Special Issue

Advances in Micro and Nanofiber: Fabrication, Properties and Applications

Message from the Guest Editors

Nowadays, more and more attention has been paid on the fabrication, microstuructures and funcational application of micro and nanofibers. Advanced preparation methods can effectively control the microstructure of micro and nanofibers and improve the preparation efficiency. The well-designed microstructures of nanofibers can enhance materials properties with special functionalities. In addition, nanofiber materials also have advantages in functional devices: they can realize both information connection and transportation in the nanoscale and their own quantum characteristics. This Special Issue focused on the current state of the art in the preparation, properties and application of micro- and nanofibers. It aims to attract both academic and industrial researchers in order to foster the current knowledge of micro- and nanofibers and to present new ideas for future applications and new technologies. We invite authors to contribute original research articles and review articles covering the current progress on micro and nanofibers.

Guest Editors

Dr. Bing Wang

Science and Technology on Advanced Ceramic Fibers and Composites Laboratory, College of Aerospace Science and Engineering, National University of Defense Technology, Changsha 410073, China

Dr. Xiaoshan Zhang

Science and Technology on Advanced Ceramic Fiber and Composites Laboratory, College of Aerospace Science and Engineering, National University of Defense Technology, Changsha 410073, China

Deadline for manuscript submissions

closed (10 February 2025)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/156460

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

mdpi.com/journal/nanomaterials

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/journal/nanomaterials

MDPI

About the Journal

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)