



*energies*



an Open Access Journal by MDPI

## New Insights of Gas Turbine Cooling Systems

Guest Editors:

**Dr. Xueying Li**

Institute of Gas Turbine,  
Department of Energy and Power  
Engineering, Tsinghua University,  
Beijing 100084, China

**Prof. Dr. Jing Ren**

Department of Energy and Power  
Engineering, Tsinghua University,  
Beijing 10084, China

Deadline for manuscript  
submissions:

**closed (20 April 2023)**

### Message from the Guest Editors

The current Special Issue aims to unite innovative developments and collaborations in relation to the novel insights into gas turbine cooling systems.

The potential topics include, but are not limited to, the following areas:

- Advances in GT cooling (review paper);
- New concept cooling systems in GTs;
- Thermal management in GTs;
- Innovative cooling;
- Additive manufacture-based cooling technology;
- CMC-based cooling technology;
- Novel film cooling;
- Novel internal convective cooling;
- Micro cooling;
- Double wall cooling;
- Advanced experimental techniques in GT cooling;
- Aero-thermal-mechanical analysis in cooling systems;
- Advanced analytical methods in GT cooling.



[mdpi.com/si/114784](https://mdpi.com/si/114784)

# Special Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 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 (*Engineering (miscellaneous)*)

## Contact Us

---

*Energies* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://x.com/energies_mdpi)