Special Issue

Heat Transfer and Fluid Dynamics in Boiling Systems

Message from the Guest Editors

This Special Issue aims to bring together state-of-the-art experimental and numerical research contributions exploring the mechanisms of heat transfer and fluid dynamics during boiling phenomena. Special attention will be given to recent results regarding heat transfer enhancement during boiling under various conditions, especially from studies using novel and promising methods of heating surface modification. Papers devoted to the development of novel two-phase heat transfer devices utilizing boiling are also highly encouraged. Topics of interest for publication include, but are not limited to:

- Heat transfer during pool and flow boiling;
- Flow boiling in micro- and macro-channels;
- Fluid dynamics during boiling;
- Boiling improvement;
- Surface modification techniques for boiling improvement;
- Two-phase heat transfer devices;
- Novel two-phase measurement and visualization techniques;
- Numerical simulation and modelling of boiling.

Accepted papers will be published on a rolling basis. We look forward to receiving your submissions.
Dr. Ronshin Fedor

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Deadline for manuscript submissions

closed (11 December 2023)

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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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