

Special Issue

Screen-Printed Electrodes in Biosensors: Assembly, Characterization and Applications

Message from the Guest Editors

Screen-printed electrodes (SPEs) have supported the development of biosensor technologies by providing cost-effective, scalable and versatile platforms for real-time analyses in healthcare, environmental monitoring and food safety. Recent advances in electrode materials, functionalisation strategies and the integration of nanotechnology have improved their sensitivity, selectivity and stability, increasing their relevance to science and society. Their use today has widened to other applications beyond traditional electrochemistry. This Special Issue focuses on the latest developments in SPE assembly, surface modification and novel formats of detection. By linking basic research and real-world applications, the aim in this Special Issue is to highlight innovative approaches that push the boundaries of electrochemical biosensing.

We invite authors to present the current state of the art of SPE-based biosensors and their emerging advances, aimed at improving analytical performance and their future use in diagnostics and point-of-care technologies as well as in environmental, food and industrial monitoring.

Guest Editors

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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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