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.

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

Deadline for manuscript submissions

closed (31 March 2022)



Energies

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.2



mdpi.com/si/71060

Energies MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 energies@mdpi.com

mdpi.com/journal/ energies





Energies

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.2



About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)

