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## Conclusions and Future Perspectives

[Controlling Environmental Pollution: Practical Solutions](#) • Book Chapter • 2025 • DOI: 10.1007/978-981-97-8931-3\_22

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### Abstract

The controlling of environmental pollution is a complex task that involves understanding the various forms of pollution and implementing effective strategies to mitigate their impact. Pollution occurs in many forms, such as air, water, soil, and noise. Basically, the stems from numerous sources, including industrial activities, vehicular emissions, agricultural practices, and householdwaste. Understanding these basics is crucial for developing comprehensive solutions to address and manage pollution effectively. Environmental pollution can refer to introducing harmful substances or energy into the environment, leading to adverse effects on ecosystems and human health. Air pollution, primarily caused by emissions from factories, vehicles, and burning fossil fuels, leads to respiratory problems and contributes to climate change. Water pollution, resulting from industrial discharge, agricultural runoff, and improper waste disposal, contaminates water bodies, affecting marine life and posing health risks to humans. Soil pollution, often due to excessive use of pesticides and industrial waste, degrades soil quality, impacting agriculture and food security (Ibrahim et al., Environmental Advances 12, 2023). Noise pollution, primarily from industrial activities and urbanization, affects human health by causing stress, hearing loss, and sleep disturbances. © The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. 2025.

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### **Abstract**

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