

ACS Fall 2026 | August 23-27 | Chicago, IL
Call for Abstracts

Characterization and recovery of critical minerals and materials from solid and aqueous waste streams

Sponsored by ACS Geochemistry and Environmental Chemistry Divisions

The growing global demand for critical minerals and materials (CMMs) has highlighted the need for sustainable and innovative strategies to recover these resources while minimizing environmental impacts. Solid and aqueous waste streams, often considered liabilities, are increasingly recognized as potential sources of valuable critical materials. However, these waste streams are frequently associated with environmental challenges, including land degradation, water pollution, and ecosystem harm.

This symposium will explore cutting-edge research and development in the characterization and recovery of CMMs from waste streams, such as mine tailings, mine wastewater, industrial process residues, produced waters, municipal waste solid and water, and municipal solid waste incineration ash. By converting these waste streams into valuable resources, the dual benefits of mitigating negative environmental impacts and addressing CMM supply chain challenges can be realized.

Submission deadline: March 30, 2026

<https://callforabstracts.acs.org/acsfall2026>

Symposium Organizers: Guangping Xu (Sandia National Laboratories), Mengling Stuckman (NETL), Yuanzhi Tang (Georgia Tech University)