Special Issue

Advances in Smart Underground Construction and Tunneling Design

Message from the Guest Editors

With rapid urbanization and growing infrastructure demands, underground construction has become pivotal for sustainable development, offering solutions to space constraints and environmental challenges. This Special Issue will explore cutting-edge advancements in underground construction and tunneling design, emphasizing multidisciplinary innovations, digital intelligence developments, and sustainability. Papers should cover diverse aspects, such as geological surveys, design and modeling methods, construction techniques, the maintenance of underground structures, and relevant case studies, featuring AI, robotics, and smart monitoring systems for safety and efficiency. The Special Issue aims to drive innovation and improvement in underground construction and tunneling design, fostering intelligent, sustainable and resilient underground infrastructure.

Guest Editors

Prof. Dr. Peizhi Zhuang

Dr. Pinqiang Mo

Dr. Ran Yuan

Dr. Hong-Ya Yue

Dr. He Yang

Deadline for manuscript submissions

20 September 2026

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 6.1

mdpi.com/si/248481

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 6.1

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (Fluid Flow and Transfer Processes)