



Hydrophobic, Superhydrophobic, and Oleophobic Surfaces: Durability and Applications

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Message from the Guest Editors

The generation of anti-wetting materials and surfaces has become prolific in recent years. Novel surface engineering techniques span the gamut of disciplines from controlled precipitation to lithography to self-assembly. Although the properties of these surfaces, as prepared, can be stunning, their performance after extended application or exposure to adverse conditions is rarely addressed. Cyclic wetting experiments, controlled or random abrasion processes, and other methods that would emulate operational conditions or environmental exposure can all affect the wetting behavior of engineered surfaces. In this issue, the emphasis is on the retention anti-wetting behavior and measured changes in wetting properties after surfaces have been subjected to real or simulated exposure and wear.

Contributions to this Special Issue are welcomed on all subjects related to the durability and stability of hydrophobic, superhydrophobic, and oleophobic surfaces.





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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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