Special Issue

Carbon Nanotube and Graphene based Piezoresistive Sensors

Message from the Guest Editor

Carbon nano structure materials, such as carbon nanotube (CNT) and graphene, have a piezoresistivity that changes their electrical conductivity based on external forces and deformations. The piezoresistivity of carbon nanomaterials can be used as a versatile sensor in various applications, including structural health monitoring, haptic sensing, and other wearable sensors. Piezoresistive sensors may require a customized piezoresistivity design to obtain proper performances such as sensitivity, linearity, stability, repeatability, flexibility, and so on. This Special Issue invites studies from various fields about piezoresistivity with experimental validation, characteristics of the piezoresistive model, industrial application, and others. The Special Issue is aimed at various technical issues of piezoresistivity of carbon nanomaterials to inspire and improve the industrial application level of the CNT and graphene-based piezoresistive sensors.

- carbon nanotube
- grapheme
- piezoresistivity
- nano composite
- strain sensor
- haptic sensor

Guest Editor

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Message from the Editor-in-Chief

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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