

Special Issue

Surface Modification and Functional Coatings for Chemical Materials

Message from the Guest Editors

This Special Issue focuses on the current state-of-the-art of surface modification and coating development for chemical materials. Of particular interest are the recent development of functional surfaces, smart coatings, biomimetic surface modification, and the fundamental exploration of the structure-property relationships for such desired functions as water-repellence, self-cleaning, anti-corrosion, anti-reflection, biocompatibility, adhesion, surface hardness, low friction, wear-resistance, conductivity, antistatic. Research areas may include (but not limited to) the following:

- Theoretical and experimental research in surface modification mechanisms.
- Recent developments in multi-functional coatings
- Inorganic nanoparticles-polymer composites
- Coatings produced by different processes
- Experimental and processing high-performance coatings with exposure to extreme environment applications.
- Understanding the degradation mechanisms of coatings
- The latest development of test methods
- Computer modeling, simulation to predict coating properties, performance, durability and reliability in service environments.

We look forward to receiving your contributions.

Guest Editors

Dr. Weizhi Li

School of Optoelectronic Science and Engineering, University of Electronic Science and Technology of China, Chengdu 610054, China

Dr. Yajie Yang

School of Optoelectronic Science and Engineering, University of Electronic Science and Technology of China, Chengdu 610054, China

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

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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

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