

Special Issue on  
**Biomonitors, Biomarkers, and Biosensors for  
Environmental Pollution**

# CALL FOR PAPERS

Surveying chemical pollution in the environment is increasingly achieved through biological monitors, that is, animal and plant organisms capable of providing us with the necessary data. For example, in the wake of contamination events, they may become vectors of toxic molecules or heavy metals or accumulate them in their bodies or their products. Biomonitoring is a promising and cheap method of observing the impact of external factors on ecosystems, their development over a long period, and the differentiation between one location (an unpolluted site) and another (polluted site). Biomonitors usually complement the information provided by traditional monitoring systems, especially with respect to the bioavailability of pollutants. However, in some cases, for example, in remote rural locations where it is not possible to install electronic measuring devices, they are the only feasible option. The advantage of biomonitors over chemical or physical detectors is their ability to supply more extensive spatial and temporal data, thus making the resulting data much more representative.

Although the use of biological organisms to evaluate environmental pollution is becoming more frequently reported in the scientific literature, there are still several questions that have not been answered regarding their use. These include considerations such as their precision and accuracy, validation, calibration, harmonization, and performance with respect to instrumental chemical analysis methods. This Special Issue seeks to collect research and review articles on these topics, demonstrating both technical advances and practical implementations.

Potential topics include but are not limited to the following:

- ▶ Environmental pollution studies employing biomonitors, biomarkers, and biosensors
- ▶ Advances in the interrogation and interpretation of biomonitors, biomarkers, and biosensors
- ▶ New methods in the employment of biomonitoring, biomarkers, and biosensors
- ▶ Comparative studies between biomonitors, biomarkers, or biosensors and chemical analytical techniques
- ▶ Investigation of new biological species for biomonitoring purposes
- ▶ Studies into the sorption of pollutants by biological species

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jchem/environmental.chemistry/bbbe/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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