

Special Issue

Secondary Air Systems in Gas Turbines

Message from the Guest Editors

They are inviting submissions to a Special Issue of *Energies* on the subject area of “Secondary Air Systems in Gas Turbines”. In order to increase the cycle efficiency and specific work output of gas turbines, the turbine entry temperature (TET) is raised beyond the metallurgical limit of the engine components. Consequently, bleed air is taken from the compressor stages and used to cool the turbine. The intricate cooling pathways, seals, and metering devices are collectively known as the secondary air system (SAS). Effective use of the SAS is paramount: superfluous use of bleed air results in an uncompetitive engine design, whereas insufficient or ineffective cooling has a detrimental effect on engine life. Keywords

- Secondary air systems
- Cavity flows
- Rotor–stator systems
- Ingress and Egress
- Mainstream gas path interactions
- Shaft sealing technologies
- Experimental measurement
- Computational fluid dynamics (CFD)

Guest Editors

Dr. Mauro Carnevale

Dr. Carl Sangan

Dr. James A. Scobie

Deadline for manuscript submissions

closed (10 September 2021)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/52089

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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)