

**M. A. KHALID, D. S. MALIK, R. A. BALIKAI,
BASEEM TAMINI, K. K. YADAV & P. R. YADAV Editors**

ENVIRONMENTAL PROBLEMS, PROTECTION AND POLICIES

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This book on "Environmental Problems, Protection and Policies" goes on to highlight the unfavourable conditions created by the human approach to nature. In other words, this book highlights what environmental pollution is! It can be understood how important the issue of environmental pollution is in the situation where even the air we breathe is threatened with pollution. The book contains 30 chapters encompassing different aspects of environmental problems, protection, and policy issues. This book summarizes the Green technologies for sustainable development, Soil pollution, Microplastic pollution in the aerial, soil and marine ecosystem, Plastic pollution, Water pollution, Ozone layer depletion, Biodiversity loss, Air pollution, Marine pollution, Deforestation, Acid rain, Environment degradation and disasters, Human impact on the environment, Pollution and its impact on animal and human health, and Light pollution as the driving force behind loss of biodiversity.



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Editors

M. A. KHALID, Integral University, Lucknow

D. S. MALIK, Gurukul Kangri University, Haridwar

R. A. BALIKAI, University of Agricultural Sciences, Dharwad

BASEEM MALIKALI TAMIMI, Jabir Ibn Hayyan Medical University, Iraq

K. K. YADAV, Madhyanchal Professional University, Bhopal

P. R. YADAV, 26 Manas Enclave, Phase II, Lucknow



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WILDLIFE AND PLASTIC DEBRIS: A DANGEROUS ENCOUNTER

Monowar Alam Khalid* and Azra Ikram

Department of Environmental Science, Integral University, Lucknow - 226 026, India.

*Corresponding author e-mail : makhalid@iul.ac.in

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ABSTRACT : Plastic pollution has a significant impact on wildlife around the world. The presence of plastic waste in ecosystems poses a serious threat to marine and terrestrial animals. Marine animals such as sea turtles, whales and seabirds often mistake plastic debris for food, leading to ingestion and entanglement. This can result in severe injuries, suffocation, and even death. Plastic pollution also disrupts habitats and food chains, affecting the overall health and balance of ecosystems. Management of plastic waste is inadequate in all most all developing countries because of low environmental standards, poor waste recovery and disposal systems, low economic status, lack of awareness of public, poor hygienic and living standards and no strict law enforcement. It's crucial that we take action to reduce plastic pollution and protect our precious wildlife.

Key words : Plastic pollution, impact, land wildlife, marine animals.

Plastics

Plastics are polymeric material that have the capability of being molded or shaped, usually by the application of heat and pressure. This property of plasticity, often found in combination with other special properties such as low density, low electrical conductivity, transparency and toughness, allows plastics to be made into a great variety of products (Guren and Claire, 2018). These include tough and lightweight beverage bottles made of polyethylene terephthalate (PET), flexible garden houses made of polyvinyl chloride (PVC), insulating food containers made of foamed polystyrene and shatterproof windows made of polymethyl methacrylate.

The Composition, Structure and Properties of Plastics

Many of the chemical names of the polymers employed as plastics have become familiar to consumers, although some are better known by their abbreviations or trade names, example polyvinyl chloride are commonly knowns PET and PVC, while foamed polystyrene and polymethylmethacrylate are known by their trademarked names, Styrofoam and Plexiglas or Perspex.

Industrial fabricators of plastic products tend to think of plastics as either "commodity" resins or "specialty" resins (the term resin dates from the early years of the plastics industry; it originally referred to naturally occurring amorphous solids such as shellac and resin). Commodity resins are plastics that are produced at high volume and low cost for the most common disposable items and durable goods like polyethylene, polypropylene,