



Polymer-Based Materials for Sensors II

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Message from the Guest Editors

Smart materials and sensor systems have attracted tremendous attention in recent years due to promising potential applications in wearable electronics, health monitoring, human motion detection, human–machine interaction, and soft robotics. Significant progress in the development of high-performance sensing devices has been achieved in recent years, particularly in terms of sensing components, sensor design parameters, morphology design, and processing techniques. One of the most critical aspects is the choice of suitable materials that meet the requirements of specific transduction mechanisms, such as piezoresistive, piezoelectric, and pyroelectric, amongst others. Thus, polymer-based materials have been widely implemented due to several advantages, such as the possible combinations with functional fillers, low cost, and compatibility with several additive manufacturing techniques. Despite recent developments, highly effective polymer-based materials with high sensitivity and resolution, and that incorporate multifunctional and self-sensing capabilities, need to be explored.





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