Special Issue

Advances in Wearable Biosensors for Healthcare Monitoring

Message from the Guest Editors

This Speical Issue “Advance in Wearable Biosensors for Healthcare Monitoring”, is devoted to all aspects of wearable biosensors, including the novel synthesis of nanomaterials for biosensing, unique designs for wearable biosensors, integration of micro-systems and the key applications in healthcare monitoring. Especially, novel structural designs of wearable biosensors coupled with functional nanomaterials enable a real-time monitoring of health status at both biophysical and biochemcial levels. For example, CNTs, Mxenes, and graphene-based biosensors show great advantages for both biophysical (temperature, breathing and heart rate) and biochemical (electrolytes, metabolites, drugs in biofluids) sensing. Meanwhile, the involvement of energy harvesters, microfluidics and digital display can further enhance the practical applications of wearable biosensors for healthcare monitoring. This Special Issue aims to focusing on the most recent advances of the wearable biosensors for healthcare monitoring and a wide range of applications is of interest, including point-of-care, therapeutic, and implantable devices.

Guest Editors

Dr. Yu Song

Department of Medical Engineering, Division of Engineering and Applied Science, California Institute of Technology, Pasadena, CA 91125, USA

Dr. Bo Meng

College of Physics and Optoelectronic Engineering, Shenzhen University, Shenzhen 518060, China

Deadline for manuscript submissions

closed (15 October 2024)

Biosensors

an Open Access Journal by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed

mdpi.com/si/139959

Biosensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biosensors@mdpi.com

mdpi.com/journal/biosensors

Biosensors

an Open Access Journal by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed

mdpi.com/journal/biosensors

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.

Editor-in-Chief

Prof. Dr. Giovanna Marrazza
Department of Chemistry "Ugo Schiff", University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.8 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).

MDPI