

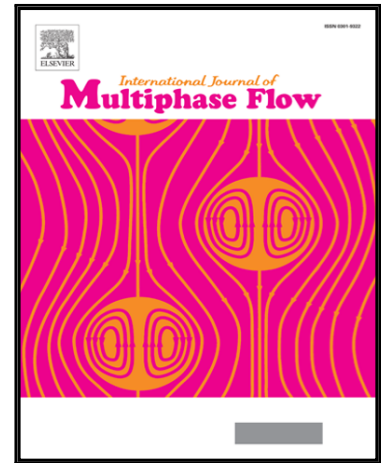
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Characterisation of Gas-Liquid Two-Phase Flow in Minichannels with Co-Flowing Fluid Injection inside the Channel, Part II: Gas Bubble and Liquid Slug Lengths, Film Thickness, and Void Fraction within Taylor Flow

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Highlights

- Downward gas–liquid flow was studied experimentally at a pressure of 1 MPa.
- Capillary injectors of different diameters were used as gas-liquid feeding system.
- Bubble formation was analysed in detail for various homogeneous Taylor flows.
- Novel correlations to predict gas bubble and liquids slug lengths are provided.
- The equations are based on significant dimensionless numbers.

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