

Special Issue

Advanced Photonic Biosensors: From Materials Research to Applications

Message from the Guest Editors

In recent decades, the field of biosensors has seen significant expansion. These sensors have the ability to identify target antigens quickly and form immunocomplexes without requiring additional reagents. Their outstanding performance in terms of specificity and sensitivity has led to their widespread adoption as an analytical tool, such as for disease detection, clinical diagnostics, environmental monitoring, and food safety control. This Special Issue is aimed at exploring the recent advancements in photonic biosensors with cutting-edge techniques as well as state-of-the-art demonstrations. Research articles focusing on innovative photonic sensors, novel immobilization techniques, advanced detection strategies, and integrations or miniaturizations are encouraged for submission.

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