



Thermodynamics and Sustainable Development

Guest Editors:

Prof. Dr. Javier Rodríguez-Martín

ETSI Industriales, Universidad
Politécnica de Madrid (UPM),
José Gutiérrez Abascal 2, 28006
Madrid, Spain

Dr. Ignacio López-Paniagua

Energy Engineering Department,
Universidad Politécnica de
Madrid (UPM), 28006 Madrid,
Spain

Dr. Antonio Soria-Verdugo

Department of Thermal and
Fluids Engineering, Carlos III
University of Madrid, 28013
Madrid, Spain

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Message from the Guest Editors

Dear Colleagues,

Sustainability must be integrated into the design process: indicators must be developed, thermodynamic-economic-environmental cost functions must be calculated, an optimum design solution must be selected. Efficiency is a central topic in sustainability. New, high-efficiency processes are required, as well as hybridization and other techniques for boosting the efficiency of state-of-the-art technologies. Minimizing exergy waste is critical: extensive research on new storage technologies and strategies to integrate storage in a wide range of processes is required. Indicators, functions and methodologies to monitor the full impact of technological processes on the environment need to be developed. In this sense, life cycle analysis is a powerful tool for a complete evaluation of different technologies. Criteria and studies for sustainability policy-making are also relevant.

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Prof. Dr. Antonio Soria-Verdugo
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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
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