

Special Issue

Combustion and Propulsion Systems

Message from the Guest Editors

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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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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