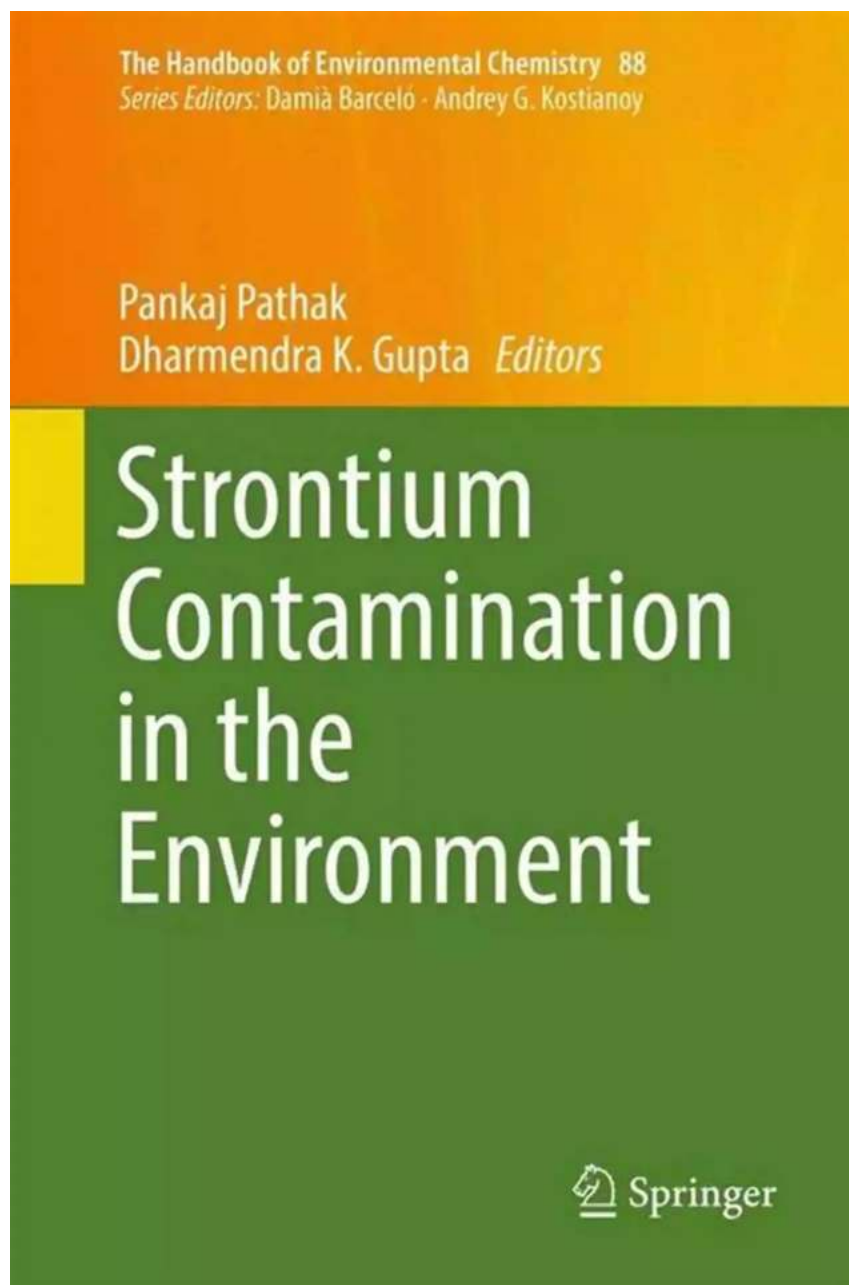


# Strontium Contamination In The Environment - The Handbook Of Environmental

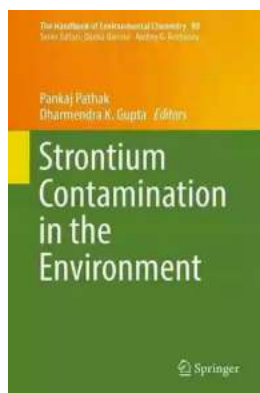


Strontium contamination in the environment is a growing concern for researchers and environmentalists alike. As a naturally occurring element, strontium can be found in various forms and is widely used in industrial applications. However,

improper disposal and accidental spills have led to its widespread presence in the environment, posing risks to human health and ecosystems.

## The Handbook Of Environmental

The Handbook of Environmental is a comprehensive resource that aims to provide a detailed understanding of strontium contamination and its impact on the environment. This book offers valuable insights into the sources of contamination, its movement through different environmental compartments, and the potential health and ecological effects associated with exposure.



