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Carbon Capture, Energy Consumption and Storage Technologies in Energy Systems for Green Energy Transition

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Message from the Guest Editors

The increase in energy-related carbon emissions has led to an alarming situation, in which the world must reduce its carbon emissions. This has contributed to the urgency of developing options for mitigation through advanced modelling tools, methodologies, and applications and technologies for carbon capture and storage in energy systems.

This Special Issue aims to present and disseminate the most recent advances related to the theory, design, modelling, application, technology development, and implementation of all types of carbon capture and storage in energy systems.

Topics of interest for publication include, but are not limited to, the following:

- All aspects of induction carbon capture, such as conceptual approaches, methodologies and modelling tools, utilisation, and technology development in energy systems;
- Energy consumption and transitions;
- Carbon capture and storage technologies in energy systems;
- Novel applications of carbon capture, energy utilisation, and technology for green energy transitions;
- The development of multiphase carbon capture and storage and reductions in the energy consumption associated with these processes in energy systems;

Special Issue

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Message from the Editor-in-Chief

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