



sensors



an Open Access Journal by MDPI

Synthesis and Sensor Applications of Hybrid Bionanomaterials

Guest Editors:

Prof. Dr. Gang Wei

1. College of Chemistry and
Chemical Engineering, Qingdao
University, Qingdao 266071,
China

2. Faculty of Production
Engineering, University of
Bremen, D-28359 Bremen,
Germany

Prof. Dr. Tibor Hianik

Faculty of Mathematics, Physics
and Informatics, Comenius
University, Mlynská dolina F1, 842
48 Bratislava, Slovakia

Deadline for manuscript
submissions:

closed (31 May 2021)

Message from the Guest Editors

Dear Colleagues,

The design and synthesis of structure- and function-specific nanomaterials has made great contributions to the development of novel sensors and biosensors for various applications in biomedicine, food analysis, environmental monitoring, gas sensing, and others. Recently, more efforts have been made to create hybrid bionanomaterials for promoting their sensor applications. For instance, many biological molecules like DNA, proteins, peptides, enzymes, viruses, and biopolymers have been combined with other functional nanomaterials such as carbon nanotubes, graphene, graphene-like two-dimensional materials, nanoparticles, quantum dots, and some others to form functional hybrid bionanomaterials, which have also shown wide applications for the fabrication of electrochemical, electronic, fluorescent, spectroscopic, colorimetric, and mechanical force sensors for the detection of metallic ions, drugs, small molecules, biomacromolecules, cells, cancer biomarkers, and gases.



mdpi.com/si/39490

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)