Special Issue

Impacts of Emerging Agricultural Pollutants on Environmental Health

Message from the Guest Editors

The intensification of agricultural practices in recent decades has resulted in significant soil contamination, the emerging agricultural contaminants pose serious risks to soil ecosystems. They can disrupt soil biota across multiple trophic levels, leading to declines in soil biodiversity. This loss of biodiversity, in turn, compromises key ecosystem functions such as nutrient cycling, organic matter decomposition, nitrogen fixation, and carbon sequestration. These disruptions threaten not only soil health but also the long-term sustainability and resilience of agricultural systems.

Accordingly, this Special Issue invites submissions that address: a) the effects of emerging agricultural pollutants on terrestrial and aquatic organisms; b) the effects of emerging agricultural pollutants on soil functions and essential ecosystem services for sustainable agriculture; and c) the transport, fate, and transformation of emerging pollutants within agroecosystems and their potential transfer across environmental compartments (e.g., soil-water-plant systems).

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