

Modeling and Optimization of Hybrid Energy Systems

Guest Editors:

Dr. Weiping Zhang

Electronic and Information
Engineering, Nanchang
University, Xuefu Road 999,
Nanchang, China

Dr. Akbar Maleki

Mechanical Engineering,
Shahrood University of
Technology, Shahrood
9WWR+757, Iran

Deadline for manuscript
submissions:

closed (5 March 2023)

Message from the Guest Editors

Novel methods used for optimization and evaluation of energy systems (hybrid optimization algorithms, improved optimization algorithms, useful models and efficient optimization methods);

Modeling of hybrid energy systems integrated with desalination units;

Intelligence methods applicable for modeling of energy technologies;

Energy system optimization based on renewable energy (solar and wind energy) for thermal and electrical generation;

Combined heat and power systems optimization based on hybrid optimization algorithms;

Applications of evolutionary methods in optimizing energy systems (heat and electricity production units in the energy systems);

Exergy and exergoeconomic analyses of energy systems;

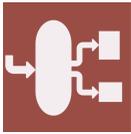
Electrical and thermal analysis of energy systems using intelligence methods;

Economics and performance analysis of energy system using optimization algorithms;

Integration of secure solutions for thermal and electrical generation systems;

Electrical and thermal energy management using intelligence methods.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

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, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)