Baozhen; Lei, Wei; Zhang, Zhiyi **Source:** *Tunnel Construction*, v 45, n 2, p 361-374, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

24. Freezing Rehabilitation Technology for Severe Segment Dislocation in Connecting Passages by Mechanized Methods (机械法施工联络通道管片严重错台冻结法修复技术)

Yan, Chao (School of Civil Engineering, Nanjing Forestry University, Jiangsu, Nanjing; 210037, China); Yang, Ping; Li, Zhixi; Zhang, Ting **Source:** *Tunnel Construction*, v 45, n 2, p 392-401, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

25. Application Research of Geophysical Prospecting Techniques in Entire Life Cycle of Tunnel Engineering (物探技术在隧道工程全生命周期中的应用研究)

Chen, Nan (Ningbo Regional Railway Investment and Development Co., Ltd., Zhejiang, Ningbo; 315101, China); Chen, Shifeng; Wu, Qiang; Rong, Xin; Ye, Ronghua; Xu, Guang; Zhao, Yonghui **Source:** *Tunnel Construction*, v 44, p 224-236, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

26. Feasibility Study on Immersed-Tube Tunnels in Ultra-Deep (Over 100 m) Water Areas (百米级超深水区域条件下沉管隧道可行性研究)

Ning, Jinjin (Tongji University, Shanghai; 200092, China); Lyu, Yingxue **Source:** *Tunnel Construction*, v 44, p 377-382, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

27. A Fuzzy Comprehensive Evaluation System for Metro Leakage Incorporating Combination Weighting and Its Application (基于组合赋权的地铁渗漏模糊综合评价体系及应用)

Zhang, Mingju (Key Laboratory of Urban Security and Disaster Engineering of the Ministry of Education, Beijing University of Technology, Beijing; 100124, China); Xiang, Yang; Li, Pengfei; He, Haijian; Xu, Qing **Source:** *Tunnel Construction*, v 44, p 61-72, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

28. High Precision Synchronous Collection Technology for Multiple Drilling Information of Tunnel Surrounding Rocks (隧道围岩多元钻进信息高精度同步采集技术研究)

Huang, Zhu'an (China Railway Construction Heavy Industry Co., Ltd., Hunan, Changsha; 410100, China) **Source:** *Tunnel Construction*, v 44, p 352-360, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

29. Elaborate Numerical Modeling of Metro Shield Tunnel Structure Deformation Induced by Lateral Foundation Pit Excavation (旁侧基坑开挖对地铁盾构隧道影响的精细化数值模拟研究)

Ruan, Hengfeng (Wuhan Center, China Geological Survey (Geosciences Innovation Center for Central South China), Hubei, Wuhan; 430205, China); Liang, Rongzhu; Kang, Cheng; Li, Zhongchao; Cao, Shi'an; Ding, Zhi **Source:** *Tunnel Construction*, v 44, p 245-255, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

30. Design of Monitoring Terminal for Surrounding Rock Structure Based on Dual Strategy of Low Power Consumption and Dynamic Frequency Modulation (基于低功耗与动态调频双重策略的围岩结构监测终端设计)

Wang, Qingling (Qinghai Provincial Transportation Construction Management Co., Ltd., Qinghai, Xining; 810000, China); Xu, Minjian; Guo, Hongyan **Source:** *Tunnel Construction*, v 44, p 152-158, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

31. Influence of Metal Ion Complex on ζ Potential in Shield Muck During Solidification (金属离子络合物对盾构渣土固化过程中 ζ 电位的影响)

Liao, Yunyang (Fifth Engineering Company CREGC, Sichuan, Chengdu; 610031, China); Zhang, Heng; Liao, Rupeng; Lei, Mingcheng; Ding, Bosong; Wang, You **Source:** *Tunnel Construction*, v 44, p 144-151, December 20, 2024 **Language:** Chinese
Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

32. Surrounding Rock Load and Segment Mechanical Behavior of Chunfeng Road Super-Large Diameter Shield Tunnel (春风路超大直径盾构隧道围岩荷载及管片力学行为分析)

Sun, Zhenchuan (China Railway Tunnel Group Co., Ltd., Guangdong, Guangzhou; 511458, China); Lyu, Qianqian; Sun, Feixiang; Yang, Zhenxing **Source:** *Tunnel Construction*, v 44, p 84-92, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

