

Special Issue

Diamond Technology for Biosensing and Quantum Sensing

Message from the Guest Editors

In the last few decades, diamonds have attracted increasing attention in a wide range of fields, thanks to its peculiar properties such as biocompatibility, hardness, chemical stability and transparency. The possibility of tailoring its structural, optical and surface properties has opened up a wide variety of applications. Most significantly, cutting-edge experiments exploring novel frontiers of cellular/biosensing have been performed thanks to the development of diamond-based platforms specifically designed for bio/quantum sensing. The goal of this Special Issue is to collect all novel diamond and nanodiamonds-based technologies devoted to sensing or lab-on-a-chip fabrication, including both original research and review articles. Suitable topics will include surface biochemical functionalization, micro nanotechnological modification of diamond, color centers creation for optical sensing, quantum sensing application in biology, microfluidic and lab on chip devices, as well as demonstrative in vitro and in vivo applications.

Guest Editors

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Deadline for manuscript submissions

closed (31 March 2025)



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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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