

Special Issue

Electrochemical Sensors for the Detection of Environmental Pollutants

Message from the Guest Editors

At present, the detection and monitoring of environmental pollutants represent a critical global challenge due to the increasing prevalence of industrialisation and urbanisation. Currently, carbon-based nanomaterials (such as carbon nanotubes, graphene, carbon dots, and biochar-derived nanostructures) are gaining significant attention for their unique physicochemical properties, including high surface area, electrical conductivity, chemical stability, and tunable surface functionalities. These features make them excellent candidates for developing sensitive, selective, and cost-effective sensors for environmental monitoring.

Suitable topics for this Special Issue include, but are not limited to, the following:

- Fabrication and design of carbon nanomaterial-based sensors

- Functionalization strategies to enhance sensitivity and selectivity

- Electrochemical, optical, and gaseous sensing platforms

- Environmental applications in water, air, and soil pollutant detection

- Sustainability aspects of nanomaterial-based sensors

Guest Editors

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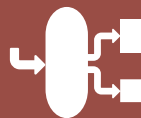
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