



Superhydrophobic Surfaces for Anti-corrosion Applications

Guest Editor:

Dr. Jing Yu

Shandong Provincial Engineering and Technical Center of Light Manipulation, School of Physics and Electronics, Shandong Normal University, Jinan 250014, China

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



mdpi.com/si/115760

Special Issue



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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)

Contact Us

Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/coatings
coatings@mdpi.com
X@Coatings_MDPI