

Special Issue

Pesticide Impact on Soil Health with Effective Counterplans

Message from the Guest Editors

The intensive use of pesticides in modern agriculture has raised significant concerns about their adverse impacts on soil health, which is fundamental to sustainable food production and ecosystem balance. Historically, while pesticides have contributed to crop protection and yield maximization, their persistent residues have disrupted soil biodiversity, reduced microbial activity, and degraded soil structure and fertility. This Special Issue aims to explore both the detrimental effects of pesticides on soil ecosystems and innovative counter-strategies that mitigate these impacts. The scope of this Issue covers a wide range of interdisciplinary research, focusing on the mechanisms of pesticide-induced soil degradation and the development of eco-friendly alternatives. Cutting-edge research on biopesticides, soil bioremediation techniques, integrated pest management (IPM), and advancements in soil health assessment tools will be highlighted. We are soliciting high-quality articles, reviews. Contributions that combine experimental studies with modeling approaches and modern statistical analyses or explore the socio-economic aspects of pesticide alternatives are also highly encouraged.

Guest Editors

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