





an Open Access Journal by MDPI

Mechanisms and Applications of Superhydrophobic Surfaces

Guest Editor:

Dr. Chi-Vinh Ngo

Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences, Changchun 130033, China

Deadline for manuscript submissions:

20 September 2024

Message from the Guest Editor

Dear Colleagues,

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 superhydrophobic surfaces.
- Self-healing wettability.
- Life-cycle and recyclability of coatings.
- Various applications of superhydrophobic surfaces.







IMPACT FACTOR 3.4



an Open Access Journal by MDPI

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 called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. Coatings is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers on the hottest 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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Materials Science, Coatings & Films*) / CiteScore - Q2 (*Surfaces and Interfaces*)

Contact Us