

Special Issue

Flexible Sensing Materials and Devices

Message from the Guest Editors

This Special Issue focuses on cutting-edge research in flexible sensing materials and devices, emphasizing design, fabrication, characterization, and applications. Topics of interest include, but are not limited to, the following:

- Novel flexible sensing materials, including conductive polymers, carbon-based nanomaterials, and hybrid composites;
- Structural design and optimization for enhanced sensing performance (e.g., sensitivity, stretchability, self-healing, biocompatibility);
- Advanced fabrication techniques, including microfabrication, template-assisted methods, electrospinning, and scalable manufacturing;
- Smart materials and 4D printing—exploring stimuli-responsive materials (e.g., shape memory polymers, hydrogels, liquid crystal elastomers) and time-evolving structures for adaptive, programmable, or self-regulated sensing;
- Flexible sensing devices for biomedical and healthcare applications, including wearable monitors, implantable sensors, electronic skin, and soft robotic interfaces;
- Integrated flexible sensing systems with signal acquisition, processing, and wireless communication for intelligent monitoring and human–machine interaction.

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About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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