

Special Issue

Application of Radiation Technology in Environmental Protection

Message from the Guest Editor

Radiation technologies, including electron beam, gamma, and X-ray radiation, have gained widespread attention due to their ability to solve complex environmental problems. These technologies are increasingly used in water and air purification, soil decontamination, waste management, and energy-efficient industrial processes. With the escalating demand for cleaner and greener solutions, radiation technologies could transform environmental management practices and align them with the Sustainable Development Goals. This Special Issue will highlight the growing significance of radiation-based technologies in addressing global environmental challenges. We invite original research articles, reviews, and case studies that cover, but are not limited to, the following topics:

- Water and Wastewater Treatment: Radiation-driven removal of contaminants, emerging pollutants, microplastics, and pathogens.
- Air Pollution Control: Advanced oxidation processes for the removal of volatile organic compounds (VOCs) and other airborne pollutants.
- Solid Waste and Plastic Management: Recycling, degradation, and valorization of plastic and other solid wastes using radiation technology.

Guest Editor

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Deadline for manuscript submissions

20 August 2025



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/228564

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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