



Functional Polymers and Fibers: Sensing Materials and Applications

Guest Editor:

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Message from the Guest Editor

This Special Issue focuses on the innovative applications of functional polymers and fiber sensors fabricated through the technology of solvent spinning, melt spinning, gel spinning, and so on. The fibrous polymer membranes and fibers can help to reduce the sensor size, and the number of areas and channels with the porous fibers and fibrous membranes can enhance the interaction between determinants, making them ideal for sensing in different fields such as electrochemical, optical, microwave, and mechanical sensing.

This Special Issue aims to showcase the latest innovations in the design, fabrication, and deployment of functional polymers and fibers as sensing materials, fostering discussions on novel sensing mechanisms, integration strategies, and future trends in this technology. By exploring the intricate interplay between material properties, sensor performance, and real-world applications, this collection of articles in this Special Issue will provide insights into the potential of functional polymer and fiber sensors.

- Functional polymers, fibers and composites;
- Spinning fibers;
- Porous fibers;
- Ultra-high surface area materials;
- Micro/nanofibers;





sensors



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Message from the Editor-in-Chief

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