33. Key Design Technology of Thickly-Filled Open-Cut Tunnel of High-Speed Railway With Highly-Filled and Deeply-Excavated Foundation (高填深挖地基厚填土高铁明洞设计关键技术)

Feng, Tianwei (China Railway Design Corporation, Tianjin; 300300, China); Meng, Qingyu; Zhang, Qingbo; Ma, Zhifu **Source:** *Tunnel Construction*, v 44, p 406-415, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

34. General Design Scheme For Shu'an Tunnel of Chengdu-Chongqing Midline Railway (成渝中线铁路蜀安隧道总体设计方案研究)

Qi, Chun (China Railway Eryuan Engineering Group Co., Ltd., Sichuan, Chengdu; 610031, China); Yu, Yu; Pang, Tao; Liu, Jinsong; Tian, Siming; Wang, Chuang; Luo, Lusen **Source:** *Tunnel Construction*, v 44, p 391-398, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

35. Experimental Investigation of Slurry Performance in Synchronous Grouting Using Silty Clay For Slurry Shield (粉质黏土地层泥水平衡盾构渣土制备同步注浆浆液性能试验研究)

Wang, Hongjun (Guangdong Provincial Railway Construction Investment Group Co., Ltd., Guangdong, Guangzhou; 510510, China); Chen, Jian; Xiao, Mingzhe; Gao, Shijun; Li, Mingyu **Source:** *Tunnel Construction*, v 44, p 201-210, December 20, 2024

Language: Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

36. Experimental Study on Construction of a Permanent and Temporary Integrated Prefabricated Underground Diaphragm Wall Model (永临一体装配式地下连续墙模型施工试验研究)

Han, Sheng (China Railway First Group (Guangzhou), Construction Engineering Co., Ltd., Guangdong, Guangzhou; 511466, China) **Source:** *Tunnel Construction*, v 44, p 445-451, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

37. Current Status and Prospects of Research on Grouting Treatment for Structural Deformation of Shield Tunnels During Service Period (注浆治理服役期盾构隧道结构变形研究现状及展望)

Wei, Gang (Department of Civil Engineering, Hangzhou City University, Zhejiang, Hangzhou; 310015, China); Li, Hang **Source:** *Tunnel Construction*, v 44, p 1-11, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

38. Design and Experimental Research of a Novel Type of Cutter Holder With Rotating Friction Body for Rapid Cutter Change of Tunnel Boring Machines (TBM 快速换刀用旋转摩擦体新型刀座的设计及试验研究)

Zhao, Hailei (State Key Laboratory of Shield Machine and Boring Technology, Henan, Zhengzhou; 450001, China); Liu, Wei; Pei, Chengyuan; Wu, Lei; Wang, Liming; Qin, Yinping; Bai, Yanlei **Source:** *Tunnel Construction*, v 44, p 478-484, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

39. Development and Application of Similarity Test Equipment for Load-Bearing Mechanical Characteristics of Tunnel Structures Under Hydraulic Pressure (水压作用下钻爆隧道结构承载力学特性相似试验装备研发与应用)

Jiang, Xinghong (State Key Laboratory of Coal Mine Dynamics and Control, Chongqing University, Chongqing; 400044, China); Li, Ke; Xiao, Shilai; Liu, Min **Source:** *Tunnel Construction*, v 44, p 115-122, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

40. Safety Risk Evaluation of Long-Distance Small-Diameter Tunnel Bored by Tunnel Boring Machine (长距离小直径隧洞 TBM 施工安全风险评价)

Wang, Jie (4th Engineering Co., Ltd., China Railway No. 5 Engineering Group, Guangdong, Shaoguan; 512000, China); Cheng, Guolong; Zhou, Bing; Hu, Wei; Tan, Houjun; Xie, Jianhong **Source:** *Tunnel Construction*, v 44, p 211-223, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

41. Progressive Failure Mechanism and Support Optimization of Tunnel Structure in Daliangshan Expansive Soft Rock Tunnel (膨胀性软岩隧道结构渐进性破坏机制与支护优化研究——以大亮山隧道为例)

