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Supercritical Fluids for Thermal Energy Applications

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Deadline for manuscript submissions:

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Message from the Guest Editors

Dear Colleagues,

Worldwide energy demand increase is a clear indicator of human and wealth development as we, as a modern society, require higher levels of energy to maintain our living standards. Nevertheless, a change in electricity and heat generation is required, including more efficient energy conversion systems. In order to achieve that, supercritical fluids have drawn the attention of the scientific community based on their peculiar thermophysical properties leading to highly efficient solutions according to thermodynamics.

This Special Issue seeks to capture the latest research in supercritical fluids for thermal energy applications whether for renewable applications, nuclear engineering, waste heat recovery, and much more, with a clear interest in entropy analysis and thermodynamics optimization.



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Special Issue



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Message from the Editor-in-Chief

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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