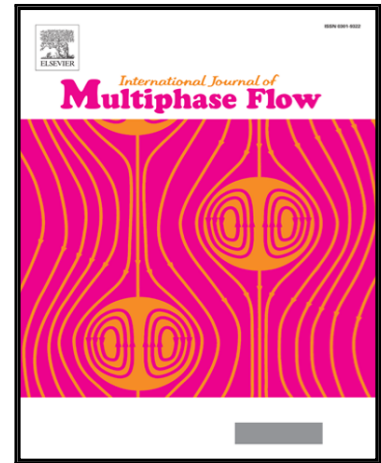


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Effects of particle polydispersity on radiative heat transfer in particle-laden turbulent flows

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Highlights

- The effects of polydispersity and particle clustering on the effective heat transfer between a gas phase and a solid particle phase are investigated.
- The DNS results for the heat transfer from solid particles to gas is compared to the predictions of a semi-analytical one-dimensional model.
- Closure corrections for the effective heat transfer are examined for monodisperse and polydisperse particle settings.

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