



Multisensor Arrays for Environmental Monitoring

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Message from the Guest Editor

So far, we have widely employed sensor units, which have yielded signals regarding electromagnetic radiation (vision), acoustic waves (audition), pressure, temperature, and motion (somatosensation). In many tasks where the selectivity is not demanded as much, chemical sensors have found a market niche because of the high sensitivity obtained recently due to great success in material science and micro- and nano-electronics technologies. To approach the selectivity issue in the same way as the human olfaction system, we have used vector signals or patterns generated by multisensor arrays or single sensors operated under varying conditions. Analyte-specific multisensor patterns are processed by corresponding algorithms recently developed by information technologies. However, so far these multisensor units have not found a significant market that requires new breakthroughs in the field. Therefore, we invite applicants to look over the recent advances in multisensor arrays and call for innovative works that explore frontiers and challenges in the field.





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