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A Review on Polycyclic Aromatic Hydrocarbons: Source, Environmental Impact, Effect on Human Health

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Abstract

Polycyclic aromatic hydrocarbons (PAHs) are very important cluster of organic pollutants. They are omnipresent environmental pollutants generated primarily throughout the unfinished combustion of organic materials (e.g. coal, oil, petrol, and wood). Emissions from anthropogenic activities are extremely to blame for their generation. The demand for processed fossil oil product and agricultural manufacture has exposed our surroundings to PAH contamination. Globally, the combustion of fossil fuels and wildfires are major sources of PAHs, whereas road traffic and specific industries of dominate urban emissions. The bulk of Earth's organic compound resource is merely partly degraded. Bioremediation processes by microorganisms as well as bacterium, fungi and alga and additionally phyto remediation are the promising strategies in improvement up PAHs from the setting. These clean-up strategies aren't solely environmental friendly however additionally gift a unique approach in reducing the PAHs ability of inflicting risk to humans and to the scheme. Finally, summarise this review, because the sources of PAHs, their fate of transport, Bio accumulation, toxicity and also the microorganism biodegradation aspects of each low molecular weight and high relative molecular mass PAHs.

Keywords:

Gases, Primary pollutants, Polycyclic aromatic hydrocarbons (PAHs), Secondary pollutants, Smog, Sources of PAHs.

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