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Failure and Multiphysical Fields in Geo-Energy

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Message from the Guest Editor

Dear Colleagues,

Failures (e.g., instability, damage, and fracture) and multiphysical fields coupling (thermal, hydro, mechanical, and chemical fields) problems exist in the in situ occurrence and exploitation process of geo-energy, and they have become the key factors affecting the disasters in the exploitation process. Without understanding of the involved mechanisms, it is challenging to exploit energy safely and efficiently. The goal of this Special Issue is to review the novel theories and methods concerning failure and multiphysical fields in geo-energy problems including new applications in related fields. The aim is to define the state-of-the-art of the subject and the recently proposed methods, as well as future directions of research in this area. Another goal—which we hope will be beneficial for the community of failure and multiphysical fields—is to connect participants so that international collaborations can take place for advanced research and study of relevant applications.

Dr. Yongliang Wang
Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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