Special Issue

Polyimide Based Flexible and Bio-Inspired Sensors: From Fundamental to Application

Message from the Guest Editor

Mechanically rigid sensors have disadvantages when used in intimately wearable or bio-integrated applications. While flexible electronic devices and sensors that are adaptable to polyimide (PI) as substrate materials and surfaces, will be a key enabling technology for many applications such as future display, robotics, in vitro diagnostics, advanced therapies, and energy harvesting. The rapid development of flexible electronics has made it possible to realize flexible sensors with high sensitivity and a wide detection range. The polyimide materials have attracted the attention of many researchers in the field of flexible sensors to explore polyimides in detail along with its key properties such as mechanical, thermal, electrical, etc., and understand what makes it an ideal choice in flexible and bio-inspired sensors applications. As an attractive dielectric material, polyimide has been widely used in the field of flexible and bio-inspired sensors fulfilling the increasing need for materials that can perform well under harsh conditions.

Guest Editor

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Deadline for manuscript submissions

closed (15 May 2024)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/165801

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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