



Fiber Reinforced Inorganic-Based Composite Systems for Structural Applications

Guest Editors:

Prof. Dr. Valeria Corinaldesi

Dipartimento di Scienze e
Ingegneria della Materia,
dell'Ambiente ed Urbanistica,
Università Politecnica delle
Marche, 60132 Ancona, Italy

Dr. Jacopo Donnini

Department of Science and
Engineering of Matter,
Environment and Urban
Planning, Polytechnic University
of Marche, 60132 Ancona, Italy

Deadline for manuscript
submissions:

closed (30 June 2022)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to add evidence to the scientific progress achieved in the research and development of this class of composite materials for structural applications.

Topics of interest include the following:

- Mechanical characterization of the composite material with the use of innovative techniques (such as digital image correlation)
- The use of different reinforcement fabrics (made of natural fibers, hybrid fiber systems, coated fiber, etc.)
- The use of nanotechnology to improve the bond at the fiber to matrix interface
- Analytical and numerical methods for the modeling, simulation, and prediction of mechanical behavior
- Durability studies
- Analysis of the interface bond between the fabric and matrix
- Exposure to fire or high-temperature environments
- Mechanical tests on macro-scale elements (masonry or concrete elements)
- Challenges in design and field applications

Prof. Valeria Corinaldesi

Dr. Jacopo Donnini

Guest Editors





fibers



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Martin J. D. Clift

In Vitro Toxicology Group,
Institute of Life Sciences 1,
Swansea University Medical
School (SUMS), Swansea SA2
8PP, Wales, UK

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, ESCI (Web of Science), PubAg, CAPlus / SciFinder, Inspec, and other databases.

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

Contact Us

Fibers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/fibers
fibers@mdpi.com
X@JFibers