

Special Issue

Environment-Friendly Building Material: Modification, Emulsification, Structural Behavior and Performance Characterization

Message from the Guest Editor

The construction industry is a major contributor to global environmental challenges, with conventional building materials often relying on energy-intensive and unsustainable production processes. This Special Issue aims to explore the development and characterization of novel, environment-friendly building materials that address these concerns. We welcome papers that investigate the modification, emulsification, and structural behavior of sustainable alternatives to traditional construction materials. This may include, but is not limited to, the use of bio-based, recycled, or waste-derived components in the production of concrete, insulation, roofing, and other building products. Submissions should provide a comprehensive assessment of the materials' physical, mechanical, thermal, and environmental performance characteristics. Interdisciplinary research that combines material science, structural engineering, and sustainable design principles is particularly encouraged. Innovative computational modeling techniques and experimental validation methods for evaluating the feasibility and scalability of these environment-friendly building materials are also of interest.

Guest Editor

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Message from the Editor-in-Chief

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