Special Issue

Research Progress in Superhydrophobic Surfaces: From Design to Application

Message from the Guest Editor

The Special Issue aims to showcase the latest research progress in the field of superhydrophobic surfaces, with a focus on the full spectrum from fundamental design strategies to practical applications. We welcome the submission of original research articles, reviews, and short communications that explore innovative surface architectures, advanced fabrication methods (including laser processing, chemical etching, electrospinning, and 3D printing), theoretical models of wetting behavior, and multifunctional integration with optical, thermal, or sensing properties. Furthermore, we highly encourage the submission of contributions addressing challenges such as long-term performance in harsh environments, eco-friendly material selection, and the development of dynamic or stimuli-responsive superhydrophobic systems. This Special Issue aims to serve as a multidisciplinary platform, bringing together materials scientists, chemists, physicists, and engineers to advance the science and technology of superhydrophobic surfaces for use in impactful and sustainable applications.

Guest Editor

Dr. Xiaoming Feng
School of Mechanical Engineering, Jiangsu University of Science and Technology, Zhenjiang 212100, China

Deadline for manuscript submissions

12 June 2026

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/251415

Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

mdpi.com/journal/coatings

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/journal/coatings

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.

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

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)

MDPI