



Renewable and Sustainable Energy Systems: Recent Developments, Challenges, and Future Perspectives

Collection Editor:

Dr. Alireza Dehghanisanij

Waterloo Institute for
Sustainable Energy (WISE),
University of Waterloo, Waterloo,
ON N2L 3G1, Canada

Message from the Collection Editor

Currently, a transition from non-renewable carbon-based fuels (mainly oil, coal, and natural gas) to renewable, eco-friendly, and sustainable energy sources (e.g., solar, wind, geothermal, hydro) is essential for a variety of reasons, the most important ones being the ongoing and emerging environmental problems and threats, the limited resources of fossil fuels, and fast-growing global demand for energy. Therefore, we need to pay more attention to and invest in clean, renewable, and sustainable energy technologies to overcome or minimize ongoing and emerging challenges facing the world today. Hence, submitting articles, including original research, reviews, case studies, and technical notes covering the following topics to this Special Issue is encouraged:

- renewable energy
- energy sources and production
- energy conversion and storage
- energy efficiency improvement
- energy conservation and management
- hybrid energy systems
- energy quality
- energy and buildings
- climate change
- sustainability





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)