

Special Issue

Nature Inspired Engineering: Biomimetic Sensors (2nd Edition)

Message from the Guest Editors

Nature provides a huge source of inspiration for sensor design. Among them, electronic tongue and electronic nose are analytical devices based on a series of partially selective chemical sensors or biosensors and multivariate data processing tools. These sensors have been employed in a wide range of applications, including the classification of samples by purpose, taste quantification, and flavor assessment. Biomimetic sensors simulate the human perception system, detect various external stimuli, and surpass the level of human senses in terms of sensitivity, selectivity, and accuracy, helping people to understand the unknown world and facilitating daily life. In this Special Issue, we will focus on the latest research on biomimetic sensors, from basic theory to application. We welcome both review articles and original research papers on, though not limited to, the following areas:

- Biomimetic sensing;
- Bioinspired sensors;
- Electronic/Bioelectronic tongue;
- Electronic nose;
- Taste sensor;
- Odor-sensing arrays;
- Cell sensors;
- Food Sensors;

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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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