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# **Mechanical Properties of Advanced Multifunctional Coatings**

Guest Editors:

Dr. Rong-Guang Xu

Prof. Dr. Zhitong Chen

Prof. Dr. Peijian Chen

Prof. Dr. Guangjian Peng

Deadline for manuscript submissions:

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## **Message from the Guest Editors**

Advanced multifunctional coatings been widely used in different fields, such as aeronautics, transportation, biomedicine, electrical and electronic equipment, etc., due to the great and unpredicted progress in their synthesis, characterization, and properties. Mechanical properties are key to how advanced multifunctional coatings interact with external forces and environmental factors. An indepth understanding of mechanical properties of these coatings, however, still requires complex material modeling and characterization tools. This Special Issue aims to present the latest findings and to promote further research in the areas of mechanical behaviors of advanced multifunctional coatings. including experimental characterization and theoretical calculations.

# Potential topics:

- Advanced multifunctional coatings in mechatronics;
- Advanced characterization methods and tools;
- Advanced coatings for preparation and applications;
- Numerical simulations and computational modeling, including FEM/XFEM, MD, MC, DFT, etc.;
- Theoretical studies;
- Design and synthesis strategies affecting mechanical behaviors;
- Industrial case studies.







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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 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.

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