Special Issue

Applications of Thermofluids in Power Generation Systems

Message from the Guest Editors

At present, the efficiency of power generation systems concentrates a great deal of research interest, since energy consumption globally needs to be reduced for environmental and financial reasons. The main goal of this Special Issue is to present the current state-of-the-art and the recent progress in the field of applied thermodynamics, heat transfer, and the application of thermofluids for power generation systems, towards improved energy efficiency. The integration of innovative methods (including analytical and numerical methods) or materials (in the direction of energy storage), the investigation of new working fluids or cycles, the combination of cycles or the use of components that could lead to improved efficiency may be presented in this Special Issue.

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Deadline for manuscript submissions

closed (31 December 2023)

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/130940

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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