

Special Issue

Heat Transfer Analysis and Modeling in Furnaces and Boilers

Message from the Guest Editors

This Special Issue aims to present recent advances in heat transfer analysis and modeling for sustainable development of furnaces and boilers. Topics of interest for publication include but are not limited to:

- Fundamental research (convective, conductive, and radiative) on heat transfer mechanisms in boiler and furnaces;
- Computational coupling among heat transfer modes, fluid dynamics, and combustion chemistry;
- Laminar/turbulent flows and heat transfer;
- Optimization in thermal engineering;
- Radiative heat transfer analysis in boilers and furnaces;
- Modeling and theoretical analysis for heat transfer enhancement techniques, energy saving, and flue gas cleaning;
- Heat transfer analysis and modeling for sustainable energy technology—fuel cells, solar energy, energy storage, etc.;
- Reactive flows and combustion heat transfer;
- Energy recovery and heat integration in hybrid energy systems (solar, nuclear, etc.);
- Heat transfer evaluation in industrial biomass and solid fuel boilers.

Guest Editors

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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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