



Advanced Studies in Structure Materials—2nd Edition

Guest Editors:

Dr. Yang Li

Prof. Dr. Ruijun Wang

Dr. Yiping Luo

Dr. Xiaochun Lu

Dr. Li Li

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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.





Editor-in-Chief

Prof. Dr. David Arditi

Construction Engineering and Management Program,
Department of Civil,
Architectural, and Environmental
Engineering, Illinois Institute of
Technology, 3201 South
Dearborn Street, Chicago, IL
60616, USA

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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Buildings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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