# **Special Issue**

# Advanced Sensing Technologies in Drug Delivery: Progress, Challenges, and Future Perspectives

## Message from the Guest Editor

Advanced sensing technologies have emerged as transformative tools for drug delivery, enabling the precise control and real-time monitoring of therapeutic administration. These innovations have been applied in various medical applications, such as personalized medicine, responsive drug release, and point-of-care solutions. In this Special Issue, we would like to invite you to contribute research articles, reviews, or perspectives on the latest advancements in sensor technologies for drug delivery. Topics of interest include the development of high-sensitivity sensors for controlled drug release, innovative biosensing platforms for real-time drug monitoring, and feedback-regulated drug delivery systems. We also welcome research and development on implantable, wearable, and point-ofcare devices that integrate advanced sensing technologies. Theoretical research focusing on the interactions between biological systems and sensor materials is encouraged, as are in-depth reviews on current trends and future challenges in this rapidly evolving field.

#### **Guest Editor**

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#### Deadline for manuscript submissions

closed (31 May 2025)



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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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