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New Challenges in Heat Transfer Enhancement

Guest Editor:

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Deadline for manuscript submissions:
closed (31 January 2024)

Message from the Guest Editor

This Special Issue aims to supply all interested people working in this field with a helpful resource which could contribute to deepening our understanding of heat transfer issues.

The following topics are particularly suitable to this Special Issue:

- Heat transfer in special materials:
  - Anisotropic materials: single crystals, fiber composites, two-dimensional materials such as graphene.
  - Biological materials: animal and human tissues, foods, plants and other systems from the nature.
  - Soils and building construction materials.
- New types of insulating materials.
- Devices to increment the heat transfer:
  - Heat pipes.
  - Engine assisted fluid circulation.
- Devices or systems to insulate:
  - New insulating materials, eventually directional.
  - Passive solar systems such as Trombe–Michel wall or Barra–Costantini wall.
  - Convection reduction or abolition through insertion of screens and interlayers.

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Message from the Editor-in-Chief

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