INTernational Journal of Greenhouse Gas Control

Description

The International Journal of Greenhouse Gas Control is a peer reviewed journal focusing on 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

CO₂ Transport

Design and material/technical issues for CO₂ transport systemsEconomic analyses and systems level optimization of CO₂ transport systemsRisk assessments and safety issuesPermitting and regulatory issues

CO₂ Geological Storage

Geological formation/storage capacity assessmentsMatching emissions sources and storage opportunitiesSite selection and characterizationModelling the fate and effects of stored CO₂Integrity of the storage site, including caprocks and wellsTest injection research resultsRisk
assessments and management tool developments and applications Environmental impact assessments Demonstration project results and operational experiences Induced seismicity, pressure maintenance, brine displacement, groundwater impacts Remediation and measurement, monitoring 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 Negative emission accounting principles Comparison of different GHG mitigation options such as energy efficiency, renewables and nuclear power and their potential to reduce CO₂ emissions

**System Integration and Infrastructure development**

Flexibility of operation of plants and on energy systems, integration issues, infrastructure development issues, financing and policies

**Implementation issues**

Legal and regulatory developments/issues Human/engineering capacity constraints Public awareness/acceptance issues Industry case studies on GHG mitigation technology implementation, learning by doing, knowledge transfer, stakeholder engagement and financing options

Integrated Assessments, economic instruments that would induce commercial CCS deployment

Energy and economic modelling of the role that CCS will play in the broader portfolio of emissions mitigation options under different scenarios 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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