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## Thermodynamic Analysis and Process Intensification

Guest Editor:

**Prof. Dr. Yasar Demirel**

Chemical and Biomolecular  
Engineering, University of  
Nebraska-Lincoln, Lincoln, NE  
68588, USA

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### Message from the Guest Editor

Process intensification focuses on considerable improvements, in tens to hundreds of percent, in the manufacturing sector through the modification of existing operations or new designs that are precise efficient, economical, and safer. Process intensification (PI) enables the manufacturing sector to remain competitive and can be achieved by focusing on molecular levels of reaction kinetics, thermodynamics, and heat and mass transfer. Thermodynamic analysis suggests process improvements toward better matching the design parameters with the operating conditions that lead to less irreversible processes with less entropy production, hence less dissipated energy. Besides, the analysis of information flow between interacting parts of a process may help increase compatibility and reduce the overall irreversibility toward improving the overall efficiency.



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**Special** Issue



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## Editor-in-Chief

### **Prof. Dr. Kevin H. Knuth**

Department of Physics, University  
at Albany, 1400 Washington  
Avenue, Albany, NY 12222, USA

## 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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Entropy Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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