

## Special Issue

# Novel Research on Heat Transfer and Thermodynamics

### Message from the Guest Editor

We are proud to call for high-quality papers addressing the important fields of heat transfer and thermodynamics. Recent advances in heat transfer demonstrate the enormous endeavours researchers have undertaken in order to understand the physics involved in the boundary layer and wall surface for natural/forced convection or conduction/radiation phenomena, where thermal conditions and applications are relevant. Efforts to meet the constantly increasing demand of the technology industry for solutions aim to enhance the thermal performance of processes and devices. Methods to achieve this can involve both passive and dynamic techniques. On the other hand, research on thermodynamics and its applications is also abundant, and it has been frequently combined with heat transfer in order to obtain a higher efficiency of cycles, such as the organic Rankine cycle (ORC). In addition, aiming to mitigate the consequences of climate change, the field of combustion is starting to place emphasis on the application of techniques such as computational fluid dynamics. Please consider submitting your work to this Special Issue of the Journal of Applied Sciences.

### Guest Editor

Prof. Dr. Fernando Zenaïdo Sierra-Espinosa  
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### Deadline for manuscript submissions

closed (20 March 2025)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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