

Special Issue

Droplet Impact for Airfoil Performance

Message from the Guest Editors

Airfoil performance degradation due to hazard atmospheric conditions such as heavy rain or icing need of further investigation. The extremely complex physics of the droplet dynamics in the vicinity of airfoils which involves droplet deformation or even aerobreakup prior to impact, collection efficiency, splashing or ice accretion can cause severe degradation of the airfoil performances. In order to adequately predict the degradation, which is necessary for prevention purposes, the knowledge regarding these complex phenomena is of vital importance to improve/obtain models with the required accuracy. In this context, this Special Issue is dedicated to both fundamental and applied studies of the droplet impact on airfoil performance and related physics comprising experimental, theoretical and numerical research.

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