

Special Issue

Advanced Heat Transfer Technologies for the Design, Operation and Optimization of Steam Power Systems

Message from the Guest Editors

Topics include, but are not limited to, the following:

- Heat transfer enhancement, multiphase flow, heat and mass transfer, microscale heat transfer, and the heat and mass transfer characteristics of porous materials in steam power systems;
- Combined cycles, advanced cycles, and thermoeconomics analyses of steam power systems;
- The design, performance simulation, and optimization of complex and novel steam power systems;
- Mechanical analyses of steam power systems;
- The performance prediction, status monitoring, fault diagnosis, and health management of steam power systems.

Guest Editors

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Prof. Dr. Yanjun Li

Dr. Jianxin Shi

Deadline for manuscript submissions

closed (15 May 2025)



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Editor-in-Chief

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