



Polymer Flooding and Rheology

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Polymer flooding is the most frequently implemented chemical enhanced oil recovery process and has received increased attention since several successful large-scale polymer flood projects were reported in the literature.

The extensive research effort has changed the perception of polymer flooding from a simple augmented water flood toward being identified as an extremely complex EOR process. This is mainly due to the non-Newtonian nature of water-soluble polymers as they flow through porous media. Despite intensive research, significant controversy and uncertainties are still associated with several topics within polymer flooding technology. One of these topics is polymer in situ porous medium rheology. Articles on bulk and in situ rheology are requested, and also modelling and experimental results on porous medium rheology. Studies of the impact of rheology; salinity; polymer structure; polymer molecular weight; flow geometry; retention; adsorption; mechanical degradation; and mobility ratio on oil recovery are key elements for improving our understanding of polymer flooding potential.

Prof. Dr. Arne Skauge
Guest Editor





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