

*Sensors and Materials*

**Special Issue on  
2D Materials-based Sensors and MEMS/NEMS**

Call for Papers

The discovery of graphene in 2004 revealed the excellent material properties of two-dimensional (2D) materials. With the activation of graphene research and development, various 2D materials such as hexagonal boron nitride, transition metal dichalcogenides, phosphorene, layered metal oxides and hydroxides, metal-organic frameworks (MOFs), and MXenes are also attracting attention. As material development progresses, the distinctive properties of 2D materials are stimulating device applications, and their use in MEMS and sensor devices is expected to improve the device characteristics by an order of magnitude compared with those obtained using bulk materials. With this background, this special issue of *Sensors and Materials* will focus on sensors and MEMS/NEMS based on state-of-the-art 2D materials.

Scope:

- Physical sensors
- Chemical sensors
- Bio/biomedical sensors
- Photodetectors
- Flexible devices
- Energy and power MEMS/NEMS
- Material and fabrication technologies

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