Special Issue

Innovative Composite Materials in Construction

Message from the Guest Editors

This Special Issue, entitled "Innovative Composite Materials in Construction", focuses on the developments and applications of innovative composite materials in various engineering fields, aiming at providing a comprehensive background and prospects for material engineers, researchers and experts in science materials and civil engineering. The main research includes, but is not limited to, the following topics:

- **Innovative Materials:** Particle-reinforced composites in construction; fiber-reinforced composites in construction; innovative composite materials.
- **Characterization:** Analytical and numerical models of innovative composite materials; physical properties; mechanical properties; microstructures.
- **Applications:** Construction materials; buildings; smart materials; phase change materials; case study of application of innovative composite materials.

Guest Editors

Dr. Chang Chen
Prof. Dr. Lei Wang
Prof. Dr. Yanxin Chen

Deadline for manuscript submissions

closed (31 October 2025)

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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.

Editor-in-Chief

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