

Special Issue

Material-Based Biosensors and Biosensing Strategies

Message from the Guest Editors

The Special Issue will focus on novel materials such as nanomaterials, conductive polymers, and biomimetic structures that are revolutionizing the biosensing landscape. We seek original research articles and reviews that highlight the synthesis, characterization, and application of these materials in biosensing applications. Topics of interest include, but are not limited to:

1. Nanomaterials in Biosensing: The use of nanoparticles, quantum dots, and nanocomposites to improve biosensor performance;
2. Biomaterials: Exploration of natural polymers and biorecognition elements that enhance sensor functionality;
3. Microfluidic and Lab-on-a-Chip Technologies: Innovations in integrating materials into miniaturized platforms for real-time analysis;
4. Smart Biosensing Strategies: Development of biosensors with advanced signal transduction mechanisms, including electrochemical, optical, and piezoelectric methods;
5. Applications: The practical application of material-based biosensors in clinical, environmental, or agricultural settings.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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