# Special Issue

# Advances in Numerical Modeling of Multiphase Flow and Heat Transfer

## Message from the Guest Editors

The process performance and reliability of energy systems strongly depend on the fundamental understanding of thermal-fluid processes which has an urgent demand for highly accurate and reliable modeling methods. Multiphase flow and heat transfer widely couples various physical processes, including fluid flow, heat transfer, mass transfer, phase change, reaction, multiscale characteristics, spatio-temporal transient characteristics, interface generation and evolution, and multicomponent flow. The corresponding numerical modeling is still a great challenge and has attracted continuous research attention. This Special Issue aims to introduce the latest development direction and outstanding advances in multiphase flow and heat transfer. Topics include but not limited to the numerical modeling of multiphase flow and heat transfer in various applications. Modeling works including model development and numerical investigations involving multiphase flow and heat transfer are all welcome for submission to this Special Issue.

## Guest Editors


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Prof. Dr. Xiaodong Wang


## Deadline for manuscript submissions

closed (16 October 2024)


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## Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

## Editor-in-Chief

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