

## Special Issue

# Flow and Heat Transfer in Solid Rocket Motors

### Message from the Guest Editor

Due to various advantages, such as their inherent simplicity, high reliability, and quick responses, solid rocket motors (SRMs) play an important role in space launch vehicles. As their performance can be enhanced through the fundamental mechanisms of their complex flow and heat transfer physics, there is growing interest in the issues encountered in these areas. Indeed, an understanding of complex flow and heat transfer mechanisms, multiphase flow dynamics, and the ablation mechanism of the adiabatic layer are all technical challenges still to be faced in advanced SRM design. Building on this vision, this Special Issue aims to provide an overview of the most recent advances in the field of the flow and heat transfer of SRMs. Potential topics include, but are not limited to, complex flow and heat transfer, ablation mechanisms, multiphase flow modeling, metal droplet behavior, the prediction of SRM performance, the design of combustion chambers and nozzles, and combustion modeling.

### Guest Editor

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## Aerospace

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