

Special Issue

Hypersonic Aerodynamics and Propulsion

Message from the Guest Editor

Hypersonic flight, a frontier in aerospace engineering, promises to revolutionize space launch, global transportation, and defense applications. The development of reliable and efficient hypersonic vehicles, however, presents formidable scientific and engineering challenges. The extreme conditions encountered—including intense aerothermal loads, complex shock-wave/boundary-layer interactions, and real gas effects—demand a deep and nuanced understanding of the underlying flow physics.

Guest Editor

Prof. Dr. Lianjie Yue
Institute of Mechanics, Chinese Academy of Sciences, Beijing 100190,
China

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

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Editor-in-Chief

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

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