Special Issue

Fundamentals and Applications of Multiphase Flow and Heat Transfer

Message from the Guest Editors

Multiphase flow and heat transfer have wide applications in the fields of new and renewable energy, cleaning coal technology, nuclear energy, as well as mechanical engineering, petrochemical engineering, environmental engineering, etc. In order to achieve safety, high efficiency, and emission reduction in industrial processes, we must extend our research beyond its previous limits, broaching the fundamentals of multiphase flow and heat transfer in an interdisciplinary manner and focusing on extreme working conditions, complex fluids, cross-scale coupling, etc. This Special Issue entitled “Fundamentals and Applications of Multiphase Flow and Heat Transfer” aspires to highlight the frontiers and recent progress in a broad range of theoretical studies and applications, covering a broad range of topics of interest, including but not limited to the following: cavitation, biomedical, acoustics, nucleation; contact line structure and dynamics; industrial applications; micro- and nanoscale multiphase flows; modelling and computational methods; particle, bubble, and droplet dynamics; reactive multiphase flows; turbulence in multiphase flows.

Guest Editors

Prof. Dr. Bofeng Bai

State Key Laboratory of Multiphase Flow in Power Engineering, Xi'an Jiaotong University, Xi'an 710049, Shaanxi, China

Dr. Ke Wang

College of Mechanical and Transportation Engineering, China University of Petroleum, Beijing 102249, China

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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