

Special Issue

Conductive and Functional Polymers: New Advances and Perspectives in Sensor Technology

Message from the Guest Editors

An increasing amount of interest in the development and operation of analytical devices for the detection, quantification, and monitoring of specific analytes has led to the appearance of sensors and biosensors. These devices are successfully gaining a growing number of recipients in the field of medical diagnostics, environmental protection, and food safety thanks to their high sensitivity, specificity, and ability to analyze in real-time. This Special Issue aims to highlight the fundamental research and latest advancement in the synthesis, fabrication, characterization, properties, and foresights of functional and conductive polymers for their application in the fabrication of sensors and their integration in soft robotics. Keywords

- synthesis of functional and conductive polymers
- polymers for electrode modification in biosensors
- polymers for flexible optical sensors
- polymers for chemical sensors and biosensors
- polymers for 3D printing of sensor devices
- semiconducting polymers for sensor applications

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Deadline for manuscript submissions

closed (31 July 2022)



Electrochem

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