Special Issue

Mine Fires and Explosions

Message from the Guest Editors

Fire and explosion are the main types of disaster that occur in mines, including coal spontaneous combustion, external fire and gas explosion. Great progress has been made in coal spontaneous combustion prediction, fire-area detection, fire-control technology and materials and standardization system construction. The major coal-producing countries, such as China, the USA and Australia, attached great importance to the research, development, and application of disaster emergency rescue technology and equipment in mines, and have made considerable progress in emergency communication, personnel positioning, remote detection in disaster areas, construction of escape routes, accident emergency and auxiliary decision-making, airflow regulation, and escape guidance after a disaster. It aims to cover recent developments in occurrence mechanisms, new techniques and equipment, safety management and risk assessment, emergency rescue theories and technologies for the control of mine fires and explosions. The submitted papers should clearly show novel contributions and innovative applications of how science can support any of the following fire-related topics.

Guest Editors

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