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Heat Transfer and Multiphase Flow in Renewable Energy and Energy Storage System

Guest Editors:

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Deadline for manuscript submissions:
closed (28 February 2023)

Message from the Guest Editors

Topics of interest for this Special Issue include, but are not limited to:

- Thermal energy storage techniques, including sensible heat, latent heat, and thermochemical heat or a combination of these.
- Oval phase-change materials for thermal storage and management, including organic, inorganic, and eutectic or micro/nanoencapsulated phase-change materials.
- Advanced microchannel heat sink, heat pipe, and vapor chamber.
- Boiling and condensation on functional surfaces and micro/nano-structures.
- Cooling electronic devices and battery thermal management systems of electrical vehicles, including air cooling, liquid cooling, and phase-change material cooling or heating.
- Latent heat function of nanofluids and nanocapsules.
- Micro/nano heat transfer and multiphase flow of thermal energy storage and thermal management systems, including both experimental and computational studies.
- Advanced energy storage management systems.
- Advanced solar receivers and power cycles.

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Message from the Editor-in-Chief

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