Special Issue

Advancements in Gas Turbine Aerothermodynamics

Message from the Guest Editors

This Special Issue welcomes contributions that explore cutting-edge topics such as the following:

- Revolutionizing Numerical Methods: High-fidelity simulations, turbulence modeling, and advanced aerothermodynamic analyses that redefine our understanding of flow, heat transfer, and performance.
- Innovative Experimental Investigations: Experimental breakthroughs in flow dynamics, thermal management, combustion, and emissions that challenge conventional designs and validate novel concepts.
- Cooling and Combustion Game-Changers: Forward-looking strategies for blade cooling, efficient combustion, and performance optimization, aligning power output with environmental responsibility.
- Bridging the Gap with Hybrid Approaches: Synergistic methodologies combining experimental insights with numerical simulations for unparalleled predictive accuracy.
- AI-Powered Advancements: The transformative role of artificial intelligence and machine learning in revolutionizing turbine design, operational efficiency, and data-driven decision-making.

We look forward to receiving your submissions and sharing work that will shape the future of gas turbine aerothermodynamics.

Guest Editors

Dr. Francesco De Vanna

Dr. Filippo Avanzi

Dr. Silvia Ravelli

Deadline for manuscript submissions

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

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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

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