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Stability Evaluation of Underground Water Reservoir in Deep Coal Mine

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Message from the Guest Editors

As China's primary energy source, coal will not lose its lead position for a long time. However, large-scale underground coal mining causes the outward drainage of a large amount of mine water and the leakage of shallow water. The discharged mine water is not only a waste of resources, but also brings about ground pollution. To address this issue, the novel approach of underground water reservoirs was proposed for water storage. The stability evaluation of underground water reservoirs in deep coal mines has recently been a research hotspot. The aim of this Special Issue is to highlight advances and breakthroughs in the stability problems of underground water reservoirs in deep coal mines.

Potential topics include but are not limited to the following:

- Stability assessment of underground water reservoirs;
- Stability of coal and dam;
- Mechanical behavior of coal;
- Fluid–solid coupling;
- Failure characteristics of coal and dam;
- Constitutive properties of coal and dam;
- Prevention and control methods of instability problems;
- Fluid flow in coal.

Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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