

Special Issue

Selected Papers from ECM2021: Recent Advances in Combustion and Propulsion

Message from the Guest Editors

This Special Issue of *Aerospace* invites contributions to highlight recent advances in the theory, experimentation, and development of systems involving combustion processes, for the production and utilization of energy and propulsion. Combustion still plays an important role in the world's energy systems, and it will continue to evolve with the changes in technological demands. In addition, due to the depletion of fossil fuels and the consequences of emissions and the anthropogenic greenhouse effect, new challenges need to be tackled. Novel and advanced concepts in combustion technology will be needed to address the problem of clean and efficient energy conversion into electric and propulsive power. Among such concepts are very lean premixed combustion, advanced supercritical CO₂ gas turbines with oxy-combustion and sequestration, premixed charged compression ignition, hydrogen enrichment of standard fuels in gas turbine combustion, supersonic scramjet combustion for hypersonic transportation, and supercritical combustion rocket engines with regenerative cooling systems, to name but a few.

Guest Editors

Prof. Dr. Francesco Creta

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

Dr. Donato Cecere

Department of Energy Technologies and Renewable Sources (TERIN),
TERIN-PSU-IPSE, S.P. 081, Via Anguillarese, 301, 00123 Rome, Italy

Deadline for manuscript submissions

closed (31 July 2021)



Aerospace

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.0



mdpi.com/si/80843

Aerospace
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
aerospace@mdpi.com

[mdpi.com/journal/
aerospace](https://mdpi.com/journal/aerospace)





Aerospace

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.0



[mdpi.com/journal/
aerospace](https://mdpi.com/journal/aerospace)



About the Journal

Message from the Editor-in-Chief

You are welcome to contribute a research article or a comprehensive review for consideration and publication in *Aerospace* (ISSN 2226-4310), an on-line, open access journal.

Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

Editor-in-Chief

Prof. Dr. Konstantinos Kontis
School of Engineering, University of Glasgow, James Watt Building
South, University Avenue, Glasgow G12 8QQ, Scotland, UK

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), Inspec, Ei Compendex, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Aerospace) / CiteScore - Q2
(Aerospace Engineering)