### Strontium Contamination in the Environment (The Handbook of Environmental Chemistry 88)

by Emily Eaton(1st ed. 2020 Edition, Kindle Edition)

★★★★★ 5 out of 5

Language : English  
File size : 18257 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 266 pages



## Sources of Strontium Contamination

Strontium contamination can occur through a variety of sources, including industrial activities, mining operations, nuclear power plants, and agricultural practices. Industrial waste and effluents containing strontium often find their way into water bodies, leading to widespread contamination. Additionally, mining activities for ores containing strontium can result in the release of the element into the environment.

## **Environmental Fate and Transport**

Once released into the environment, strontium undergoes various transformations and can move through different environmental compartments. It can be present in air, water, soil, and plants, making it easily accessible to both humans and wildlife. The mobility and persistence of strontium in the environment depend on several factors such as soil properties, pH levels, and climate conditions.

## **Health Effects**

Exposure to high levels of strontium can have adverse effects on human health. Ingesting contaminated food and water can lead to strontium accumulation in bones, which may affect bone health and lead to bone disorders. Chronic exposure to strontium has also been associated with an increased risk of cardiovascular diseases and developmental abnormalities in children. Studies have also shown a potential link between strontium exposure and certain types of cancer.

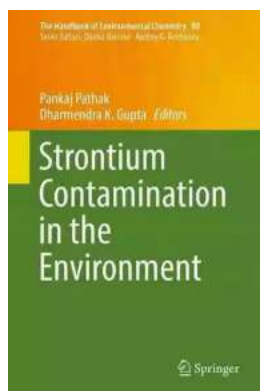
## **Ecological Implications**

Strontium contamination also poses significant ecological implications. It can accumulate in plants and animals, disrupting natural ecosystems and affecting their overall health and reproduction. Aquatic organisms are particularly vulnerable to strontium contamination, which can lead to reduced growth, impaired reproduction, and changes in behavior. Strontium accumulation in soils can also affect plant growth and nutrient uptake, potentially leading to a decline in agricultural productivity.

## **Management and Remediation**

Managing and remediating strontium-contaminated sites is crucial to protect human health and the environment. Strategies such as phytoremediation, in which specific plants are used to remove strontium from soil and water, have shown promise in reducing strontium levels. Additionally, regulations and policies surrounding the proper handling and disposal of strontium-containing waste need to be strengthened to prevent further contamination.

Strontium contamination in the environment is a pressing issue that requires attention from researchers, policymakers, and industries. The Handbook of Environmental serves as a valuable resource for understanding the various aspects of strontium contamination, its impact on human health and ecosystems, and the strategies employed for its management. By addressing this issue collectively, we can work towards minimizing the risks associated with strontium contamination and ensuring a healthier environment for future generations.



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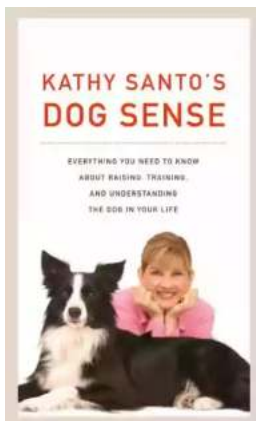
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This book provides an authoritative review of the origin and extraction of strontium and its impact on the environment. It also presents the latest strontium decontamination and remediation strategies. Around the globe, nuclear power is

being recognized as a major source of energy and is expected to play a crucial role in meeting the energy requirements of present day society. However, the pros and cons have to be considered, and the safe disposal of large amounts of radionuclide wastes is becoming a matter of great concern. These wastes encompass contaminants such as heavy metals and toxic substances, which may exist in solid, liquid or gaseous forms or a combination of these, and as such, their disposal requires particular attention.

The book focuses on  $^{90}\text{Sr}$ , which is a predominant isotope of strontium and considered an intermediate level radioactive waste with a half-life of 28.8 years, average biological half-life of 18 years and 546 KeV decay energy. Written by expert contributors, it addresses occurrence, detection and extraction of strontium, the chemical and nuclear properties of strontium isotopes, the fate and migration of strontium in soil, its bioaccumulation, and its associated health impact, mechanistic toxicity response as well as related regulation and remediation. It appeals to scholars, scientists and environmental managers working with strontium contamination in the environment and its consequences.



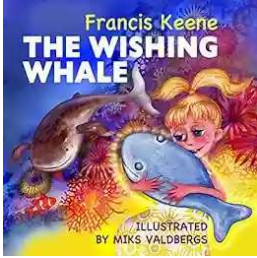
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