

## Special Issue

# Fiber Optic Sensing Technology: From Materials to Applications

### Message from the Guest Editors

With the continuous development of technological information, optical fiber sensing technology has increasingly received attention. This Special Issue mainly focuses on a series of studies ranging from the material analysis of optical fiber sensing, to the production of sensing probes, and ultimately to their applications, such as the ultraprecision processing of optical components and the progress in sensing capabilities of optical devices, the analysis of material properties, fiber optic sensing, optoelectronic conversion demodulation technology, and advanced manufacturing methods and technologies. By combining material Ansys, optical sensing, and photoelectric conversion, the aim of this Special Issue is to consolidate the research achievements of various experts in this field and promote a wider understanding and application of optical fiber sensing technology. We welcome contributions from experts to support this endeavor.

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### Guest Editors

Dr. Na Zhao  
Dr. Changsheng Li  
Dr. Benfeng Bai

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### Deadline for manuscript submissions

closed (30 December 2025)



## Micromachines

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