energies

an Open Access Journal by MDPI

IMPACT FACTOR 3.2

CITESCORE 7.3

Concentrating Solar Power Plants

Guest Editors:

Dr. Minerva Díaz-Heras
Department Applied Mechanics and Projects Engineering, Universidad de Castilla-La Mancha, 02071 Albacete, Spain

Prof. Dr. Jose A. Almendros-Ibanez
E.T.S. of Industrial Engineers, Department of Applied Mechanics and Project Engineering, University of Castilla-La Mancha, 02071 Albacete, Spain

Dr. Maria Fernandez-Torrijos
ISE Research Group, Thermal and Fluid Engineering Department, Universidad Carlos III de Madrid, Madrid, Spain

Deadline for manuscript submissions:
closed (31 March 2025)

Message from the Guest Editors

Dear Colleagues,

The need for a rapid transition to a new energy model based on the use of renewable energy is undeniable. Among them, solar thermal energy can be crucial in said energy transition. In other words, important efforts in different research lines are necessary in order to improve the efficiency over the conventional concentrated solar power (CSP) plants.

This Special Issue aims to collate experimental/numerical/field scale investigations with novel materials such as heat transfer fluids, new technologies to transfer the solar energy, development CFD simulations, new experimental results inside of concentrated solar energy solutions, and review papers with state-of-the-art findings that can significantly contribute to the community. The Special Issue is open to all contributions related to CSP plants, including (but not limited to) the following:

- New technologies;
- New heat transfer fluids;
- Improvement in the thermal efficiencies in a CSP;
- State of the art in the thermal energy storage field;
- New simulations of CSP;
- Numerical models;
- Economical viability tests.

energies

an Open Access Journal by MDPI

IMPACT FACTOR 3.2

CITESCORE 7.3

Editor-in-Chief

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

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.

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)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/energies
energies@mdpi.com
𝕏@energies_mdpi