# **Special Issue**

# Application of Nanomaterials in Oil and Gas Drilling and Production

# Message from the Guest Editors

In drilling and production operations, suspension systems such as drilling, fracturing and well completion fluids; and cement slurries are needed to drill the well and manage the flow safely and favourably. The dynamics and rheology of such suspensions and their performance are critical for efficient and economic operations. Recent advances in particle technology have shown promising outcomes regarding the use of the nanomaterials in suspensions to mitigate issues such as high-temperature conditions, frictions in flow and environmental concerns. In this Special Issue, the aim is to provide a platform to share advances in adapting the novel suspension systems for applications in drilling and fracturing fluids, blocking agents, cement slurries, and other fluids that are used downhole. Their dynamics and physiochemical characteristics are vital for the industry to consider their use in field operations. We would like to invite authors who have conducted theoretical, field trial or experimental studies of nanoenhanced fluids for oil and gas drilling, and production applications share their outcomes with the industry and scientific community in this Special Issue.

# **Guest Editors**

Dr. Amin Sharifi

School of Engineering, University of Aberdeen, Aberdeen AB24 3UE, UK

Dr. Roozbeh Rafati

School of Engineering, University of Aberdeen, Aberdeen AB24 3UE, UK

# Deadline for manuscript submissions

closed (31 March 2021)



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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

mdpi.com/journal/ sustainability





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Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, USA

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