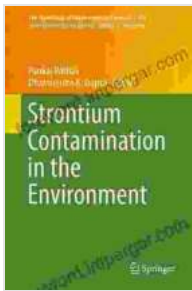


# Strontium Contamination in the Environment: The Handbook of Environmental Chemistry

Strontium is a naturally occurring element that is found in the Earth's crust. It is a metal that is similar to calcium, and it can be found in a variety of minerals, including strontianite, celestite, and barite. Strontium is also found in small amounts in seawater and in some foods, such as milk, cheese, and seafood.



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

★★★★★ 5 out of 5

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Strontium contamination can occur from a variety of sources, including:

- \* Mining and processing of strontium-containing ores
- \* Nuclear power plants
- \* Burning of fossil fuels
- \* Landfills
- \* Wastewater treatment plants

Strontium contamination can have a variety of adverse effects on the environment, including:

\* Damage to plants and animals \* Contamination of soil and water \*  
Disruption of ecological processes

## **Sources of Strontium Contamination**

The primary source of strontium contamination in the environment is the mining and processing of strontium-containing ores. Strontium is used in a variety of industrial applications, including the production of glass, ceramics, and paint. Strontium is also used in some medical applications, such as the treatment of osteoporosis.

Nuclear power plants are another source of strontium contamination. Strontium-90 is a radioactive isotope of strontium that is produced during nuclear fission. Strontium-90 can be released into the environment through the cooling water of nuclear power plants.

The burning of fossil fuels is also a source of strontium contamination. Fossil fuels contain small amounts of strontium, and when these fuels are burned, strontium is released into the atmosphere. Strontium can then be deposited on the ground or in water bodies through rain or snow.

Landfills are another source of strontium contamination. Landfills contain a variety of wastes, including household waste, industrial waste, and construction debris. Strontium can be found in some of these wastes, and when these wastes are disposed of in landfills, strontium can be leached into the environment.

Wastewater treatment plants are another source of strontium contamination. Wastewater contains a variety of pollutants, including strontium. When wastewater is treated at a wastewater treatment plant,

strontium can be removed from the wastewater. However, some strontium may still be discharged into the environment in the treated wastewater.

## **Effects of Strontium Contamination**

Strontium contamination can have a variety of adverse effects on the environment. Strontium can damage plants and animals, contaminate soil and water, and disrupt ecological processes.

Strontium can damage plants by interfering with their growth and development. Strontium can also damage the leaves and stems of plants, and it can cause plants to produce fewer flowers and fruits.

Strontium can damage animals by interfering with their metabolism and reproduction. Strontium can also damage the bones and teeth of animals, and it can cause animals to develop cancer.

Strontium can contaminate soil and water by leaching into these environments from sources such as landfills and wastewater treatment plants. Strontium contamination can make soil and water unsafe for plants and animals, and it can also disrupt ecological processes.

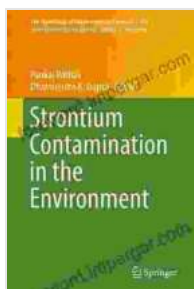
Strontium contamination can disrupt ecological processes by altering the balance of nutrients in the environment. Strontium can also interfere with the ability of organisms to reproduce and survive.

Strontium contamination is a serious environmental problem that can have a variety of adverse effects on plants, animals, and the environment. It is important to understand the sources of strontium contamination and the

effects of this contamination in Free Download to develop effective strategies to reduce strontium contamination and protect the environment.

## References

\* Strontium Contamination in the Environment: A



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