# Special Issue

# Advanced Characterization of Fiber-Reinforced Composite Materials

## Message from the Guest Editors

This Special Issue aims to showcase cutting-edge research and innovative methodologies in the characterization of fiber-reinforced composites, which are crucial in advancing their applications in various industrial sectors. We welcome original contributions that explore the interfacial properties and the mechanical, thermal, and chemical–physical behaviors of these materials, utilizing both experimental and computational approaches. Topics of interest include, but are not limited to, mechanical property analysis, damage mechanics, non-destructive testing (NDT) techniques, thermal analysis, and the characterization of nanocomposites. We are particularly interested in papers that present novel micromechanics models, advanced imaging techniques, and multiscale modeling approaches that provide deeper insights into the behavior and performance of fiber-reinforced composites. This Special Issue aims to serve as a comprehensive resource for the latest advancements in the field, offering a platform for the dissemination of significant findings that can drive future research and development.

## Guest Editors

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## Deadline for manuscript submissions

20 December 2025

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## About the Journal

### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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