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

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This photo showing salt-affected soils is courtesy of Sharon Clay and was originally published in

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

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
