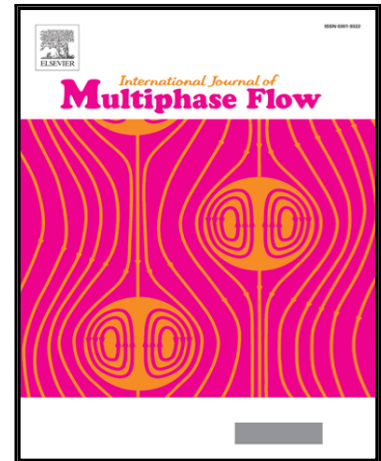


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A Taylor drop rising in a liquid co-current flow

F.J.N. Direito, J.B.L.M. Campos, J.M. Miranda

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Highlights

- Flow patterns of Taylor drops rising in co-current vertical flow are determined.
- Balance between co-current flow and gravity forces is crucial for drop behavior.
- Stabilization distance below the drop depends on the drop Reynolds number.
- Drop velocity and continuous phase velocity are linearly related.
- Viscosity ratio causes a deviation from the gas-liquid case.

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