



Combustion and Propulsion Systems

Guest Editors:

Prof. Dr. Antonella Ingenito

School of Aerospace Engineering,
La Sapienza University of Rome
Via Salaria 851, 00138 Rome, Italy

Prof. Dr. Claudio Bruno

Department of Mechanical
Engineering, University of
Connecticut, Storrs, CT 06269,
USA

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Message from the Guest Editors

Dear Colleagues,

Propulsion systems encompass all aerospace engines generating thrust. As well known, the thrust is generated by expanding combustion hot products. Improving combustion efficiency of existing thrusters and also proposing innovative solutions are a challenge for future aerospace propulsion devices. Understanding of the physics of combustion, including homogeneous and heterogeneous reactions, heat-mass transfer, the interaction between chemistry and mixing, the effect of compressibility and shock waves interactions at supersonic speeds, thermo-acoustic instabilities, is a must to improve the current technology. CFD is a useful tool to investigate in depth these issues and to propose new strategies.

This Special Issue of *Energies* focuses on articles dealing with experimental, numerical and theoretical investigation of combustion and its applications to ramjets, scramjets, liquid, solid and hybrid rocket propulsion systems.





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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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