Special Issue

Electrochemical Biosensors for Global Health Challenges

Message from the Guest Editor

Global health is facing unprecedented challenges, from emerging infectious diseases and antimicrobial resistance to environmental pollutants, all of which necessitate accurate and accessible diagnostic solutions. This Special Issue will highlight cutting-edge advancements in electrochemical biosensing technologies designed to address critical issues, such as early screening in the detection of diseases, the immediate detection of infectious diseases, the rapid detection of antibiotic resistance, and emerging environmental pollutants. We invite contributions exploring innovative sensor designs, nanomaterials, signal amplification strategies, and portable platforms for early disease screening (e.g., cancer, neurodegenerative disorders), point-of-care diagnosis of infections (e.g., COVID-19, malaria), antimicrobial resistance monitoring, and the detection of emerging environmental contaminants (e.g., microplastics, pesticides). An emphasis will be placed on scalability, affordability, and real-world applicability, particularly in low-resource settings. Reviews exploring current challenges and future directions are also welcome.

Guest Editor

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Chemosensors continues to grow as a forum for all manners of sensing that encompass chemistry. *Chemosensors* is published in open access format – all articles and content are released on the internet immediately following acceptance, thus allowing unlimited access to the content as soon as it is published. We would be happy to have you join our growing list of authors.

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