

Radionuclide Contamination And Remediation Through

Radionuclide Contamination and Remediation Through Plants - Kindle edition by Dharmendra Kumar Gupta, Clemens Walther. Download it once and read it on your Kindle device, PC, phones or tablets. Use features like bookmarks, note taking and highlighting while reading Radionuclide Contamination and Remediation Through Plants.

Radionuclide Contamination and Remediation Through Plants ...

This book focuses on the mechanistic (microscopic) understanding of radionuclide uptake by plants in contaminated soils and potential use of phytoremediation. The key features concern radionuclide toxicity in plants, how the radioactive materials are absorbed by plants, and how the plants cope with the toxic responses.

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Radionuclide Uptake by Plants: Soil to Plant Transfer Factors, Kinetics of Absorption and Internal Radionuclide Distribution of ¹³⁷Cs And ⁴⁰K in South American Species; Impact on Plant Growth in Waste Contaminated Areas; Remediation of Radionuclide Contaminated Sites Using Plant Litter Decomposition

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The objective of this newly proposed CRP D1.50.19 on "Monitoring and predicting radionuclide uptake and dynamics for optimizing remediation of radioactive contamination in agriculture" is to enhance readiness and capabilities of societies for optimizing the remediation of agricultural areas affected by large-scale nuclear accidents through innovative monitoring and prediction techniques.

Remediation of Radioactive Contaminated Agricultural Land ...

Environmental remediation aims to reduce radiation exposure from contaminated soil, waste storage facilities or other contaminated infrastructure, groundwater or surface water. Its purpose is to return affected lands and water resources for safe public use. Nuclear regulators and operators of ...

Radiological environmental remediation | IAEA

This electronic calculator provides information on establishing PRGs for radionuclides at CERCLA sites with radioactive contamination. The Radionuclide Preliminary Remediation Goals for Superfund electronic calculator presents standardized exposure parameters and equations that should

generally be used for calculating radionuclide PRGs for ...

Radiation at Superfund Sites | US EPA

Bioremediation of radioactive waste or bioremediation of radionuclides is an application of bioremediation based on the use of biological agents bacteria, plants and fungi (natural or genetically modified) to catalyze chemical reactions that allow the decontamination of sites affected by radionuclides.

Bioremediation of radioactive waste - Wikipedia

Permeable Reactive Barriers for Inorganic and Radionuclide Contamination ... Achieving a full remediation of an area through the use of pump-and-treat technologies is infrequent, resulting in the potential for additional costly cleanup options. ... Permeable Reactive Barriers for Inorganic and Radionuclide Contamination .

Permeable Reactive Barriers for Inorganic and Radionuclide ...

Since the middle of the last century, the radioactive contamination have appeared through the discharge of man-made radionuclides, making the ionizing radiation one of the important ecological factors, in line with other types of soil degradation (physical, chemical, and biological) . Even though the radioactive contamination of the environment ...

Radioactive Contamination of the Soil: Assessments of ...

Soils contaminated with radionuclides, particularly ^{137}Cs and ^{90}Sr , pose a long-term radiation hazard to human health through exposure via the foodchain and other pathways. Remediation of radionuclide-contaminated soils has become increasingly important. Removal of the contaminated surface soil (often up to 40 cm) or immobilization of radionuclides in soils by applying mineral and chemical ...

Soil contamination with radionuclides and potential ...

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