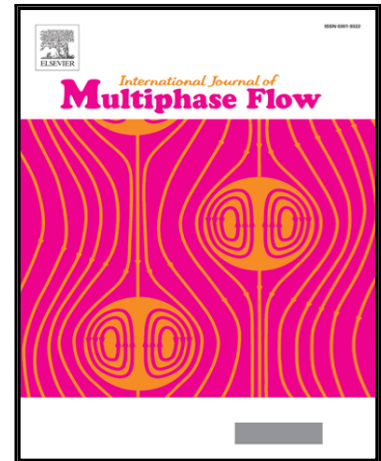


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Air cavities at the inner cylinder of turbulent Taylor-Couette flow

Ruben A. Verschoof, Dennis Bakhuis, Pim A. Bullee,
Sander G. Huisman, Chao Sun, Detlef Lohse

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HIGHLIGHTS

- Study on the effect of air cavities in Taylor-Couette flow
- Flow visualizations show dependence on Reynolds number, void fraction, and axial position
- Large difference between net and gross drag reduction
- Local air injection is not crucial for efficient drag reduction -as long as sufficient air is available anywhere in the flow.

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