

## Special Issue

# Fibers in Reinforced Concrete for Design, Strengthening and Re-Habilitation

### Message from the Guest Editors

With emerging multi-faceted challenges in the design and construction of concrete structures, such as aging infrastructure, extreme events, and environmental impact, incorporating fibers into construction material has become imperative to address these challenges and improve strength, ductility, toughness, etc. The application of Fiber-Reinforced Polymer (FRP) bars in the design and construction of reinforced concrete structures has gained significant traction due to their unique material properties and reduced environmental impact, compared to typical steel reinforcement, leading to their incorporation in design codes and standards. With the advent of new construction methods, such as 3D printing of concrete, the incorporation of fiber into the concrete mix when reinforcement is absent has also been investigated to improve its strength. Application of artificial intelligence to optimize the design mix and characterize material behavior has been reported in various studies. Incorporating fibers into concrete to improve the material behavior and performance of structural elements under extreme events has shown tremendous potential for the design of protective structures.

### Guest Editors

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### Deadline for manuscript submissions

31 August 2026



## Fibers

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## About the Journal

### Message from the Editor-in-Chief

*Fibers* is intended as an integrative platform, bringing together specialists with expertise concerning a large range of biological, synthetic, metallic and mineral fibers. The intent is to bring together scientists who would otherwise be unlikely to encounter each other's findings. By facilitating communication across specialties, the journal will advance understanding of the underlying commonality of many physical and chemical aspects of fibers.

We welcome submission of manuscripts from a diverse range of disciplines relating to many types of fibers utilizing a variety of research approaches.

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### Editor-in-Chief

Prof. Dr. Martin J. D. Clift

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#### Journal Rank:

JCR - Q2 (Materials Science, Multidisciplinary) / CiteScore - Q1 (Civil and Structural Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 23.1 days after submission; acceptance to publication is undertaken in 5.7 days (median values for papers published in this journal in the second half of 2025).