

Special Issue

Geological Storage and Engineering Application of Gases

Message from the Guest Editors

This Special Issue aims to showcase the latest scientific and engineering advancements in geological storage mechanisms, reservoir characterization, wellbore–reservoir coupling, multiphysics modeling, and field-scale applications across different gas storage technologies. We welcome contributions addressing the challenges and opportunities in gas injection, migration, containment, monitoring, and long-term storage safety, as well as innovative strategies to improve storage efficiency and economic feasibility.

Original research articles, reviews, and case studies that explore cross-cutting themes, such as geomechanics, chemical reactions, and digital technologies in gas storage systems, are particularly encouraged.

We invite researchers from academia, industry, and government to contribute their latest findings to advance this interdisciplinary and impactful field.

Guest Editors

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Message from the Editor-in-Chief

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