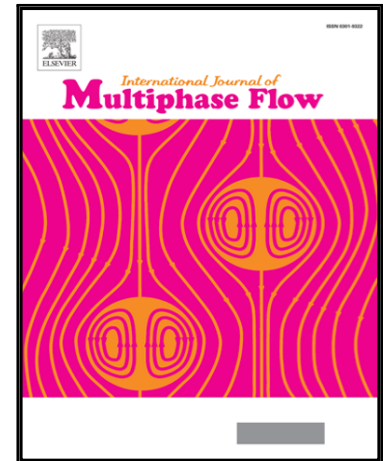


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A New Approach to Characterize the Performance of Heavy Oil Recovery due to Various Gas Injections

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Highlights

- Effects of CO₂, N₂ and HC injection on oil recovery were investigated.
- Oil bypassing and trapping caused recovery reduction at rates higher than critical.
- IFT reduction due to CO₂ injection may not improve oil recovery drastically.
- A new dimensionless number was proposed to evaluate the performance of GAGD.
- Oil viscosity reduction and oil swelling are the dominant mechanisms.

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