Special Issue

Preparation and Application of Sustainable Electrospun Nanofibers

Message from the Guest Editors

Electrospinning is a versatile and scalable technique that produces nanofibers by applying a high-voltage electric field to a polymer solution with suitable viscosity and surface tension. The resulting nanofibers are collected as membranes or fabrics, which can even be thermally treated to produce ceramic or carbon fibers. This Special Issue seeks to bring together researchers working on the preparation and application of electrospun nanofibers to encourage them to revise their processes for improved sustainability and share their latest findings. Special attention will be given to using natural polymers in fiber synthesis and processes that enhance preparation yield, reducing the need for raw materials. Other topics include reducing or replacing fossil-based solvents with renewable alternatives, recovering and reusing traditionally evaporated solvents during synthesis, and exploring the reuse, recovery, and recycling of electrospun nanofibers at the end of their life cycle, as well as other issues that fall within the subject covered by the title of the Special Issue.

Guest Editors

Dr. Ramiro Rafael Ruiz Rosas

Department of Chemical Engineering, Malaga University, 29010 Malaga, Spain

Dr. Francisco José García-Mateos

Departamento de Ingeniería Química, Campus de Teatinos s/n, Universidad de Málaga, Andalucía Tech, 29010 Málaga, Spain

Deadline for manuscript submissions

15 August 2025

Fibers

an Open Access Journal by MDPI

Impact Factor 3.9
CiteScore 7.4

mdpi.com/si/228506

Fibers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
fibers@mdpi.com

mdpi.com/journal/fibers

Fibers

an Open Access Journal by MDPI

Impact Factor 3.9
CiteScore 7.4

mdpi.com/journal/fibers

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.

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

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), Ei Compendex, PubAg, CAPlus / SciFinder, Inspec, and other databases.

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 23.3 days after submission; acceptance to publication is undertaken in 5.8 days (median values for papers published in this journal in the first half of 2025).