Special Issue

Mechanisms and Applications of Superhydrophobic Surfaces

Message from the Guest Editor

After being inspired by natural features such as lotus leaves, rice leaves, butterfly wings, and strider legs, various artificial superhydrophobic surfaces have been developed using physical and chemical approaches. However, many experimental phenomena and mechanism insights remain to be explored to facilitate further development of high-performance superhydrophobic surfaces. Therefore, we are pleased to invite you to contribute to a Special Issue on "Mechanisms and Applications of superhydrophobic surfaces". In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Designs and preparations of superhydrophobic surfaces.
- Synthesis of novel superhydrophobic organic/inorganic coating materials.
- New understanding and insight based on detailed characterization of coatings and processes.
- Isotropic and anisotropic wettability.
- The sustainability and durability of superhydro-phobic surfaces.
- Self-healing wettability.
- Life-cycle and recyclability of coatings.
- Various applications of superhydrophobic surfaces.

Guest Editor

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closed (20 September 2024)

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About the Journal

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.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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