

Special Issue on
**New Trends in Monitoring and Removing the Pollutants
from Water**

CALL FOR PAPERS

The development of the human society over the last hundred years has resulted in a sharp increase in the number and amount of pollutants emitted into the environment, leading to the occurrence of severe imbalances. At the same time, an important technological advance was registered, allowing the detection and analysis of the various pollutants eliminated in the environment.

Industries such as paper, textiles, electronics, machine building, chemical, pharmaceutical, cosmetics, electrochemical manufacturing, and extractive industries use raw materials responsible for the induction of various pollutants in the environment, which modify the biological cycle, with severe repercussions on the human life. At the same time, waters can dissolve many compounds with high environmental toxicity, which affects their quality, making them improper for the human consumption. The toxicity of many pollutants has been emphasized, but new studies are necessary to prove how they interact, severely affecting the environment.

Development of new materials and the widespread use of nanotechnologies have enabled the development and minimization of the equipment necessary for the detection and monitoring of various pollutants from water. For today's society, it is vital that the efforts in the field of environmental protection be transformed into concrete actions for reducing the number and the quantity of pollutants that come into the environment, accidentally or not.

Besides the knowledge gained from a large number of laboratory research undertaken to identify the effects of pollution, there remain some open questions regarding the development of new technologies for the pollutants detection and monitoring, even if they are found in traces, in air and water. Besides this, there is a continuous concern for discovery and development of new materials capable of eliminating the pollution, without introducing new pollutants into the environment at the end of the technological process.

Potential topics include but are not limited to the following:

- ▶ Pollutants' detection, monitoring, and transport in water
- ▶ Pollutants' removal from water
- ▶ Electrochemical and biological remediation of water
- ▶ Modeling the adsorption of pollutants from water

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

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

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