



**Science  
Societies**

# **Call for papers: Promoting the reclamation and integrated utilization of salt-affected soils**

**Submit your research to Vadose Zone Journal by  
October 31**

May 15, 2025



*This photo showing salt-affected soils is courtesy of Sharon Clay and was originally published in the October 2021 CSA News.*

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Saline-alkali soils represent a major global challenge, threatening agricultural productivity, water sustainability, and ecosystem health. Addressing this pressing issue requires a deeper understanding of soil salinization processes and innovative solutions to improve soil structure, crop tolerance, and ecological resilience.

*Vadose Zone Journal* is accepting papers for the special section, "Promoting the Reclamation and Integrated Utilization of Salt-Affected Soils." The journal is inviting cutting-edge research focusing on mechanisms governing root-soil-water interactions, novel approaches to soil modification, bioengineering of salt-tolerant crops, and advanced management strategies utilizing remote sensing, digital soil mapping, and artificial intelligence. The journal particularly encourages studies exploring integrated agro-eco-hydrological frameworks, eco-friendly soil conditioners, and salt-resistant biophysical solutions. Forward-looking reviews examining future opportunities and challenges in reclaiming saline-alkali soils and enhancing agricultural sustainability are highly welcomed. The goal is to facilitate a comprehensive scientific exchange, advancing practical solutions for sustainable soil management and global food security.

## **Topics**

Topics for this call for papers include but are not restricted to:

- Coupled migration and formulation of soil water, fertilizer, and salt dynamics
- Mechanisms and modeling of saline soil-root-water interactions
- Unconventional water application for soil salinity management
- Nutrient conversion, transport and crop uptake in saline soil

- Innovative materials and techniques for restoring salt-affected soils
- Evaluation of development potential for saline-alkali land
- Soil quality and carbon sequestration
- Novel methods for monitoring soil and plant system

## Submission guidelines/instructions

Please refer to the [author guidelines](#) to prepare your manuscript. When submitting your manuscript, please answer the question: "Is this submission for a special issue?" by selecting the special issue title from the drop-down list.

**Submit now**

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