



## Fluid Dynamics Applications in Coatings and Thin Films

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### Message from the Guest Editor

Fluid dynamics describes the movement of liquids and gases and has many practical applications in the fields of physics and engineering. It is a varied field encompassing aeronautics, aerodynamics, hydraulics, acoustics, and hydrology, among others.

It is an area of great interest to materials scientists, as it can assist in the research and development of many coatings and films for use in applications ranging from reducing friction to hydrophobicity and thin liquid films. It provides a structure on which practical problems can be solved and, with the growth of computational modelling methodologies across all scientific disciplines in recent times, has become more important than ever in the development of new coatings for a varied range of applications.





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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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