Special Issue

Application of Exergy Analysis to Energy Systems II

Message from the Guest Editor

The evaluation and improvement of energy-conversion and energy-intensive chemical systems from the perspectives of their sustainability (thermodynamics, economics, and environmental impacts) require a deep understanding of:-The real thermodynamic inefficiencies and the processes that cause them-The costs and environmental impact associated with equipment and thermodynamic inefficiencies as well as the connection between those three important factors. To reduce the thermodynamic inefficiencies, costs, and environmental impacts in a system, we must understand their process of formation. Exergy-based methods reveal the location, the magnitude, and the sources of inefficiencies, costs, and environmental impact and allow us to study the interconnections between them and the real potential for improvement. The input from these methods is useful in developing strategies for improvement and optimization of energy-conversion and energy-intensive chemical systems.

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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