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## APPRAISAL OF MICROPLASTICS IN FOREST ECOSYSTEM - SOURCES, MIGRATION AND MITIGATION

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### Abstract

Forests are among the natural resources that have a global contribution. They hold the mainstream of terrestrial biodiversity and constitute roughly one-third of the surface of the globe. This expresses the significance of forests in protecting all aspects of human survival. Recent microplastic (MP) pollution in forest ecosystems has had a substantial harmful influence on the atmosphere and people worldwide. Due to the limited research and minimal responsiveness about the repercussions of microplastics (MPs) on the forest ecosystem as a whole, little knowledge has been shared yet. Here we reviewed the unfavorable impacts of MPs on the forest environment including soil biota, wildlife, and birds. The efforts to eliminate MP contamination in the forest ecosystem are outlined in this assessment. Several microplastic remediation techniques have been utilized in the degradation or elimination of MPs in water and soil. This study will be highly efficient for forest conservationists, environmentalists, and policymakers to comprehend the underlying mechanism of MP contaminants in forest ecosystems so that it could reduce the risks to human life, wild flora, and fauna.

*Key words:* environment, environmental contamination, forests, microplastic pollution, remediation techniques, soil ecosystem, wildlife

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