Special Issue

Surface Modification of Functional Nanomaterials for Biosensing Purposes

Message from the Guest Editors

The design and development of electrochemical or optoelectronic biosensors is a highly challenging venture. Some of the most critical issues concern the utilization of highly complex composite electrodes, characterized by ambiguous charge transfer kinetics. Next, the anchoring of biological molecules used in the majority of current biosensors, onto either metallic or carbonaceous surfaces, is a particularly demanding aspect of surface synthesis. This procedure cannot be approached by chance, and requires a good understanding as the immobilized biomolecule on the surface of electrode must persistently retain its biological activity in relation to the recognized analyte. High sensitivity, selectivity, and reproducibility are the most demanded features, often offering not only qualitative but also quantitative analysis of target compounds.

It is our pleasure to invite you to submit full papers, communications, and reviews focused on functionalization routes, optical and electrochemical methods, functional materials, structure-related properties, and applications for biosensing are all welcome.

Guest Editors

Prof. Dr. Jacek Ryl

Institute of Nanotechnology and Materials Engineering, Faculty of Applied Physics and Mathematics, Gdansk University of Technology, 80-233 Gdansk, Poland

Dr. Robert Bogdanowicz

Department of Metrology and Optoelectronics, Faculty of Electronics, Telecommunications and Informatics Gdansk University of Technology, Gdansk, Poland

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

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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