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# Advancements in Multiphase Fluid Dynamics in Energy and Propulsion Systems

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Deadline for manuscript submissions:

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## **Message from the Guest Editors**

Dear Colleagues,

Multiphase turbulence plays a fundamental role in broad range of engineering and basic science applications. One of the most important features is the presence of a wide spectrum of length scales and timescales associated with the phase-interphase, smallest (particle) motions, and also the emergence of anisotropic turbulence structures. Establishing a predictive understanding in multiphase turbulence requires an integrated computational, theoretical, and experimental approach able to provide validated models and useful insights of the governing physics. Supercomputing power and algorithms have set the stage for the emergence of high-fidelity tools, opening the possibility for first-principles modelling of multiphase turbulence and will be crucial towards the design of future propulsion systems.

This Special Issue seeks multi-disciplinary scientific contributions in areas encompassing computational, experimental, or theoretical research that advance the understanding of multiphase turbulence in confined environments. We invite original papers on basic scientific research, latest reviews, analytical studies, which are relevant to aerospace and propulsion sciences.











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# **Message from the Editor-in-Chief**

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