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Volume 893 (Symposium JJ " Actinides 2005 " Basic Science, Applications and Technology) 2005 , 0893-JJ08-06 Complexation of Actinides with Amide Derivatives of Oxydiacetic Acid

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Volume 893 (Symposium JJ " Actinides 2005 " Basic Science, Applications and Technology) 2005, 0893-JJ05-18; Studying Actinide Correlations in Solution using High-Energy X-ray Scattering. ... Full text views reflects the number of PDF downloads, PDFs sent to Google Drive, Dropbox and Kindle and HTML full text views. Total number of HTML ...

Studying Actinide Correlations in Solution using High

The study of brannerite and other actinides at extreme conditions is not only important to basic science but also to the application of these materials in nuclear engineering. Natural brannerite mineral is nearly always x-ray amorphous because of self-radiation damage from α -decay of U, Th and their daughter isotopes.

Phase stability of some actinides with brannerite

The basic science goal in this project is to identify structure/affinity relationships for selected radionuclides and existing sorbents. The research will then apply this knowledge to the design and synthesis of sorbents that will exhibit increased cesium, strontium and actinide removal.

Strategic Design and Optimization of Inorganic Sorbents

Abstract. Over the past few decades, many studies of actinides in glasses and ceramics have been conducted that have contributed substantially to the increased understanding of actinide incorporation in solids and radiation effects due to actinide decay.

Actinide Waste Forms and Radiation Effects | SpringerLink

The actinides are most known for the elements uranium and plutonium which are used in nuclear reactors and nuclear bombs. Interesting Facts about Lanthanides and Actinides The lanthanides and actinides are located mostly in the "f-block" of the periodic table.

Chemistry for Kids: Elements - Lanthanides and Actinides

Adam J. Schwartz The Ames Laboratory 311 TASF Ames, IA 50011-3020 ajschwartz@ameslab.gov
www.ameslab.gov Research Interests Accelerating advanced material development and deployment ...
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Adam J. Schwartz - Ames Laboratory

Chapter 2 Basic Science Concepts 23 " Solids have a definite shape with their particles closely packed together and sticking firmly to one another. A solid doesn't change its shape to fit a container.

Basic Science Concepts Chapter 2 - Alaska DEC

New basis sets of the atomic natural orbital (ANO) type have been developed for the actinide atoms Ac-Cm. The ANOs have been obtained from the average density matrix of the ground and lowest excited states of the atom, the positive ions, and the atom in a electric field.

New relativistic ANO basis sets for actinide atoms

Abstract. A descriptive account is given of our most recent research on the actinide dioxides with the Advanced Light Source Molecular Environmental Science (ALS-MES) Beamline 11.0.2 soft X-ray scanning transmission X-ray microscope (STXM) at the Lawrence Berkeley National Laboratory (LBNL).

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