

By driving innovations and addressing key challenges, these technologies are set to transform the design, construction, and maintenance of underground space, establishing new ...

As human activities begin to change the planet and population struggle to maintain satisfactory standards of living, placing new infrastructure and related facilities underground may be the most ...

Abstract Underground infrastructure is essential for delivery of services that support a strong urban economy and high quality of life. However, current underground engineering practice ...

Therefore, it is proposed to store solar thermal energy underground via energy piles. To investigate the performance of such systems, a laboratory-scale coupled energy pile-solar ...

The scale of urban underground space use is getting larger, and the utilization of shallow underground space in central areas of some cities is even saturated, and the demand for deep underground space ...

The significance of urban underground space (UUS) development lies in its ability to provide broad opportunities to address various urban challenges and meet the growing demands of ...

Fan, Application of Underground Container Logistics System in the Integrated Development of Port and City, Chinese Journal of Underground Space and Engineering, No 14, ?. 49

Moreover, underground commercial complexes and public service facilities enhance the diversity and convenience of urban functions, fostering greater economic vitality. The development of ...

In a world where real estate prices soar and urban sprawl threatens nature, tunnelling and underground space technology are the unsung heroes of modern engineering. Who knew that ...

This perspective provides valuable theoretical and technical guidance for the construction and development of large-scale underground energy storage, further promoting the ...

To enhance the service of a container terminal, this article investigates a novel loading and unloading scheme that optimizes the underground container logistic system and configuration ...

Tunnel and underground engineering are the main types of underground space development and utilization, both existing in surrounding rock media. The mechanical problems of ...

Underground engineering development and solar container

Underground space planning is the premise and guarantee of orderly development of underground space. Throughout the development of important cities at home and abroad, the intensive use of ...



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