



fire



an Open Access Journal by MDPI

Mechanism of Coal Spontaneous Combustion in Goaf and Mine Fire Prevention

Guest Editors:

Prof. Dr. Yueping Qin

Dr. Hao Xu

Dr. Yipeng Song

Dr. Wenjie Guo

Dr. Jia Liu

Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editors

Dear colleagues,

Coal fires are a major disaster that threatens the safety of mine production, with the vast majority of fires caused by coal spontaneous combustion, which often occurs in enclosed spaces such as gobs, coal pillars and structural belts.

This Special Issue aims to gather recent studies on the disaster mechanism and fire extinguishing technology of coal fires. It aims to combine experiments and on-site observations with numerical simulations to reveal the dynamic evolution process of underground fires. Research areas may include (but are not limited to) the following:

1. Low-temperature oxidation characteristics of coal;
2. Disaster mechanism of mine fires/spontaneous combustion;
3. Theoretical modeling method and numerical simulation;
4. Fire source location detection (gob, coal pillar, roadway, etc.);
5. Development of fire extinguishing materials and equipments;
6. Early warning and control technology for underground coal fires.

We look forward to receiving your contributions.



mdpi.com/si/181610

Special Issue