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Multiphase Flow, and Efficient Development Methodology and Technology in Unconventional Reservoirs

Guest Editors:

Dr. Chao Zhang

School of Petroleum Engineering, China University of Petroleum (East China), Qingdao 266580, China

Dr. Fansheng Huang

Jiangsu Key Laboratory of Coalbased Greenhouse Gas Control and Utilization, China University of Mining and Technology, Xuzhou 221008, China

Dr. Tengfei Wang

College of Chemistry & Environmental Engineering, Yangtze University, Jingzhou 434000, China

Deadline for manuscript submissions:

closed (10 March 2024)

Message from the Guest Editors

This Special Issue focuses on the sustainable development of unconventional oil and gas resources, recent advances, and the challenges they are facing for sustainability. We aim to gather researchers in the aforementioned fields to highlight the current development of new techniques; exchange the latest knowledge of the underlying mechanisms; present advanced algorithms for modeling and innovative experimental methods; and facilitate collaboration between researchers in different fields. We welcome the submission of both original research and review articles.

Potential topics include, but are not limited to, the following:

- Multi-scale simulations of fluid flow in fracturevuggy carbonate reservoirs;
- Adsorption and desorption in shale and CBM;
- New advances in natural gas hydrate development;
- Gas injection assisting heavy oil development;
- The efficient utilization of multifunctional foam fluid:
- CO₂-based enhanced oil recovery (EOR) in unconventional oil and gas reservoirs;
- CO2 storage in abundant reservoirs.











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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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