

Special Issue

Key Enabling Technologies Based on Micro and Nanotechnology for Biosensors

Message from the Guest Editors

Biosensors are attracting significant interest in the fields of medicine, environment, and the food industry. This is because of their potential applications in the detection and quantification of a wide range of toxic agents (contaminates such as pesticides; heavy metals; and volatile organic compounds found in food, air, and drinking water capable of causing intoxication, disease, or chronic illness); diverse, clinically important pharmacologically species (pathogenic organisms, active molecules, microbial metabolites, and disease markers); and by-products of the food industry processes (e.g., ethanol, glucose, and bioactive compounds to indirectly measure the process conditions and quality of the products). Micro and nanotechnology are playing an increasingly important role in the progress of biosensors, allowing the development of sophisticated instrumentation in cheap and portable microsystems. The goal of this Special Issue is to encourage scientists to publish as much detail as possible related to all aspects of biosensors based on micro and nanotechnology, from their theory and design to the applications of complete sensing devices.

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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.

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