

Sensors and Materials

Special Issue on Carbon Material-based Chemical and Biochemical Sensors

Call for Papers

Carbon is a widely-used and well-known material and has been conventionally employed for electrochemical devices including batteries, fuel cells, and biosensors. Recently, new carbon materials, including carbon nanotubes, graphene, and diamond, have been reported and various applications for electrochemical, optical, and electrical sensors have been reported since nanotubes and diamond have unique optical and electrical properties. More practically, printing technology using newly developed carbon inks have been developed for wearable and disposable sensing devices and are considered to be applied to IoT sensors. This special issue will focus on traditional and novel carbon materials for biosensors, environmental sensors, electrochemical and optical sensors, and microfluidic devices.

Scope:

- Electrochemical sensing devices
- Novel carbon materials for sensors
- Printable and wearable sensors
- Optical sensing devices
- Microfluidic devices with carbon materials
- Biosensors

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Guest editors: Dr. Yuko Ueno (NTT Basic Research Laboratories) and Professor Osamu Niwa (Saitama Institute of Technology)

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Editorial Department of *Sensors and Materials*

MYU K.K.

1-23-3-303 Sendagi, Bunkyo-ku, Tokyo 113-0022, Japan

Tel: +81-3-3821-2930, Fax: +81-3-3827-8547

E-mail: myukk@myu-inc.jp

