Special Issue

Advances in Green Propulsion Engine and Environmental Pollution Control

Message from the Guest Editors

To date, intensive efforts have been made to develop an efficient, stable, and green aero-engine. New technologies, including innovative and optimal designs of aero-engines are developed to improve the efficiency and performance of aero-engines. The improvement of aero-engine SFC（Specific Fuel Consumption）is highly beneficial to reduce carbon emissions. Efforts can be made to enahce the efficnecy of engine components. Moreover, the development of advanced thermal cycles is also promising. Hydrogen is also considered to be one of the most promising energy sources and is capable of meeting our rapidly growing energy demands due to its cleanliness, sustainability, zero-carbon, and effectiveness. Topics of interest in green aviation technologies include studies on hydrogen, hydrogen–kerosene blends, the interaction between combustors and turbines, advances in combustion instabilities, combustion chamber design, and combustion strategies and technical solutions, turbine-cooling technology, adavances in fan/compressor design, and the aerodynamic and aeroelastic instabilities of turbomachinery.

Guest Editors

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