

## Special Issue

# Concentrated Solar Thermal Systems: Conversion, Storage, and Utilization

### Message from the Guest Editor

There has been a revived interest in Concentrated Solar Thermal (CST) technologies over the past two decades due to their potential role in a low-carbon economy. CST technologies, with their highly efficient and cost-effective thermal storage systems, provide improved dispatchability compared to variable renewables. This distinctive characteristic positions them to have a considerable share in future green power networks. Beyond power generation, CST systems have emerged as a potential substitute for fossil-fueled heat provision across large-scale process industries. Additionally, hybridization with wind and photovoltaic (PV) systems is being considered as a pathway to improve the flexibility and economics of these technologies.

This Special Issue aims to provide a platform for researchers to share their latest findings and innovations in the field. The scope of this issue encompasses all aspects of both conventional and novel CST systems, from generation to utilization. This issue welcomes system-level holistic studies, scientific analyses of different subsystems, feasibility studies, and techno-economic investigations. Review papers are also encouraged.

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### Guest Editor

Dr. Mehdi Aghaei Meybodi  
CSIRO Energy, Newcastle Energy Centre, Newcastle, NSW 2304,  
Australia

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### Deadline for manuscript submissions

closed (20 January 2026)



## Applied Sciences

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CiteScore 5.5



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*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

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### 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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

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