Special Issue

Enhanced Methane Extraction and Emission Reduction Technologies for the Full Cycle of Coal Production

Message from the Guest Editors

Methane is the most important non-carbon dioxide greenhouse gas, and has received more and more attention in recent years. Currently, anthropogenic methane emissions mainly come from energy activities, industrial/agricultural production, land (wetlands), and waste disposal. Coal methane emissions are the main type, accounting for 12% of the total global anthropogenic methane emissions. Enhanced coal methane extraction, emission reduction, and the efficient utilisation of coal methane lead to greenhouse gas emission reduction, energy gas development and utilisation, and gas disaster prevention, which are of great significance for the sustainable development of society. In the whole cycle of coal development, the efficient exploration and development of coalbed methane, the efficient extraction of coal mine gas, the extraction of gas from closed/abandoned mines, and the efficient utilisation of methane are the main ways to reduce coal methane emissions, and have consequently become hot spots of concern. This Special Issue aims at attracting more attention to, and promoting the discussion of, enhanced methane extraction and emission reduction in the whole cycle of coal production.

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