

Special Issue

Functional Polymers and Fibers: Sensing Materials and Applications

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;

Guest Editor

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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