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Superhydrophobic Surface: Functional Materials

Guest Editor:

Dr. Zhong Xiong
College of Chemistry and Chemical Engineering, Qingdao University, Qingdao City, China

Deadline for manuscript submissions:
closed (31 December 2023)

Message from the Guest Editor

Dear Colleagues,

Superhydrophobic surfaces exhibit strong water repellence. In the past decade, superhydrophobic surfaces have revealed a cornucopia of novel structural and functional properties, exhibiting considerable importance in both fundamental research and practical applications. Fabricating methods and the working performance of superhydrophobic surfaces with multidisciplinary functionalities include self-cleaning, antifog, anticorrosion, fluidic drag reduction, antibiofouling, droplet transportation, and oil–water separation. The topics of interest for this Special Issue, in particular, include (but are not restricted to):

- Green and facile strategy to prepare superhydrophobic surface
- Novel functional materials or coatings for superhydrophobicity
- Durable or abrasion-resistant superhydrophobic surface
- Transparent superhydrophobic coating
- Superhydrophobic, superhydrophilic, or superamphiphilic surfaces for oil–water separation
- Superhydrophobic surfaces for biomedical application
- Superhydrophobic coatings in micro–nano devices

We look forward to receiving your contributions.

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Editors-in-Chief

Prof. Dr. Wei Pan
State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy
NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

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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Contact Us

Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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