

Special Issue

Smart Coatings on Fibers and Textiles

Message from the Guest Editor

Today, we know that nanotechnology has been considered extensively in fiber and textile engineering in order to perform new functionalities. Smart coatings can be performed on textile products through other methods, such as plasma and laser coatings, sol-gel techniques, magnetron sputter coating, layer-by-layer techniques and crosslinking using polymers. Several properties are demonstrated using these methods, such as antibacterial, superhydrophobic, fire retardant, self-cleaning, superhydrophilic, moth-proofing, electromagnetic shielding, and electrical conductivity. In this Special Issue, original research papers, as well as reviews, are welcome. The goal is to gather contributions on various aspects related to smart coatings, including preparation, analyses, industrial uses, as well as their potential toxicity to humans during their usage.

Keywords

- surface grafting
- plasma and laser
- nanocomposites
- layer-by-layer
- sputter coating
- functionality
- toxicity.

Guest Editor

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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.

Editor-in-Chief

Prof. Dr. Martin J. D. Clift

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