

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.

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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.

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