



Environmental dynamics of pesticides: sources, impacts on amphibians, nanoparticles, and endophytic microorganism remediation

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Abstract

Pesticides, which are widely used in agriculture, have elicited notable environmental concern because they persist and may be toxic. The environmental dynamics of pesticides were reviewed with a focus on their sources, impacts on amphibians, and imminent remediation options. Pesticides are directly applied in ecosystems, run off into water bodies, are deposited in the atmosphere, and often accumulate in the soil and water bodies. Pesticide exposure is particularly problematic for amphibians, which are sensitive indicators of the environment's health and suffer from physiological, behavioral, and developmental disruption that has "pushed them to the brink of extinction." Finally, this review discusses the nanoparticles that can be used to tackle pesticide pollution. However, nanoparticles with large surface areas and reactivity have the potential to degrade or adsorb pesticide residues during sustainable remediation processes. Symbiotic microbes living inside plants, known as endophytic microorganisms, can detoxify pesticides. Reducing pesticide bioavailability improves plant resilience by increasing the number of metabolizing microorganisms. Synergy between nanoparticle technology and endophytic microorganisms can mitigate pesticide contamination. Results show that interdisciplinary research is necessary to improve the application of these strategies to minimize the ecological risk of pesticides. Eco-friendly remediation techniques that promote sustainable agricultural practices, while protecting amphibian populations and ecosystem health, have advanced our understanding of pesticide dynamics.

Keywords Pesticides · Toxicity · Amphibians · Nanoparticles · Endophytic microorganisms

Introduction

Many amphibians, which are key components of ecosystems, are experiencing unprecedented crises, and are rapidly becoming extinct (Silva et al. 2019; Hernández Martínez de la Riva et al. 2023; Islam and Sengupta 2023; Marion et al. 2023; Xiong et al. 2023). We have crashed the world population owing to environmental changes, especially pesticides. They have also been used to kill other organisms such as amphibians (Scala et al. 2019; Acquaroni et al. 2022; Garcês and Pires 2023; Lopes et al. 2023), and have been toxic to

these organisms, which has resulted in widespread losses of these organisms, restricted their distribution, or significantly reduced their abundance. Amphibian life is a strong threat from pesticides; however, oversharing of the availability of these animals over an entire hectare of land is desirable. Consequently, these animals are under pressure to survive (Yu and Wages 2021; Bosaliti et al. 2022; Fonseca Peña et al. 2022; Medkova et al. 2023; Weir and Weltje 2024).

In agriculture and other fields, insecticides, herbicides, and fungicides are toxic to certain organisms (Jayaraj et al. 2016; Hashimi et al. 2020; Yang et al. 2020; Mdeni et al. 2022). However, being non-selective, they eliminate all forms of life they encounter with these chemicals. Given their highly permeable skin and aquatic habitats, pesticides are likely to affect amphibians (Brühl et al. 2013; Pochini and Hoverman 2017; Głinski et al. 2018; McClelland and Woodley 2022). Pesticides also have lethal effects, which can sufficiently change amphibian behavior and physiology to cause mortality. For example, interference of some

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Environmental Dynamics Of Pesticides

Roman Wölfel



Environmental Dynamics Of Pesticides:

Environmental Dynamics Of Pesticides Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Environmental Dynamics Of Pesticides**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Environmental Dynamics Of Pesticides

1. Understanding the eBook Environmental Dynamics Of Pesticides
 - The Rise of Digital Reading Environmental Dynamics Of Pesticides
 - Advantages of eBooks Over Traditional Books
2. Identifying Environmental Dynamics Of Pesticides
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Environmental Dynamics Of Pesticides
 - User-Friendly Interface
4. Exploring eBook Recommendations from Environmental Dynamics Of Pesticides
 - Personalized Recommendations
 - Environmental Dynamics Of Pesticides User Reviews and Ratings
 - Environmental Dynamics Of Pesticides and Bestseller Lists

5. Accessing Environmental Dynamics Of Pesticides Free and Paid eBooks
 - Environmental Dynamics Of Pesticides Public Domain eBooks
 - Environmental Dynamics Of Pesticides eBook Subscription Services
 - Environmental Dynamics Of Pesticides Budget-Friendly Options
6. Navigating Environmental Dynamics Of Pesticides eBook Formats
 - ePub, PDF, MOBI, and More
 - Environmental Dynamics Of Pesticides Compatibility with Devices
 - Environmental Dynamics Of Pesticides Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Environmental Dynamics Of Pesticides
 - Highlighting and Note-Taking Environmental Dynamics Of Pesticides
 - Interactive Elements Environmental Dynamics Of Pesticides
8. Staying Engaged with Environmental Dynamics Of Pesticides
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Environmental Dynamics Of Pesticides
9. Balancing eBooks and Physical Books Environmental Dynamics Of Pesticides
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Environmental Dynamics Of Pesticides
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Environmental Dynamics Of Pesticides
 - Setting Reading Goals Environmental Dynamics Of Pesticides
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Environmental Dynamics Of Pesticides
 - Fact-Checking eBook Content of Environmental Dynamics Of Pesticides
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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