Li, Shouren (Department of Geotechnical Engineering, Tongji University, Shanghai; 200092, China); Xie, Xiongyao; Tang, Genji; Li, Peifeng **Source:** *Tunnel Construction*, v 44, p 424-434, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

42. Displacement and Deformation Mode of Complex Rock Strata in Central Urban Area Induced by Double-Shield Tunnel Boring Machine (中心城区复杂岩石地层双护盾 TBM 施工位移变形模式研究)

Wang, Zheyong (Qingdao Metro Group Co., Ltd., Shandong, Qingdao; 266035, China); Liu, Chenglong; Xu, Zhen; Xiao, Yongqiang; Zong, Chao; Sun, Yingtao; Jiang, Yusheng **Source:** *Tunnel Construction*, v 44, p 135-143, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

43. Cutterhead Penetration Rate Prediction of Tunnel Boring Machines Based on Optuna-Self-Attention Mechanism-Long Short-Term Memory Model (基于 Optuna-SAM-LSTM 模型的 TBM 刀盘贯入度超前预测)

Liu, He (College of Civil Engineering, North China University of Technology, Beijing; 100144, China); Man, Ke; Liu, Xiaoli; Song, Zhifei **Source:** *Tunnel Construction*, v 44, p 329-341, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

44. Superposed Effects on Deformation of Metro Tunnels in Soft Soils Caused by Excavation of Foundation Pits on Both Sides (软土地层地铁隧道受两侧基坑群开挖叠加影响研究)

Wang, Weidong (Arcplus Group PLC, Shanghai; 200011, China); Xu, Zhonghua; Gu, Zhengrui; Zong, Ludan **Source:** *Tunnel Construction*, v 44, p 51-60, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

45. Application of Improved Pelican Optimization Algorithm-Convolutional Neural Networks-Bidirectional Gated Recurrent Unit Model in Predicting Foundation Pit Dewatering (多策略改进的 IPOA-CNN-BiGRU 模型在基坑降水预测中的应用)

Yu, Weihe (PetroChina Liaoning Dandong Sales Branch, Liaoning, Dandong; 118016, China); Huang, Zhiqiang; Wang, Naiyi; Zhang, Ning **Source:** *Tunnel Construction*, v 44, p 286-299, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

46. Development and Implementation of Digital Design System for Civil Structure of Immersed Tunnels (沉管隧道土建结构数字化设计系统研发与应用)

Cao, Yingfeng (CCCC Highway Consultants Co., Ltd., Beijing; 100010, China); Liu, Hongzhou; Wang, Yong; Liu, Xi **Source:** *Tunnel Construction*, v 44, p 416-423, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

47. Surface Settlement Pattern Caused by Excavation of a Cantilever Boring Machine Under an Airport (下穿机场隧道悬臂掘进机开挖引起的地表沉降规律研究)

Feng, Shangze (Faculty of Civil Engineering and Mechanics, Kunming University of Science and Technology, Yunnan, Kunming; 650500, China); Ding, Zude; Guo, Yongfa; Ding, Wenyun; Liu, Zhengchu; Wang, Changyu **Source:** *Tunnel Construction*, v 44, p 319-328, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

48. Construction Analysis of Water-Rich Tunnels Based on Hoek-Brown Elastoplastic Hydraulic-Mechanical-Damage Coupling Model (基于 Hoek-Brown 弹塑性 HMD 耦合模型的富水区隧道施工分析)

Song, Hongzhuo (Transportation Management College, Dalian Maritime University, Liaoning, Dalian; 116026, China); Jiang, Annan; Ruan, Yingying; Min, Qinghua **Source:** *Tunnel Construction*, v 44, p 342-351, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

49. Research Progress on Interface Failure Mechanism and Constitutive Model of Anchorage Structure (锚固结构界面失效机制及其界面模型研究进展)

Zhang, Yuwei (School of Civil Engineering, Xi'an University of Architecture and Technology, Shaanxi, Xi'an; 710055, China); Jie, Jinpu; Song, Zhanping; Sun, Yinhao; Cheng, Tao **Source:** *Tunnel Construction*, v 44, p 35-50, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

50. Surrounding Rock Stability of Main Caverns of Underground Water-Sealed Cavern Based on Safety Factor (基于安全系数的地下水封洞库主洞室围岩稳定性研究)

