

## Call for Abstracts for Fall 2024 National Meeting

Denver, CO, August 18–22, 2024

Abstract Submission Deadline: Monday, April 1, 2024

<https://callforabstracts.acs.org/acsfall2024>

### Geochemistry and Environmental Chemistry at the Water–Energy Nexus

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Cosponsor: I&EC, ENVR, ENFL, COMSCI, CEI

The strong interdependence of water and energy controls the sustainability of our environment. Geochemistry powerfully illuminates this intricate relationship, providing critical insights into the impacts of energy extraction, storage, and consumption on aquatic ecosystems. Such detailed knowledge also enables designing and maintaining energy-efficient and high-performance water treatment and distribution systems. This session will highlight joint studies of physical, (bio)chemical, and environmental processes in the application and management of the water-energy nexus, including but not limited to

- Aqueous and interfacial chemistry for energy extraction, production, and storage
- Brine management chemistry for energy and water production
- Chemistry that enables sustainable water treatment, distribution, and disposal
- Advanced characterizations and designs of interfacial structures of energy and water systems
- Recovery of nutrients, critical elements, and resources via adsorption, incorporation, and mineralization
- Chemistry for carbon management
- Chemistry that promotes treatments and upcycling of byproducts from water and energy systems

Presentations of new results from laboratory-scale experiments, theoretical and computational study, and development and application of advanced techniques are encouraged.