

Special Issue

Electronic Tongues: Recent Strategies and Applications

Message from the Guest Editor

Chemical sensors of limited selectivity may be used in the sensor arrays of electronic tongue systems, dedicated to the automatic analysis of complex liquid samples. The measured signals of the sensor arrays form a sample fingerprint carrying an increased amount of information, since the signal of each cross-sensitive sensor is affected by many components. The analysis of the signals obtained from the arrays requires the use of chemometric tools, which results in a sample's classification or the determination of its individual components. Therefore, electronic tongue systems based on various sensor array designs and chemometric strategies have been successfully exploited in many different fields, ranging from foodstuffs and environmental control, to pharmaceutical and medical diagnostics, as well as process monitoring. The aim of this Special Issue is to collect recent developments in electronic tongue systems, including various architectures of sensor arrays (classical and hybrid platforms), data treatment strategies as well as specific fields of application.

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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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