Special Issue

Mechanism of Coal Spontaneous Combustion in Goaf and Mine Fire Prevention

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 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:

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

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Fire is an international open-access journal about the science, policy, and technology of fires and how they interact with communities and the environment. *Fire* seeks to provide a forum to help the fire science community convey how we can live with fire in a changing world. *Fire* seeks submissions from interdisciplinary studies that take a pyrogeography perspective of fires occurring in natural, cultural, and industrial landscapes and how they interact with communities in the science-policy interface. *Fire*'s Editorial Board are widely recognized international leaders. The journal emphasizes quality and innovation and has a rigorous peer-review process. I strongly recommend *Fire* for the rapid publication of your innovative research publications and case studies.

Editor-in-Chief

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