Special Issue

Flow, Combustion, and Thermal-Structure of Advanced Aerospace Propulsion

Message from the Guest Editors

Advanced aerospace propulsion systems form the foundation of aerospace transportation in modern society. New demands such as green aviation, urban air mobility, sub-orbital flight, etc., have given rise to new requirements for advanced aerospace propulsion systems. To meet these emerging needs, the field of aerospace propulsion needs to develop innovative, advanced propulsion concepts. This Special Issue aims to highlight the most recent advances related to the concept, design, modeling, application and the flow, combustion and structure of all types of advanced aerospace propulsion systems. Topics of interest include, but are not limited to, the following research areas:

- Advancement in traditional aviation engines like turbofan, turboprop or turboshaft engines, etc.;
- Electric or hybrid propulsion systems;
- Variable cycle engines;
- Combined cycles like TBCC, RBCC, SABRE, etc.;
- Other new aerospace propulsion systems;
- Propulsion system design, modeling, simulation, control and application analysis;
- Combustion organization and simulation of aerospace engines;
- Flow control, simulation and resistance reduction in aerospace engines;
- Structure cooling and design of aerospace engines.

Guest Editors

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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.

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