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Optical Probes and Biosensors for Food Detection: Development and Applications

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Message from the Guest Editors

Optical probe is a non-destructive technique that uses light to investigate the quality of food at molecular, cellular, tissue, and organ levels. Because of the importance of optical probes in food analysis, the innovatively designed optical-sensing techniques require a deep understanding of the optical, material, and environmental properties that affect the performance of optical probes. Meanwhile, exploring the interaction between the detection object and the optical probe is also key for optimizing the structure of an optical probe.

In addition to the structures, many portable instruments can be used to obtain and analyze the signal generated from optical probes, including fluorescence spectroscopy, Raman spectroscopy, and ultraviolet–visible spectroscopy.

Furthermore, the technology of optical probes is being increasingly and widely applied for monitoring chemical hazardous substances in food, including pesticides, heavy metals, mycotoxins, and veterinary drugs. Meanwhile, harmful microorganisms, such as parasite, fungus, bacteria, and virus, can also be analyzed using optical probes.

This special issue welcomes submissions from relevant research scholars.



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Special Issue



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