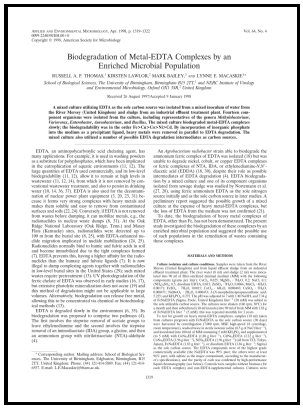
Biodegradation of complexing agents used in the nuclear fuel cycle

University of Birmingham - BIOREMEDIATION OF URANIUM CONTAMINATED SOILS AND WASTES. (Conference)



Biodegradation of Metal-EDTA Complexes by an Enriched Microbial Population

Description: -
-biodegradation of complexing agents used in the nuclear fuel cycle
-biodegradation of complexing agents used in the nuclear fuel cycle
Notes: Thesis (Ph.D) - University of Birmingham, School of Biological Sciences, Faculty of Science.
This edition was published in 1997

Tags: #US4059671A

Citrate biodegradation. Mid

Metals forming mononuclear bidentate complexes are readily biodegraded while those which form complexes involving the hydroxyl group of the citrate are not biodegraded.

Closing the Nuclear Fuel Cycle with a Simplified Minor Actinide Lanthanide Separation Process (ALSEP) and Additive Manufacturing

Typical decomposition products which are formed and which give rise to such complexes are dibutyl phosphate DBP and monobutyl phosphate MBP. No uranium release occurred during selective desorption of Ni, proving the integrity of the biofilm within the column.

Chemistry of radioactive materials in the nuclear fuel cycle

Solutions used in liquid-liquid extraction processes must therefore be resistant towards radiolysis. This sequential supercritical fluid extraction technique appears promising for large-scale treatment of mixed wastes. The important features of historically successful solvent extraction separations and alternative chemical processes are described.

The environmental biogeochemistry of chelating agents and recommendations for the disposal of chelated radioactive wastes

On-line separation of uranium and lanthanides dissolved in the sc-CO2 phase can be achieved by a countercurrent stripping technique.

Related Books

- Gewerkschaften im Klassenkampf - die Entwicklung d. Gewerkschaftsbewegung in Westeuropa.
- Somali women in metropolitan Toronto - overcoming the barriers.
- Negentiende-eeuwse restauratiepraktijk en actuele monumentenzorg - handelingen van het Nederlands-Vl
- The 2006-2011 World Outlook for Piccalilli Relish
- Ethos ; introduction à lanthropologie sociale