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## Advances in Multiphase Flows

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Guest Editor:

### Message from the Guest Editor



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submissions:**

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Dear Colleagues,

Multiphase flows are ubiquitous in nature and engineering applications, such as sediment transport in rivers, sandstorms, airborne transmission of coronaviruses, slurry transport, fluidized beds, and atomization. Despite numerous studies, the physical mechanisms and modeling of transport processes in multiphase flows remain poorly understood, due to complicated interactions between particles and the carrier fluid and the multi-scale behavior of multiphase flows.

This Special Issue welcomes original (and review) works related to analytical, numerical, or experimental studies of multiphase flows and related applications. The contributions involving new phenomena, mechanisms, computational methods, and engineering models on multiphase flows are particularly welcome.

Note: Order guest editors alphabetically according to surname

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### Keywords:

- bubble dynamics
- droplet dynamics
- particle dynamics
- particle-laden flows
- multiphase flows
- computational method
- particle–turbulence interactions
- direct numerical simulation



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