

## Special Issue

# Nano-Coating: Design, Fabrication and Applications

### Message from the Guest Editor

Nano-coating is a form of a coating that is often applied to a surface utilizing nanotechnology at the nanoscale level (between 1 and 1000 nm). Nano-coatings are designed to provide a range of benefits, such as improving the durability, corrosion resistance, and wear resistance of a surface, as well as providing unique optical, electrical, or mechanical properties. Nano-coatings are mainly prepared using two methods: the vapor phase method and the liquid phase method. These techniques allow for the precise control of the thickness and composition of the nano-coating, as well as the ability to alter the surface properties to specific applications.

Designing nano-coating involves careful consideration of the material selection, deposition technique, surface preparation, coating thickness, characterization, and performance testing. Nano-coatings are used in many different industries, including electronics, aerospace, automotive, healthcare, and consumer goods, as potential applications such as anti-corrosion, anti-wear, superhydrophobic, scratch resistance, antireflective, flame retardant, antibacterial area, anti-fingerprint coatings, and electronics.

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### Guest Editor

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