

Special Issue

High-Performance Composite Materials in Construction

Message from the Guest Editors

In recent decades, the development of high-performance building composite materials has emerged as a key strategy to meet the evolving demands of the construction industry, including improved durability, energy efficiency, structural resilience, and environmental sustainability. These advanced materials, ranging from fiber-reinforced composites and nano-engineered cementitious systems to multifunctional hybrid materials, are engineered to overcome the limitations of conventional building materials under complex service conditions and harsh environments. Breakthroughs in microstructural tailoring, interfacial optimization, the use of multifunctional additives, and multi-scale performance modeling are driving the development of a new generation of composite materials with superior mechanical, thermal, and functional properties. We welcome contributions that address not only material performance enhancement but also environmental impact reduction, service-life extension, and emerging functional properties such as self-healing, self-sensing, or thermal regulation.

Guest Editors

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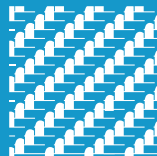
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Deadline for manuscript submissions

15 December 2025



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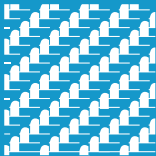
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