



Advances in Solar Thermal Energy

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Deadline for manuscript
submissions:

closed (15 September 2021)

Message from the Guest Editor

The installation and use of renewable energy sources for electricity production is gaining in importance due to stringent environmental standards seeking to reduce pollutant emissions and fossil fuel dependence. In this context, solar thermal technologies are one of the most promising means for electricity production for the incoming decades and an effective way to fight against climate change. Solar thermal power has shown through groundbreaking commercial projects its many advantages compared to other intermittent renewable electricity sources such as wind or photovoltaics.

Noting all these exciting developments, it has never been more pertinent to launch a Special Issue that seeks to capture the latest research in solar thermal energy ranging from original research, communications, and review papers.

Keywords

- Advanced power cycles
- Software tools for CSP analysis and simulation
- Solar heating and cooling
- Solar-aided (hybrid) power systems
- Thermal energy storage
- Thermochemical energy storage
- Heat transfer fluids
- Small-scale solar systems
- Solar fuels
- Integration of solar thermal energy in buildings





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