

Impacts of Anthropogenic Pollution on Aquatic Ecosystems

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Abstract

of aquatic ecosystems, emphasizing the effects on organisms, communities, and overall ecosystem health. Aquatic

Unfortunately, these ecosystems have become both a

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Conclusion

The article explores the growing concern surrounding emerging contaminants in aquatic ecosystems and their potential impacts on ecological health and human well-being. Rapid industrialization,

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urbanization, and agricultural intensification have led to the release of a wide array of novel chemicals into water bodies, many of which are not adequately regulated or understood. This article reviews the ecological implications of these emerging contaminants and examines their toxicological effects on aquatic organisms, from algae and plankton to fish and higher trophic levels. The research highlights the need for comprehensive monitoring and risk assessment strategies to safeguard the integrity of aquatic ecosystems and protect human health from these potentially hazardous substances.

Environmental contamination is a pressing global issue that poses significant threats to aquatic ecosystems and their inhabitants.

This comprehensive review aims to explore the intricate relationship between ecology and toxicology, shedding light on the multifaceted impacts of pollutants on aquatic environments. Various sources of contamination, including industrial effluents, agricultural runoff, and urbanization, introduce a wide array of toxic substances into water bodies, leading to detrimental consequences for aquatic life and the environment.

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