Special Issue

Monitoring, Process Control and Prevention Measures for Safety Problems in Coal Mining

Message from the Guest Editors

With the gradual depletion of coal resources and the increasing exploitation intensity of these resources in mining areas, coal mining has entered a phase of deep mining. In deep environments, the coal and rock mass in the "three high and one low" stress environment will have a more intense mechanical response, accompanied by more serious engineering disasters, such as coal and gas outbursts, rock bursts, gas dust explosions, roadway deformation, and other disaster problems. Therefore, it is of great significance to study the monitoring, process control, and preventive measures of coal mining safety problems for the safe and efficient mining of coal resources. This Special Issue solicits original research articles and review papers reflecting the advances in research concerning process safety in coal mining. Topics of interest include, but are not limited to, the following:

- Mechanisms and prevention of dynamic disasters;
- Prevention of coal mine gas and fire coupling disasters;
- Gas extraction technology of low-permeability coal seams;
- Coal mine gas explosions;
- Coal bed gas adsorption, desorption, and diffusion;
- Roadway surrounding rock control.

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