

Special Issue

Methane and Other Greenhouse Gas Emissions: Monitoring, Adaptation, and Mitigation Strategies

Message from the Guest Editors

Methane is a potent greenhouse gas with a relatively short atmospheric lifetime compared to other greenhouse gases (GHG). This characteristic makes it a strong candidate for mitigation strategies aimed at achieving short-term impacts on climate change. Making the monitoring of GHG emissions crucial for developing comprehensive mitigation and adaptation strategies. This Special Issue aims to gather innovative academic contributions that advance this integrated approach, covering various emission sources, including agriculture, livestock production, urban areas, and the energy sector, among others. Additionally, this Special Issue emphasises a systemic perspective by incorporating carbon footprint assessments, carbon sequestration potential, and life cycle analyses that account for emissions of methane (CH₄), nitrous oxide (N₂O), and carbon dioxide (CO₂). By building upon and expanding the existing literature, this Special Issue will provide novel insights into monitoring methodologies, technological advancements, and policy frameworks that support sustainable and science-based decision-making in climate change mitigation and adaptation.

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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