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3D-Printed Biosensors

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Message from the Collection Editor

While inkjet printing has been applied as a surface functionalization process over the past decade, recent advances in structural, functional, and biological materials printing capabilities and processes provide new opportunities in biosensor design, fabrication, integration, and application. This Special Issue is dedicated to recent progress in 3D-printed biosensors. Original research articles reporting advances in 3D-printed biosensor transduction elements such as electrodes and stimuli-responsive materials, 3D-printed biosensor-integrated microfluidic systems such as biosensor-integrated tissue and organ chips, 3D-printed hydrogel-based biosensors, and applications of 3D-printed biosensors are encouraged. Related studies beyond these topics that report advances in 3D-printed biosensors and biosensing using 3D-printed platforms are encouraged.

This topic is central to describing the emerging landscape of manufacturing processes for biosensor fabrication, specifically expanding the use of additive manufacturing processes for biosensor design, fabrication, and application.



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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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