Special Issue

Recent Advancements in Olfaction and Electronic Nose

Message from the Guest Editors

The electronic nose (e-nose), which was proposed by Dodd and Persaud at Warwick University in 1982, is an array of gas sensors associated with a pattern-recognition framework that identifies and classifies odorant and non-odorant chemicals. The sensor array is the most important part of the e-nose. In the past several decades, e-nose systems based on those sensors were proven to be promising tools in many fields, such as the standardization and visualization of smell, the diagnosis of diseases, the quality assessment of foods and beverages, the monitoring of environmental pollutants, process monitoring, the detection of explosives/toxicants/drugs, and scent-related industries including perfume/cosmetics/wine/coffee. The aim of the present Special Issue is to report recent advances in electronic nose for addressing these challenges, including progress in sensor materials development, achievements in intelligent signal processing algorithms and methods, novel measurement techniques, practical applications, etc.

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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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