Special Issue

Artificial Skins and Wearable Biosensors for Healthcare Monitoring

Message from the Guest Editors

Artificial skin, also known as electronic skin (e-skin), refers to intelligent wearable electronics that simulate the tactile perception function of human skin to identify the detected external information changes through different electrical signals. At present, the current study on flexible tactile sensors is developing towards high resolution, high sensitivity, self-powering, visualization, biodegradability, and self-healing. However, considering the urgent demand and rapid application of flexible sensing technology in various emerging applications, there remains a great challenge in how to achieve quantification, multi-function, high stability, and durability in the actual detection process. This topic provides an excellent opportunity for those who are studying and working on the design and applications of wearable electronics. Research papers, review articles, and communications relating to the material development, structural design, mechanism interpretation, preparation process, and related circuit design of artificial skins are all invited to this Topic.

Guest Editors

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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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