

Special Issue

Advanced Gas Turbine and Engine Applications

Message from the Guest Editor

The heat and power production sectors are facing unprecedented pressure to reduce their carbon footprint. This requires great efforts to advance new combustion technologies that are cleaner and more fuel-efficient than ever before. This Special Issue “Advanced Gas Turbine and Engine Applications” aims at gathering and publishing the best practice and the state-of-the-art in clean power production technology for electricity and transportation applications. “Advanced Gas Turbine and Engine Applications” is a venue for publishing recent advances in clean combustion technologies for heat and power production, and their associated topics. Suitable topics for this Special Issue include, but are not limited to:

- Renewable fuels
- Spray and atomisation systems
- Oxyfuel combustion
- Carbon capturing
- High-pressure and high-temperature engine-like experiments
- Combustion modelling
- Combustion kinetic mechanism
- Hydrogen and hydrogen carrier energy vectors
- Heat management and heat recovery systems
- Fuel-reforming systems
- Plasma-assisted combustion

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2022)



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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).