



Numerical Methods in Multiphase Flow with Heat and Mass Transfer

Guest Editor:

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Deadline for manuscript submissions:

30 April 2025

Message from the Guest Editor

Dear Colleagues,

The numerical method is now one of the most scientific methods successfully applied to heat and mass transfer in single- and multi-phase flow systems.

This Special Issue focuses on the topics of multiphase flow heat and mass transfer through the development of the numerical methods or the application of existing computational fluid dynamics (CFD) tools to solve existing problems in academic or industrial applications. Research or review papers focused on the following topics are welcome, but not limited to: (a) the application of CFD tools (e.g., finite difference, finite volume, finite element, lattice Boltzmann method, gas kinetic scheme, and smoothed hydrodynamics particle method); (b) the new development of the CFD method; (c) mathematical modeling of multiphase fluid dynamics; (d) fluid–solid interactions; (e) gas–liquid/liquid–liquid flows; (f) miscible and immiscible multicomponent flows; and (g) thermo/thermosolutal capillary convection.





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Message from the Editor-in-Chief

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