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

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### 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.



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