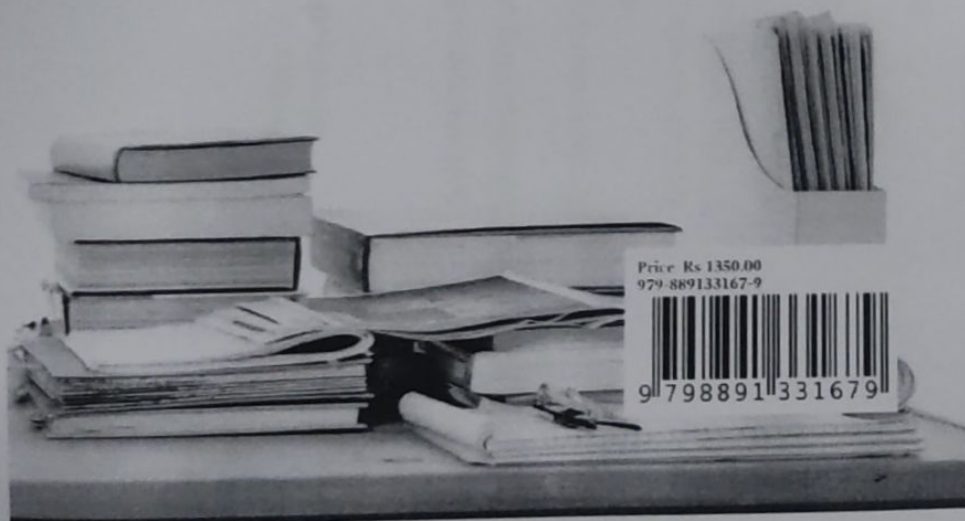


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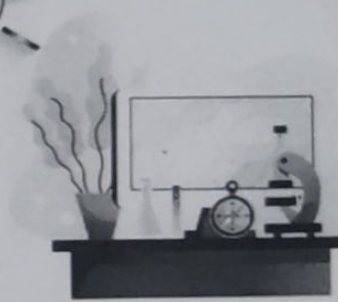


Bridging Boundaries: Exploring Interdisciplinary Research

Dr. R.K. Saran

Bridging Boundaries

Exploring Interdisciplinary Research



Editors
Dr. R.K. Saran
Meha Khirja
Surendar Thor!

[Peer Reviewed]

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5. Understanding the Impact of E-Waste Generation and Effective Mitigation Strategies

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Abstract:

The process of industrialization and the extraction of natural resources have led to significant environmental degradation and pollution on a wide scale. A significant quantity of hazardous material has been disseminated in numerous contaminated locations around our country. Consequently, there is an increasing concern regarding the escalating risk to both human and environmental health. The aforementioned contaminants can be categorized into two primary kinds, namely inorganic and organic. The proliferation of electronic garbage (e-waste) has experienced exponential growth in recent years, mostly due to the rapid expansion of markets involved in the production of these items. According to the United States Environmental Protection Agency (US-EPA), there is a projected annual growth of 5 to 10% in the global generation of electronic garbage (e-waste). Moreover, it is disconcerting to note that an only 5% of this quantity is being successfully reclaimed. The issue of electronic waste (e-waste) has garnered international attention due to the characteristics of waste creation and disposal within a globalized context. The primary objective lies in the formulation of inventive and economically viable methodologies for the purification of contaminated