

Special Issue

Fundamental Innovation and Device Engineering of Biosensors Driven by Advanced Functional Materials

Message from the Guest Editors

We are pleased to launch this Special Issue of *Biosensors*, entitled "Fundamental Innovation and Device Engineering of Biosensors Driven by Advanced Functional Materials". This Special Issue focuses on the core material bottlenecks of biosensors, highlights the in-depth integration of "material–interface–sensing mechanisms", and aims to disseminate basic research in the field of biosensors. Research achievements from materials science, analytical chemistry, micro–nano–processing, and other fields are welcome to be submitted to this Special Issue. This Special Issue's scope includes, but is not limited to:

- The construction of biosensing interfaces based on two–dimensional materials (MXene, black phosphorus, graphene, MOFs/COFs, metal nanoclusters);
- Optimization of sensing performance of biomimetic materials (biomimetic cell membranes, molecularly imprinted polymers, biomimetic enzymes);
- Application of flexible/stretchable/self-healing polymer materials in flexible biosensors;
- Sensing mechanisms and device integration of photo/electro/magnetically responsive smart materials;
- Synergistic sensing design of micro–nano–structures (nanowires, microfluidic chips, photonic crystals) and materials.

Guest Editors

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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.

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