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Optical Fiber Sensors for Biomedical Application

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Message from the Guest Editors

Optical fiber sensors represent a unique type of sensor technology. They have enabled the development of various sensor technologies for many different applications. One of the emerging and promising applications of optical fiber sensors is in biomedical sensors and devices. This is an up-and-coming technology that holds great potential in the areas of biomedical diagnosis and surgery. This Special Issue provides a platform for both the academic community and industry to report and share recent developments and progress within this field. Prospective authors are encouraged to send submissions of articles on, but not limited to, the following subjects:

- Novel specialty optical fibers (glass or POF) for biomedical applications
- Fiber-optic sensors, optrodes and probes for physiological, chemical, or biological sensing
- Optical fiber-tip plasmonic/metasurface biosensors
- Lab-on-a-fiber solutions
- Optical fiber-based Raman spectroscopy probes
- Optical coherence tomography (OCT) probes
- Fiber-optic diagnostic, therapeutic or treatment techniques
- Fiber catheters for robotic and minimally invasive surgery (MIS) applications
- Optical fiber-embedded plates and tapes for digital X-rays



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Special Issue



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Message from the Editor-in-Chief

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