

biosensors

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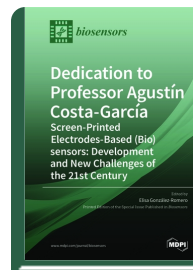
Special Issue Reprint

Dedication to Professor Agustín Costa-García: Screen-Printed Electrodes-Based (Bio)sensors: Development and New Challenges of the 21st Century

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The main topic of this book is Screen-Printed Electrode (SPE) transducers used as miniaturized and disposable detection devices for specific chemical (or set of chemicals) and biomolecule analyses in different fields with serious concerns worldwide (such as healthcare, food quality, food safety, and pollution). Thus, this book gathered original articles and reviews presenting research advances, fabrication, innovative applications, new challenges, and future perspectives for SPE-based (Bio)sensors in important areas such as health, agri-foods, and the environment.

Screen-printing is a promising method for “fast and cheap” production of (bio)sensors. Disposable (bio)sensors based on SPEs have led to new possibilities in the selective detection and sensitive quantification of a large number of chemicals and biomolecules. SPE-based sensors, including microelectrodes (metallic and non-metallic) and modified electrodes (by chemical/electrochemical reactions or by nanomaterials integration), are in tune with the growing need for the development of portable devices and for performing rapid and accurate in situ analyses.



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