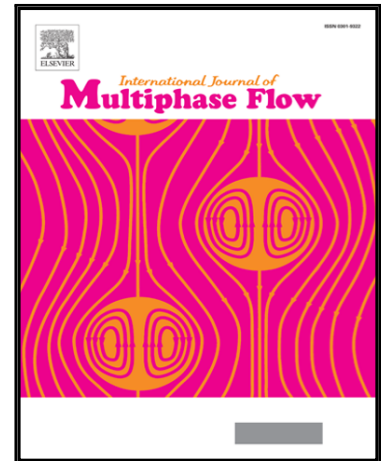


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Early Stages of Agglomeration of Adhesive Particles in Fully-Developed Turbulent Pipe Flows

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Highlights

- Particle agglomeration in turbulent pipe flows using two-way coupled LES and soft-sphere DEM with JKR adhesiveness model
- A peak in agglomeration rate is observed for intermediate Stokes numbers where larger agglomerates are formed.
- Variations in particle adhesiveness are observed to greatly affect the radial agglomerate number density profile

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