

## Special Issue

# Advance Rock Mechanics Theories and Techniques in Tunnelling for Energy Development

### Message from the Guest Editors

Over the last few decades, deeper and longer tunnels have been constructed to meet the needs of energy storage and coal mining. Many challenges have arisen with respect to tunnelling for energy development. Advanced rock mechanics theories and support theories and techniques (including grout material, shotcrete, steel arch, anchor bolt, and the corresponding simulation theory and method) are essential to ensure the safety of tunnels, and numerous studies have been conducted on this issue. Therefore, considering the above considerations, we invite investigators to contribute to this Special Issue on “Advance Rock Mechanics Theories and Techniques in Tunnelling for Energy Development” with original research papers. Potential topics include, but are not limited to, the following: 1. Rock mechanics theory for energy development; 2. Mechanical properties of rock mass during mining; 3. Monitoring techniques for mining; 4. Novelty cement-based grouting materials; 5. Supporting techniques for tunnels; 6. Numerical modelling of rock and structure failure; 7. Case study and other related aspects.

### Guest Editors

Dr. Xuwei Liu  
Dr. Yalong Jiang  
Dr. He Liu

### Deadline for manuscript submissions

closed (30 June 2024)



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### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

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