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Superhydrophobic Surfaces for Anti-corrosion Applications

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Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editor

Dear Colleagues,

It is known that superhydrophobic surfaces with corrosion resistance play important roles in many fields, such as in the textile industry, naval architecture, special materials, and building protection. The anti-corrosion property has been proven to be associated with many interface factors, including micro/nano hierarchical structures, surface energy, interface pinning effect, etc. Inspired by this, we are compiling a Special Issue on 'Superhydrophobic Surfaces for Anti-corrosion Applications', to encourage researchers to present their novel research and results pertaining to this topic. We would like to cordially invite you to contribute to this Special Issue. The theme of this issue broadly includes, but is not limited to, the following:

(1) Synthesis of superhydrophobic organic/inorganic materials;

(2) Preparation of micro/nano hierarchical or biomimetic structures;

(3) Superhydrophobic/superhydrophilic applications;

(4) Anti-corrosion applications in industry, transportation, daily life, lab, etc.;

(5) Novel or special superhydrophobic modification;

(6) Surface energy control under macro/micro-scale.

Dr. Jing Yu
Guest Editor

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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.

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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