

## Special Issue

# Synthesis and Characterization of Materials for Sensors

### Message from the Guest Editors

Here, we are pleased to invite you to contribute a research paper or review on the topics of the high-throughput screening of sensor materials, the synthesis and characterization of sensor materials and devices, sensor signal processing, and sensor applications, etc., in order to promote the technological development of artificial intelligence in the direction of sensor material optimization, structural design, process exploration, performance improvement, etc., and build a model for sensitive material property calculation and optimal material system mining. This Special Issue aims to promote the development of sensors. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- High-throughput screening of sensing materials.
- Synthesis and characterization of materials for s
- Intelligent processing of sensing signals.
- Preparation and application of sensors.
- Perovskite-based sensors.
- Metal oxide-based sensors.
- MEMS or MEMS array sensors.
- E-Nose.

We look forward to receiving your contributions.

### Guest Editors

Dr. Sheng Huang

Prof. Dr. Jiankun Sun

Dr. Mingzhi Jiao

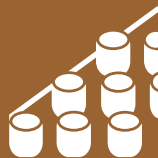
Dr. Yangyang Ju

Dr. Yue Wang

Dr. Wufan Xuan

### Deadline for manuscript submissions

20 December 2025



## Materials

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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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### Editor-in-Chief

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