



Recent Advances in Environmental Analytical Chemistry Technology

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Message from the Guest Editor

The goal of many organizations in modern times is to find solutions to global environmental issues and to ensure environmental sustainability. Global environmental issues consist of climate change, toxic industrial waste management, the use of mineral fertilizers and pesticides in agriculture, effects caused by chemical industries, and water pollution at local and global scales. In order to become aware of these problems, it is necessary to use analytical methods that provide information about the existing state of the environment. By knowing the changes in time and the natural background contents, conclusions can be drawn about environmental sustainability.

The aim of this Special Issue is to promote the usage of different laboratory methods and techniques in environmental research. The innovative analytical methods covering (but not limited to) aquatic and soil organic carbon measurement and monitoring, humic substances and toxic chemicals analysis, water pollution detection and prevention, etc., are invited. Studies describing the usage of chromatography (GC, HPLC), spectroscopy (UV-Vis, fluorescence, FTIR, NMR), hyphenated methods like ICP-MS, GC-MS, HPLC-MS, and TGA-MS, and their advancements as well as data treatment methods are welcome.

Suggested themes:

- The applications and advancements of well-known analytical methods;
- Technology advancements: improvements in techniques and skills that decrease climate change and not-reversible environmental change;
- Carbon compounds' quantity and quality and the changes in environment;
- The monitoring and identification of inorganic and organic pollutants;
- Environmental analysis data treatment methods.





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Message from the Editor-in-Chief

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