# **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**

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## Deadline for manuscript submissions

closed (31 March 2021)



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# Editor-in-Chief

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