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Heat and Mass Transfer in Multiphase Flows

Guest Editors:

Dr. Afrasayab Khan

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Dr. Khairuddin Sanaullah

Deadline for manuscript submissions:
closed (10 July 2023)

Message from the Guest Editors

The aim of this special issue is to provide a platform to the research community working in the domain of these multiphase flows to present their works dealing with the interaction of more than one fluid phase from industrial as well as lab-scale equipment with special reference to the heat and mass transfer. Manuscripts dealing with energy conversion systems will be of special interest. The systems under consideration can be from the fossil-fueled energy industry, nuclear power section, HVAC and so on.

This SI will include articles, which will cover topics, on steam flow and condensation; Up/Down steam injection into water with different configurations of steam jets including sub-sonic, sonic and superheated; shock wave/steam jet interaction and other relevant topics involving energy transformations and consumption. Also, to model the physical characteristics of steam jet interaction with the water as well as the condensation rates, it can be useful to implement the utilization of source values of physical dimensionless parameters such as Reynolds number (Reo), Plume Richardson number (Ripo), entrainment coefficient (αo), buoyant vertical scale (Bo) and others.

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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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