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Advancements in Multiphase Fluid Dynamics in Energy and Propulsion Systems

Guest Editors:

Prof. Dr. Luis Bravo

U.S. Army Research Laboratory,
6340 Rodman Road, Aberdeen
Proving Ground, MD, USA

Dr. Anindya Ghoshal

U.S. Army Research Laboratory,
6340 Rodman Road, Aberdeen
Proving Ground, MD, USA

Dr. Michael J. Walock

U.S. Army Research Laboratory,
6340 Rodman Road, Aberdeen
Proving Ground, MD, USA

Deadline for manuscript
submissions:

closed (28 February 2022)

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.



mdpi.com/si/33796

Special Issue



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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