

Special Issue

Composite Materials for Civil Engineering Applications

Message from the Guest Editors

Dear Colleagues, The adoption of advanced composite materials, such as fiber-reinforced polymers and hybrid composites, is transforming civil engineering by offering durable, sustainable, and cost-effective solutions. Their unique properties, including high strength-to-weight ratio, corrosion resistance, and ease of installation, make them ideal for applications like seismic retrofitting, structural strengthening, and sustainable infrastructure. However, successful integration into civil engineering requires addressing challenges such as long-term performance under environmental stressors (moisture, UV, freeze-thaw, and chemical attack), understanding structural behavior, developing reliable design standards, optimizing manufacturing and installation for large-scale use, ensuring fire resistance, and evaluating lifecycle costs and environmental impact. This Special Issue aims to showcase the latest research and innovations in composite materials for civil engineering, providing a platform for high-quality studies that bridge material science, structural engineering, and practical applications.

Guest Editors

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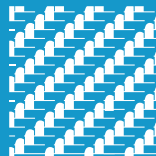
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Editor-in-Chief

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