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The Advances of Rock Dynamics

Guest Editor:

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Deadline for manuscript submissions:

closed (31 March 2023)

Message from the Guest Editor

This Special Issue is devoted to the research of rockburst-related technology. Rock dynamics are related to statics. The object studied by the latter is the force field response of rocks to the surrounding physical environment under static equilibrium conditions, ignoring the inertial effect of medium units. Rock dynamics research studies the effect of the impact load on rock. Although there have been no major breakthroughs in the study of rockburst mechanisms, continuous progress is being made in rockburst prediction and early warning systems. **Potential topics include, but are not limited to:**

- 1. Dynamic mechanical properties and
- 2. The propagation and attenuation law of stress wave in rock mass:
- 3. Dynamic failure mechanisms and the numerical simulation of rock:
- 4. Safety and protection in rock engineering;
- 5. Dynamic stability analysis of rock caves, foundations, and slopes;
- 6. Rock blasting technology;

constitutive relation of rock:

- 7. Study of the mechanism of rockbursts;
- 8. Dynamic disaster monitoring of rock engineering;
- 9. New techniques and methods for testing rock dynamic parameters;
- 10. Other studies related to rock dynamics.











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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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