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Hydraulic Fracturing in Oil and Gas Reservoirs

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Message from the Guest Editors

Dear Colleagues,

Hydraulic fracturing is a method to enhance oil and natural gas extraction from underground geological formations. It involves injection of an engineered fluid under high pressure in order to crack the rock containing the hydrocarbon. The method is not new, but its use has been wide since being combined with horizontal drilling technology. Hydraulic fracturing is now widely practiced in the US and in China for both natural gas and oil production, and even in deep geothermal reservoir development. The technology has evolved in various ways, such as use of CO2 as a fracturing fluid, microwave fracturing, cyclic fatigue fracturing, as well as development of various numerical modeling techniques to simulate thermohydromechanical coupled processes in hydraulic fracturing. In this Special Issue on “Hydraulic Fracturing in Oil and Gas Reservoirs”, we would like to encourage you to share and discuss your recent findings related to hydraulic fracturing technology, which include but are not limited to numerical modelings, laboratory experiments, and field observations.

Dr. Jeoung Seok Yoon

Prof. Kwang Yeom Kim

Guest Editor

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Message from the Editor-in-Chief

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