Special Issue

Advanced Heat and Mass Transfer Techniques in Power and Energy Systems

Message from the Guest Editors

Heat and mass transfer is a key process in energy systems, especially more recently developed energy systems, such as solar energy systems, compact nuclear power systems, energy storage systems, biomass energy utilization systems, new energy vehicles, advanced aerospace engines, etc. The heat and mass transfer process functions in extreme working conditions, and it is coupled with multiphysical fields and various design-based demands. Many advanced heat and mass transfer techniques, such as micro/nanoscale heat and mass transfer, supercritical flow heat transfer, compact heat exchanger, electromagnetic coupling heat and mass transfer, multi-objective design, etc., will be developed and investigated in this Special Issue. This Special Issue aims to enable the exchange in research data and ideas related to heat transfer-related subjects. Potential topics of interest include, but are not limited to, the following subjects: Convection heat transfer; Radiation heat transfer; Heat conduction; Condensation, boiling, and evaporation; The development of numerical models; Enhanced heat transfer technique; Micro/nanoscale heat and mass transfer, etc.

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Deadline for manuscript submissions

closed (30 September 2024)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/183108

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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.

Editor-in-Chief

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