

Advanced Adsorbents and Methods for Extraction of Metals from Aqueous Sources

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Technology Summary

ORNL has developed advanced adsorbent materials that have demonstrated at least 30% increase in the uranium adsorption capacity after seawater exposure. These solid phase adsorbents can also be used to remove uranium and other metals from a wide variety of aqueous sources and can be made into a variety of product forms including fibers, fabrics, nonwovens, powders, beads, foams, etc. The increased metal adsorption capacities of these new adsorbents can result in cost savings for several commercial applications including metal extraction, water purification, and water remediation.

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