

## Accepted Manuscript

Viscous stress distribution over a wavy gas-liquid interface

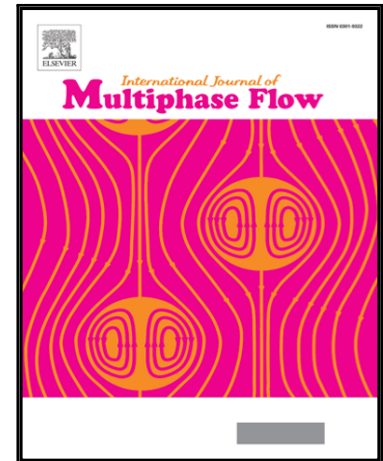
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**Highlights**

- Viscous stress is measured over 2D millimeter scale waves using PIV
- Data are conditionally phase-averaged based on wave steepness
- Normal viscous stress increases with steepness while the shear stress decreases
- Flow separation is observed in the trough and alters the stress distribution

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