

Special Issue

Innovative Sensor Devices for the Environmental Monitoring

Message from the Guest Editors

Considering the pollution events affecting urban areas and remote and rural zones, it has become necessary to develop new sensitive and highly selective devices able to monitor aggressive pollutants. Chemical pollutants are both gaseous species and particulate matter.

Monitoring of both primary and secondary pollutants implies the use of analytical devices, such as samplers and sensors, which need to be specific, highly selective, miniaturizable, low-cost, easy to handle, and equipped of wireless connection for acquiring the signal from “remote” systems. To achieve all these analytical performances, high technology (recently also Electroanalytical Chemistry) combined with innovative functionalized nanomaterials have been developed on a large scale. In this way, it is possible to acquire a more representative knowledge of photochemical smog phenomena, responsible for the release of several precursors species. Moreover, portable devices can be equipped with a regeneration system to provide a long time autonomy for “in situ” applications.

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