



Application of Exergy Analysis to Energy Systems

Guest Editor:

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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;
- The interconnections among efficiency, investment cost, and component-related environmental impact associated with the selection of specific system components; and
- Probable measures that would reduce the inefficiencies, the cost, and the environmental impact of the system being studied.

Research and review papers in the field of application of exergy-based methods are sought for this 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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