

Special Issue

Pesticides and Their Residues: Impacts on Crops, the Environment, and Biodiversity

Message from the Guest Editors

This Special Issue invites original research articles, reviews, and short communications that explore the multifaceted impacts of pesticides and their residues on agricultural products, environmental systems, and biodiversity. Topics of interest include, but are not limited to, (1) residue data from crops generated with high-throughput detection or novel exposure-assessment tools; (2) studies on the spatiotemporal distribution and transformation of pesticides in soil, water, air, and non-target organisms; (3) toxic effects from the molecular to ecosystem level and pathways linking pesticide stress to biodiversity loss; and (4) eco-engineering innovations and policy-economic analyses that cut pesticide use and emissions. Papers that integrate multi-omics, big data, or life-cycle assessment to advance precision application, biological alternatives, or ecological-compensation strategies are especially encouraged.

Guest Editors

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Dr. Menglei Xu
Dr. Johann G. Zaller

Deadline for manuscript submissions

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