

Special Issue on
**Monitoring Pollutants: Accumulation, Health Effects and
Remediation Strategies**

CALL FOR PAPERS

The monitoring and accumulation of various chemicals, industrial effluents, heavy metals, and their methods of detoxification constitute major problems in understanding environmental pollution. Organic pollutants in freshwater or seawater also pose numerous problems to human health as well as biota on land and sea. Their continuous monitoring and exploration of the methods of remediation are the need of the hour. Increased population and industrial growth already overrun the earth with huge amount of toxic substances and pollutants and we need to develop the techniques with the minimum generation with high reusability or recyclability of byproducts or pollutants. This issue will also focus on the problems of pollutants in aquifers coming from cities wastes containing antibiotics, dyes, contraceptive, drugs, and paints which cause serious health problems in societies. The use of pesticides, chemical fertilizers in the crops, and wax spray in the fruits and vegetables had contaminated the soil heavily. This issue will also focus on the effects and harmful consequences of the contaminants and their removal strategies. The special issue will include various bioremediation strategies and prevention measures to minimize the toxicity and impacts of the various metal ions, nanoparticles, e-wastes, and industrial effluents and their effect in human health. The goal of the journal is to understand the generation and flow of various toxic materials in the living system and exposure of the living cells to the harmful pollutants. The special issue will also emphasize the advanced analytical procedures, biosensors, and electrochemical techniques for assessment of toxicants and potential role of microbial enzymes and whole cells in free and immobilized form to detoxify the toxicants or their conversion into nonharmful compounds. The submitted manuscripts will undergo initial evaluation by editors and then be subjected to rigorous peer review by international reviewers.

Potential topics include but are not limited to the following:

- ▶ New trend in nanoproducts production and role of nanotechnology for remediation
- ▶ Chemical Toxicity, accumulation, and harmful effects of urban wastes containing antibiotics, dyes, contraceptive, drugs, paints, etc.
- ▶ Various bioremediation strategies and prevention measures to minimize the toxicity
- ▶ Environmental impacts of the metal ions, nanoparticles, e-waste, medical waste, and industrial effluents and their effects on organisms
- ▶ Analytical methods, biosensors, and electrochemical analysis for assessment of toxicants and their impact in human health
- ▶ Potential role of microbial enzymes and whole cells in free and immobilized form to detoxify the toxicants
- ▶ New trend in nanoproducts production and role of nanotechnology for health effects and their remediation

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jt/pmac/>.

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

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