Special Issue

Flexible Optical and Electrical Biosensors

Message from the Guest Editors

There's an increasing demand for deformable optical and electrical devices in the healthcare industry. Flexible light-emitting diodes and photodetectors can be widely used in infrastructure, manufacturing, and athletic healthcare. From the standpoint of materials, carbonbased nanomaterials, such as carbon nanotubes (CNTs) and graphene, are widely used materials in flexible pressure sensors. Semiconductors are also a large portion of flexible and stretchable sensors. Organic semiconductors and solution-processed halide perovskites bring new possibilities to deformable optoelectronics. Perovskites have attracted numerous studies due to their exceptional optical and electrical properties since 2009. Flexible and stretchable lightemitting diodes and photodetectors based on perovskites and polymer composites have also been reported since 2015. There are other types of materials that can be used in deformable optical and electrical devices, such as metal-organic frameworks (MOFs). It is believed that there will be more and more reports of novel materials that can be used in deformable devices that benefit human health and development.

Guest Editors

Dr. Xin Shan

Department of Industrial and Manufacturing Engineering, High-Performance Materials Institute, FAMU-FSU College of Engineering, Florida State University, Tallahassee, FL 32310, USA

Prof. Dr. Cosimino Malitesta

Laboratorio di Chimica Analitica, Dipartimento di Scienze e Tecnologie Biologiche ed Ambientali (DiSTeBA), Università del Salento, Via Per Monteroni, 73100 Lecce, Italy

Deadline for manuscript submissions

closed (15 March 2022)



Biosensors

an Open Access Journal by MDPI

Impact Factor 5.6 CiteScore 9.8 Indexed in PubMed



mdpi.com/si/59374

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



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).

