Special Issue

Green Propulsion: Present Solutions and Perspectives for Powering Environmentally Friendly Space Missions

Message from the Guest Editors

This Special Issue aims to collect contributions in the area of the thermochemical propulsion for launchers and spacecraft operations, focusing on the assessment and on the reduction of the environmental impact deriving from propulsion systems. Potential topics include, but are not limited to:

- Impact evaluation of current propellants and related propulsion technology solutions on environment and involved workers
- Literature surveys, trade-off analyses, and evaluation studies on green propulsion solutions for spacecraft and launchers
- Experimental/numerical/theoretical activities related to green propulsion developments
- Solid, liquid (storable, cryogenic), hybrid thermochemical propulsion systems aiming at improving the sustainability of current and future space industry
- Peculiarities and relevant aspects characterizing the combustion processes of propellants for green propulsion systems
- Issues and improvements related to propellant lifecycle
- Evaluation of short- and long-term effects of combustion products on environment and humans
- Status advancement/final conclusions of projects, or part of them, concerning green propulsion topics.

Guest Editors

Dr. Filippo Maggi

Dipartimento di Scienze e Tecnologie Aerospaziali, Politecnico di Milano, 20133 Milano, Italy

Dr. Paravan Christian

Dipartimento di Scienze e Tecnologie Aerospaziali, Politecnico di Milano, 20133 Milano, Italy

Deadline for manuscript submissions

closed (20 June 2023)

Aerospace

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Impact Factor 2.2
CiteScore 4.0

mdpi.com/si/80199

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

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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

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