

Special Issue

Sustainable Development of Advanced Composite Materials in Construction

Message from the Guest Editors

Composite materials appeal to sustainable development goals by providing durability, energy efficiency, and resource conservation. They decrease the frequency of repairs and replacements, reducing the resources consumed over a building's lifecycle. Fiber-reinforced polymer (FRP) has superior insulation properties, enhancing energy efficiency and reducing greenhouse gas emissions. Construction uses advanced composite materials for non-structural elements and load-bearing components. Innovations like 3D printing have improved construction processes, reduced waste, and improved worker safety. This Special Issue explores the use of polymer composites in civil infrastructure, including their profiles. The topics covered in this research field include material analysis, microstructure inspection, durability assessment, and long-term efficacy evaluation. This issue also accepts state-of-the-art reviews of composite materials in construction materials.

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