Special Issue

Recent Advances in Hydrophobic Coatings

Message from the Guest Editor

Surface functionalization through the deposition of coatings can have beneficial impacts on the substrate. Providing hydrophobicity to materials can widen their scope in numerous applications and improve their compatibility with polymers for developing strong durable composites. Hydrophobic coatings have been successfully fabricated using various approaches and have substantially improved substrate durability and performance. This issue welcomes research on waterproof coatings prepared by different processes and their deposition on a variety of substrates, such as bio-based materials, cellulose, ceramics, and metals. The scope of this Special Issue will serve as a forum for papers based on, but not limited to, the following topics:

- Experimental research on hydrophobic, waterproof and water-resistant coatings.
- Recent advancements in multi-functional organic, inorganic, hybrid and self-cleaning coatings
- Coatings produced by different processes, including, but not limited, to sol-gel, plasma processing, CVD, and in situ additive manufacturing.
- Understanding coating durability and degradation through friction, wear, weathering UV, corrosion, etc.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2022)

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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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