

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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