



an Open Access Journal by MDPI

Thermodynamics and Sustainable Development

Guest Editors:

Dr. Javier Rodríguez-Martín

Escuela Técnica Superior de
Ingenieros Industriales,
Universidad Politécnica de
Madrid, 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

Deadline for manuscript
submissions:

closed (20 October 2021)

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.

Prof. Dr. Javier Rodríguez-Martín

Prof. Dr. Ignacio López-Paniagua

Prof. Dr. Antonio Soria-Verdugo

Guest Editors





an Open Access Journal by MDPI

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

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)