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Innovative Schemes for Bio/Chemical Sensors Based on Specialty Optical Fibers, Metasurfaces and Optofluidics

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Message from the Guest Editors

Dear Colleagues,

This Special Issue will focus on intriguing sensing approaches for developing probes used in bio/chemical sensing. These methods include the utilization of plastic optical fibers (POFs), specialty optical fibers, metasurfaces, and optofluidics. For instance, there is a significant interest in using innovative POF-based extrinsic or intrinsic schemes. Moreover, using different receptor layers combined with optical probes to detect specific substances in different application fields is equally intriguing.

The topics of this Special Issue include, but are not limited to, the following:

- POF probes for bio/chemical sensing
- metasurfaces
- optofluidics
- specialty optical fibers for sensing
- POF-based optical chemical sensors
- POF-based sensor systems
- HW and SW for POF sensor systems
- machine and deep learning strategies for POF chips
- MathMaterial interfaces and POFs



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Special Issue



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Message from the Editor-in-Chief

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