



sensors



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Electronic Noses III

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Message from the Guest Editor

The development of electronic tongues and, recently, noses has been a popular trend in recent decades, with several groups worldwide preparing novel sensing systems. In comparison with the traditional analytical instrumental methods of analysis using expensive and complex equipment, electronic noses are relatively cheap and easy to handle. Electronic noses usually integrate an array of non-specific sensors, together with statistical tools for the analysis of data. Ideally, each sensor differs in their response to the volatile compounds generated by the sample, creating a characteristic fingerprint. This kind of system can be applied even to complex samples such as food or biological samples for quantification, classification, sensorial analysis, and quality evaluation purposes. This SI is intended to be a timely and comprehensive Issue on recent and emerging concepts and technologies in the area of electronic noses including metal-oxide semiconductors and polymers. Topics include but are not limited to systems based on metal-oxide sensors, polymers, color changes, other variations in optical properties, quartz crystal microbalance, and surface acoustic wave sensors.



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Special Issue



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Message from the Editor-in-Chief

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