

Special Issue

Multifluid Computational Fluid Dynamic Simulation

Message from the Guest Editor

This Special Issue aims to showcase the current state of the art in multifield modelling of multiphase flows, providing a platform to disseminate the most recent modelling advances and inform future developments of the method. Of specific interest are the modelling of interfacial transport processes and low-carbon technological applications where multiphase flows are part of complex multiphysics environments in the process, manufacturing, and energy sectors. Submission of original research and review articles covering the following topics is welcome:

- Computational fluid dynamics of multiphase flows at the laboratory and equipment scale;
- Closure models for interfacial transfer and turbulent transport processes;
- Modelling of heat and mass transfer processes in multiphase flows;
- Multifluid models of complex multiphysics technologies;
- Coupling of multifluid models with machine learning and AI techniques;
- High-fidelity simulations for multifluid model validation and physics-informed closure model development.

Guest Editor

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Deadline for manuscript submissions

closed (20 August 2022)



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Message from the Editor-in-Chief

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Editor-in-Chief

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