

# Special Issue

## Advanced Studies in Structure Materials—2nd Edition

### Message from the Guest Editors

As we all know, the operating conditions and working environment of hydraulic structures such as dams, spillways, weirs, culverts, and canals are very complex. These environments easily cause decay and aging of the physical and mechanical properties of building materials, thereby shortening the service life of hydraulic structures and even threatening the safe operation of hydraulic structures. Therefore, for some old and ill hydraulic structures, it is necessary to adopt high-performance repair materials and repair processes to ensure their safe operation.

The main aim of this Special Issue "Advanced Studies in Structure Materials" in *Buildings* is to provide a platform for the discussion of the major research challenges and achievements in the development of novel hydraulic structures materials. We warmly invite authors to submit their papers for potential inclusion in this Special Issue on concrete, repair materials, mortar, sustainable materials, and geo-materials in hydraulic structures such as dams, spillways, weirs, culverts, and canals.

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### Guest Editors

Dr. Yang Li

Prof. Dr. Ruijun Wang

Dr. Yiping Luo

Dr. Xiaochun Lu

Dr. Li Li

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### Deadline for manuscript submissions

closed (28 February 2026)



## Buildings

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## About the Journal

### Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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### Editor-in-Chief

Prof. Dr. David Arditi

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

#### Journal Rank:

JCR - Q2 (Construction and Building Technology) /  
CiteScore - Q1 (Architecture)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).