DESCRIPTION

The International Journal of Greenhouse Gas Control is a peer reviewed journal focusing primarily on Carbon Capture, Transport, Utilization & Storage. If your paper is not related to this area, it is not in scope for the Journal. The Journal invites research covering applied science and engineering advances in control of greenhouse gas emissions and reductions of their atmospheric concentrations through carbon dioxide capture, transport and storage. The Journal publishes results of experimental and pilot studies, technology demonstrations, process design and optimization, and techno-economic, policy, and life-cycle analyses relevant to applications in the power sector, major resource, manufacturing and production industries, and negative emissions technologies. Original research, review and comment papers are included.

The scope of the journal (whilst not exclusive to) includes:

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New research results relevant for large scale CO₂ capture systems using chemical solvents, solid sorbents, chemical looping, calcium looping, membranes and membrane reactors and hybrid systems, PSA, cryogenics etc.

Advances in CO₂ capture processes (post combustion, pre combustion, oxy combustion) for power plants, cement and steel plants, refineries, petrochemicals, and other large industriesExperimental results at pilot level from laboratory scale to demonstration, and relevant modelling work for scaling upCO₂ capture process simulation for energy penalty reductions. Dynamic modelling.Cost analyses and cost reduction strategiesEnvironmental impacts/risk, safety and life-cycle assessment of capture facilities

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Geological formation/storage capacity assessments
Matching emissions sources and storage opportunities
Site selection and characterization
Modelling the fate and effects of stored CO₂
Integrity of the storage site, including caprocks and wells
Test injection research results
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Induced seismicity, pressure maintenance, brine displacement, groundwater impacts
Remediation and verification issues
Experiences from natural/industrial analogues

**Alternative storage options**

Ex situ mineral carbonation (research results, safety/risk assessments, environmental/energy/legal issues, public acceptance, regulation and costs)
Advanced weathering
Ocean storage

Alternative mitigation options/negative emission options

BioCCS and other bioenergy mitigation options
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Comparison of different GHG mitigation options such as energy efficiency, renewables and nuclear power and their potential to reduce CO₂ emissions

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Public awareness/acceptance issues
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Integrated Assessments, economic instruments that would induce commercial CCS deployment

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Analyses of policy options (national and international) to reduce GHG emissions and how these impact the commercial deployment of CCS systems

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INTRODUCTION
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