Special Issue

Advancements in Multiphase Fluid Dynamics in Energy and Propulsion Systems

Message from the Guest Editors

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.

Guest Editors

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Deadline for manuscript submissions

closed (28 February 2022)

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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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