Special Issue

Fluorescence Based Biosensing Applications

Message from the Guest Editor

Fluorescence-based biosensing has been applied in various fields such as medical diagnostics, environmental monitoring, and inspection for food safety. Fluorescence detection is based on the use of fluorophores that emit light when excited by light of a shorter wavelength. In the simplest enzymatic fluorescence-based biosensing, an increase in the fluorescence intensity, resulting from the enzymatic conversion of a fluorogenic substrate to a fluorophore, is measured. Nowadays, numerous parameters besides the intensity, such as fluorescence anisotropy, decay time, energy transfer, and quenching have been explored in fluorescence-based biosensing. Aggregation-induced emission is a novel photophysical phenomenon which offers a new platform of fluorescence application.

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Deadline for manuscript submissions

closed (30 June 2021)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/50319

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