Zhu, Jie (China Petroleum Engineering and Construction Corp. North China Company, Hebei, Renqiu; 062500, China); Yang, Chen; Cui, Meng; Fu, Yueyou; Jia, Hongyan; Han, Mengmeng **Source:** *Tunnel Construction*, v 44, p 179-191, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

51. Disc Cutter Wear of Tunnel Boring Machine in Hard Rocks of Pumped Storage Hydropower Station (抽水蓄能电站 TBM 硬岩掘进滚刀磨损研究)

Jiang, Qiao (China Railway Engineering Equipment Group Co., Ltd., Henan, Zhengzhou; 450016, China); Wang, Shuangjing; Jing, Liuji; Shi, Yunlong; Wei, Xiaolong; Li, Pengyu; Yang, Chen **Source:** *Tunnel Construction*, v 44, p 470-477, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

52. Deformation and Failure Mechanism of Shallow Inclined-Layered Surrounding Rock Tunnel and Calculation Method of Geological Asymmetrically-Pressurized Load (浅埋倾斜层状围岩隧道变形破坏机制及地质偏压荷载计算方法研究)

Liu, Jianyou (China Railway Engineering Consulting Group Co., Ltd., Beijing; 100055, China); Fang, Xu; Fang, Qian; Wang, Jun **Source:** *Tunnel Construction*, v 44, p 101-107, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

53. Material Point Method Analysis for Stability of Tunnel Face in Sandy Stratum (砂土地层隧道掌子面稳定性的物质点法分析)

Wang, Mingnian (State Key Laboratory of Intelligent Geotechnics and Tunnelling, Sichuan, Chengdu; 610031, China); Yang, Henghong; Wang, Xu; Liu, Siyang; Yu, Li; Liu, Dagang **Source:** *Tunnel Construction*, v 44, p 73-83, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

54. Asymmetric Large Deformation Control Technology and Primary Support Optimization of Deep-Buried Asymmetrical-Pressurized Highway Tunnels: A Case Study of Nanlangshan No.1 Tunnel (深埋偏压公路隧道非对称大变形控制技术及其初期支护优化——以南朗山一号隧道为例)

Xu, Wanmin (Yunnan Jiaotou Highway Construction Sixth Engineering Co., Ltd., Yunnan, Kunming; 650100, China); Xu, Jiaxin; Xu, Jinfeng; Li, Shouren **Source:** *Tunnel Construction*, v 44, p 435-444, December 20, 2024 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

55. Influence of Natural Wind on Fire Smoke Diffusion Characteristics Through Shafts in Extra-Long Highway Tunnels (自然风对竖井排烟特长公路隧道火灾烟气扩散特性的影响)

Chen, Li (China Railway 16th Bureau Group No. 1 Engineering Co., Ltd., Beijing; 101300, China); Liu, Bing; Cao, Zhi; Chen, Jiajia; Zhang, Heng; Zhang, Zhiqiang **Source:** *Tunnel Construction*, v 45, n 2, p 315-323, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

56. Experimental Study on Properties of Bentonite-Cement-Sodium Silicate Slurry at High Temperature (高温条件下膨润土-水泥-水玻璃浆液性能试验研究)

Su, Lei (China Railway No. 3 Engineering Group Co., Ltd., Shanxi, Taiyuan; 030001, China); Zhou, Heng; Fan, Jinguang; Yu, Qiang; Yang, Yiwei; Liu, Haojie; Li, Xiuhao **Source:** *Tunnel Construction*, v 45, n 2, p 332-340, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

57. Effects of a Train Overtaking a Station on Metro Platform Smoke Exhaust Characteristics Under a Collaborative Smoke Exhaust System (协同排烟制式下列车越站对地铁站台排烟的影响研究)

Gan, Tian (China Railway Siyuan Survey and Design Group Co., Ltd., Hubei, Wuhan; 430063, China) **Source:** *Tunnel Construction*, v 45, n 2, p 324-331, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

58. Analysis of Diseases and Treatment Measures for an Immersed Tunnel (某沉管隧道病害分析及处置措施构思)

Sun, Chao (China Railway Liuyuan Group Co., Ltd., Tianjin; 300000, China); Zhang, Guangwei; Da, Wuqiang; Yu, Zufeng **Source:** *Tunnel Construction*, v 45, n 2, p 415-424, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

