



## Wear-Resistant Coatings and Film Materials

Guest Editors:

### **Dr. Xuan Yin**

School of Mechanical and  
Electrical Engineering, Beijing  
University of Chemical  
Technology, Beijing 100029,  
China

### **Dr. Jianxun Xu**

School of Energy, Power and  
Mechanical Engineering, North  
China Electric Power University,  
Beijing 100096, China

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### **Message from the Guest Editors**

Dear Colleagues,

Wear-resistant coatings and film materials are essential in many industries, such as manufacturing and aerospace. These coatings and materials provide protection against wear and tear, extending the lifespan and durability of various products.

One of the key benefits of wear-resistant coatings, such as nanomaterials and polyurethane, is their ability to reduce friction. These coatings are commonly used in applications such as bearings. Another advantage of wear-resistant coatings is their ability to resist chemical and environmental degradation. This extends their lifespan and reduces the maintenance costs in harsh environments. Moreover, wear-resistant coatings can also enhance the aesthetic appeal of products with different colors or textures. This is particularly important in automotive and consumer electronics, where design plays a crucial role in customers' perception. Despite the numerous benefits of wear-resistant coatings, there are also challenges and limitations.

