



Advances in Polymer-Based Sensors

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Message from the Guest Editors

Polymer-based sensors are attracting attention in various fields due to their innovative designs capable of utilizing the mechanical and chemical advantages of polymers. The excellent processability and the mechanical properties of polymers have greatly improved the sensor fabrication and measuring process, and the chemical characteristics of the polymer-based sensor surfaces have also achieved excellent results in terms of sensing performance. In addition, by adding micro-/nanostructures to the surface and internal structure of the polymer sensor, sensing performances have been greatly improved. Various studies utilizing micro-/nanostructures have been conducted, with techniques used that include sensing minute changes in the chemical substances of fluids or measuring minute mechanical deformations such as heart rate and vibration, etc. However, there are still many limitations to overcome in developing polymer-based sensors. As such, in this Issue we aim to publish excellent research results from various research fields such as healthcare, robotics, and environmental measurement.





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