Special Issue

Advances in Solid-State Conductive Ionoelastomer Based Biosensors

Message from the Guest Editors

The ion-conducting hydrogels and ionogels are highly desirable as the key components of stretchable soft electronics, ranging from artificial skins to wearable flexible biosensors and batteries, energy harvesters, soft robotics, and human–machine interaction. Compared with these state-of-the-art counterparts that suffer from inevitable evaporation, freezing and leakage issues of liquid-phase solid-state conductive ionoelastomers that are fabricated by the fusion of dry polymer and ions without a liquid phase are capable of fundamentally resolving these issues and have evolved as an ideal candidate to propel the rapid development of stretchable soft electronics. This Special Issue, titled "Advances in Solid-State Conductive Ionoelastomer Based Biosensors", focuses on the recent advances in the design principle and fabircation methods of solid-state conductive ionoelastomers, as well as their promising applications in flexible intelligent biosensros. We invite submissions of researches that help to advance the field of stretchable electronics and beyond.

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Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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