Special Issue

Synthesis and Sensor Applications of Hybrid Bionanomaterials

Message from the Guest Editors

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.

Guest Editors

Prof. Dr. Gang Wei

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

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)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/39490

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

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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

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