59. Numerical Simulation of Distribution Characteristics of Aerodynamic Noise of Trains Running in Railway Tunnels (高铁隧道内列车气动噪声分布特性仿真研究)

Li, Zhuoming (Railway Engineering Research Institute, China Academy of Railway Sciences Corporation Limited, Beijing; 100081, China); Ma, Weibin; Wang, Zihong **Source:** *Tunnel Construction*, v 45, n 2, p 341-351, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

60. Numerical Model and Validation of Leakage for Multi-Chamber Sealing System of a Shield Tail Brush (盾尾刷多腔密封系统渗漏数值模型及验证)

Li, Dawei (Equipment Branch of China Railway Tunnel Group Co., Ltd., Henan, Luoyang; 471009, China); Zhong, Xiaochun; Liu, Chang; Shen, Guili; Zhong, Jianling; Huang, Siyuan **Source:** *Tunnel Construction*, v 45, n 2, p 304-314, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

61. Application Status and Prospects of Deep Learning in Tunnels and Underground Engineering (深度学习在隧道与地下工程中的应用现状及展望)

Song, Zhanping (School of Civil Engineering, Xi'an University of Architecture and Technology, Shaanxi, Xi'an; 710055, China); Yang, Zifan; Zhang, Yuwei; Huo, Runke **Source:** *Tunnel Construction*, v 45, n 2, p 221-255, February 2025 **Language:** Chinese
Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

62. Application of Building Information Modeling Technology in Optimization of Embedded Channels in Shield Tunnel Segments (BIM 技术在盾构管片预埋槽道优化中的应用研究)

Zhao, Wenxiang (China Communications Information & Technology Group Co., Ltd., Beijing; 101318, China); Qu, Bingyu; Wang, Houlin; Huang, Liangliang **Source:** *Tunnel Construction*, v 45, n 2, p 375-381, February 2025 **Language:** Chinese
Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

63. Vibration Response Patterns of Adjacent Single Piles Induced by Shield Tunneling (盾构隧道施工诱发邻近单桩的振动响应规律)

Zhao, Guangzi (China Railway 18th Bureau Group Corporation Limited, Tianjin; 300350, China); Li, Kejin; Li, Chunlin; Qiu, Hui; Ma, Yue; Wang, You **Source:** *Tunnel Construction*, v 45, n 2, p 295-303, February 2025 **Language:** Chinese
Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

64. Interface Temperature Field of Freezing Method Construction for a Super-Large Diameter Shield Tunnel Connecting Channel: A Case Study of Beijing East Sixth Ring Renovation Project (超大直径盾构隧道联络通道冻结法施工交界面温度场研究-以北京东六环改造工程冻结联络通道为例)

Li, Ming (China Coal Research Institute, Beijing; 100013, China); Wang, Lei; Cui, Hao; Chen, Honglei; Sun, Changsong; Yang, Zhe **Source:** *Tunnel Construction*, v 45, n 2, p 352-360, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

65. Statistics and Development Analysis of Urban Rail Transit in China in 2024 (2024 年我国城市轨道交通数据统计与发展分析)

Wang, Fuwen (China Civil Engineering Society Rail Transit Branch, Beijing; 100037, China); Liang, Shuaiwen; Feng, Aijun **Source:** *Tunnel Construction*, v 45, n 2, p 425-434, February 2025

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.

66. Construction Risk Control of Large-Section, Small-Spacing Rectangular Pipe-Jacking Metro Stations: A Case Study of Haibang Metro Station in Guangzhou, China (大断面小净距矩形顶管法地铁车站施工风险控制研究-以广州地铁海傍站为例)

Wu, Senyang (China Merchants Chongqing Highway Engineering Testing Center Co., Ltd., Chongqing; 400067, China); Chen, Xiang; Chen, Peng; Zeng, Yuhang **Source:** *Tunnel Construction*, v 45, n 2, p 382-391, February 2025 **Language:** Chinese

Database: Compendex

Data Provider: Engineering Village

Compilation and indexing terms, Copyright 2025 Elsevier Inc.