

Special Issue

Microbial Enhanced Oil Recovery: Advances in Theory and Sustainable Applications

Message from the Guest Editors

Several renewable-energy based technologies have been developed and proposed to reduce our reliance on crude oil and its derivatives. However, still it lacks the cost-competitive edge with fossil fuels. Thus crude oil/fossil fuels and its derivatives still plays an immense role in day-to-day life. This leads petroleum industries for continuous-improved crude oil production and upgrading of oil recovery processes to ensure sustainable and economical outcomes in effective manner. Over the years different types of enhanced oil recovery (EOR) techniques are developed to economically improve oil extraction and recovery yields. EOR processes are targeted for ~50% of the oil which still remains trapped in the reservoir after primary and secondary recovery stages. Different EOR technologies are employed worldwide, amongst which, chemicals based technologies are widely employed due to ease of application and availability. However, Microbial EOR (MEOR) processes are gaining attention due to their environmental friendly nature, ease and competitive cost of applications in petroleum industry.

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