## **Special Issue**

### Solar Thermal Power Generation Technology

### Message from the Guest Editors

This Special Issue focuses on cutting-edge research in solar thermal power generation and heat batteries, covering:

- Concentrating Solar Power Novel designs, materials, and tracking systems.
- Heat Collection & Storage Advanced technologies and materials for efficient thermal storage.
- Solar Heat Pump Cycles Integration with sensible, latent, and thermochemical storage.
- Heat-to-Power Conversion Supercritical CO<sub>2</sub>, ORC, Stirling, Rankine, Kalina, and Cascade cycles.
- Multi-Generation Systems Combined heat/power, cooling, and tri-generation.
- **System Integration** Solar-desalination, industrial heat, grid forecasting, and control.
- Cost & Economic Analysis LCOE and life cycle assessments.
- **Emerging Technologies** Space-based solar power and thermophotovoltaics.

We welcome original research, simulations, experiments, and review articles.

### **Guest Editors**

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### Deadline for manuscript submissions

31 October 2025



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## About the Journal

### Message from the Editor-in-Chief

*Technologies*, provides a single focus for reporting on developments of all technologies, regardless of their application. It is our intention that *Technologies* becomes the journal of choice for both researchers wanting to publish their work and technologists wishing to exploit the high quality research across a wide range of potential applications. Through its open access policy, its quick publication cycle, *Technologies* will facilitate the rapid uptake and development of the research presented, ultimately providing benefit to the wider society.

### Editor-in-Chief

Prof. Dr. Manoj Gupta Department of Mechanical Engineering, National University of Singapore, Singapore 117576, Singapore

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### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.8 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2025).