



## Functional Nanomaterials-Based Flexible Electronics

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Deadline for manuscript  
submissions:

**closed (10 June 2024)**

### Message from the Guest Editor

Dear Colleagues,

Flexible electronics have emerged as a brand new form to compensate for or even replace traditional rigid-materials-based electronic devices. There are a variety of categories of flexible devices, such as flexible electrodes, sensors, batteries, supercapacitors, and solar cells. In principle, two strategies are employed to construct flexible electrical devices, including material innovation and structural design. In particular, functional nanomaterials are considered as indispensable parts of flexible electronics. The past decade has witnessed the development of various functional nanomaterials, mainly including nanoparticles, nanowires, nanosheets, and nanoporous materials.

The purpose of this issue is to present the latest research progress on nanomaterials for flexible electronics as well as research trends and application prospects:

- Nanoparticles on flexible electronics;
- Nanowires on flexible electronics;
- Nanosheets on flexible electronics;
- Nanoporous on flexible electronics;
- Hydrogels on flexible electronics;
- Liquid metal on flexible electronics;
- Polymers on flexible electronics;
- Composites on flexible electronics ;
- Wearable electronics.





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## Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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