Special Issue

Thin Films for Renewable Energy Production, Storage and Conversion

Message from the Guest Editor

Despite the natural cycle of climate change being an unavoidable reality, history has told us that when past civilizations overstretched themselves or pushed the consumption of natural resources to the edge, the consequences of climate change soon became amplified. We are in a critical period full of challenges and opportunities to address climate change by developing environmentally responsible and sustainable energy technologies. The applications of advanced functional thin films, ranging from the quantum level to nano- and microscale, from inorganic metal oxides to conductive polymers, have been driving the rapid development of energy-saving technologies as well as clean and renewable energy production, storage and conversion in the past decade. This Special Issue aims to collect fundamental and applied original research and review articles on advanced thin films and their roles in reliable renewable energy devices and/or systems, including but not limited to supercapacitors, flow batteries, fuel cells, electrolysis, solar fuel generators, triboelectricity, etc.

Guest Editor

Dr. Dongmei Dong

Department of Physics and Astronomy, Rowan University, Glassboro, NJ 08028, USA

Deadline for manuscript submissions

closed (30 June 2024)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/149144

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)

MDPI