



Advances in the Film Flow Transport Phenomena

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Message from the Guest Editors

Dear Colleagues,

This Special Issue, “Advances in the film flow transport phenomena”, intends to focus on recent developments and findings in the field of fluid dynamics, specifically regarding film flow, a type of fluid flow that occurs when a thin layer of fluid flows over a surface. The articles within this Special Issue will delve into the mechanisms and physics behind film flow, as well as the different techniques and methodologies used to study and analyze it. Some possible areas of focus for articles could include the following aspects:

- The use of computational fluid dynamics (CFD) to simulate and analyze film flow
- The effect of various parameters (such as surface tension, viscosity, and fluid velocity) on film flow
- The use of various experimental techniques to study film flow, such as laser-induced fluorescence and molecular dynamics simulations
- The use of film flow in industrial applications, such as heat exchangers and lubrication systems.





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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