Special Issue

Energy Technology and Thermodynamics

Message from the Guest Editor

Exergy analysis (the combination of the first and second laws of thermodynamics) is recognized as the most effective tool for evaluating the quality of energy carriers, the inefficiencies in energy-conversion or energy-intensive chemical processes, and the rational use of energy. This Special Issue focuses on the application of the first and second laws of thermodynamics as well as exergy analysis for the modelling, analysis, evaluation, improvement, and optimization of different energy-conversion systems. Reports on any kind of power generation systems, hybrid power generation systems, systems implementing renewable energy sources, energy storage concepts, refrigeration, and cryogenic systems are invited.

Guest Editor

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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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Editor-in-Chief

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