



Progress in Fiber Optic Sensors: Design and Applications

Guest Editor:

Dr. Dewen Duan

School of Electronic and
Information Engineering,
Southwest University, No.2,
Tiansheng Road, BeiBei District,
Chongqing 400715, China

Deadline for manuscript
submissions:

15 May 2025

Message from the Guest Editor

Dear Colleagues,

The rapid developments in optical fiber manufacturing, fiber optic device fabrication, new functional materials, and related new technologies have renewed fiber optic sensor technology, including principles, design, and applications. In recent years, optical sensing technology has made significant progress.

This Special Issue aims at presenting an overview of the progress of the fiber optic sensors, their design, and their applications. We welcome broad, visionary contributions of short research reports as well as a collection of reviews of accomplishments. We are excited to invite researchers to submit their contributions to this Special Issue. Topics include, but are not limited to, the following:

- Fiber optic sensor designs;
- Fiber optic sensor fabrication technology;
- Fiber optic sensor applications;
- Fiber optic quantum sensors;
- Diamond nitrogen-vacancy and optical fiber integrated quantum sensors;
- Fiber optic biosensors;
- Fiber optic chemical sensors;
- Fiber optic distribution sensors;
- Fiber optical devices;
- Fiber optical microscope;
- Optical tweezers.

