

Special Issue

Future Prospects in Climate-Smart Soil Management

Message from the Guest Editors

Soil plays a central role in food security, ecosystem resilience and climate regulation. In the face of accelerating climate change, land degradation, soil acidification, and increasing production demands, the need for climate-smart soil management has never been more urgent. Climate-smart approaches aim to enhance soil health, improve productivity, strengthen resilience to climate variability, and contribute to climate change mitigation through sustainable and adaptive management strategies. Recent advances in digital soil mapping, Earth observation technologies and data-driven modeling are transforming our capacity to monitor and manage soil systems across spatial and temporal scales. Despite these advances, significant scientific and practical challenges remain.

Interdisciplinary collaboration across soil science, remote sensing, climate science, and policy is essential to advance climate-smart soil systems. This Special Issue seeks high-quality contributions exploring innovative concepts, methodological advancements, and applied case studies in climate-smart soil management.

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Land is the only open access journal covering all aspects of land science, and it is a pioneering platform for publishing on land system science. Our editorial board is comprised of eminent scholars. We publish high quality research on societally relevant, emerging and innovative topics and results in land system research. It is now one of the top land journals with a significant Impact Factor, and has a goal to become the best journal in land in the coming years.

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