Special Issue

Pesticide and Emerging Organic Pollutant Analyses and their Ecotoxicological Evaluation in Soil and Aquatic Environments

Message from the Guest Editors

Recent studies have shown that pesticides and emerging organic pollutants (PEOPs) are widespread in soil and aquatic ecosystems, and these contaminants of increasing concern strongly inhibit the normal health functions of terrestrial and aquatic organisms. Analytical protocols and eco-toxicity assessments should be developed to determine the presence of PEOPs and their metabolites and ensure that they are not harmful to soil and aquatic ecosystems. Potential topics can include, but are not limited to:

- Monitoring PEOPs in rivers, sea, fish and marine products
- Monitoring PEOPs in agricultural soils and crops
- Analytical studies to detect PEOPs in soil and aquatic environments, including sludge
- Development of biomarkers to detect PPCPs in soil and aquatic organisms
- Omics studies to develop biomarkers to monitor how PEOPs affect soil and aquatic organisms
- Environmental fate of PEOPs in soil and aquatic ecosystems, including crops
- Environmental risk assessment related to PEOPs in soil and aquatic ecosystems

Keywords: pesticides, emerging organic pollutants, analysis, ecotoxicology, treatments

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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