



Wear and Corrosion Resistant Coatings

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Message from the Guest Editor

Dear Colleagues,

Coatings are used in myriad applications requiring improved performance in harsh environments subjected to severe wear and corrosion. The use of coating allows for bulk components to be protected using relatively thin (~50–300 μm thick) coatings that have excellent wear and corrosion resistance.

This Special Issue seeks to present exciting ongoing research from academia, government, and industry on the development of new coating formulations, including nanocomposites, green cermets, and metal matrix composites. Of particular interest are coatings with exceptional wear and corrosion resistance developed by emerging processing technologies such as cold spray and additive manufacturing. Principal topics include, but are not limited to:

- Corrosion resistance
- Wear resistance
- Green cermets
- Nanocomposites
- Metal matrix composite
- Cold spray
- Solid state lubrication
- Hot corrosion

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Guest Editor





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Message from the Editor-in-Chief

Friction, wear, and lubrication are tribological phenomena that govern the behavior of interacting surfaces in a wide range of machine components. Understanding the physical and chemical nature of these phenomena is critical to achieving long component lifetime and economical operation. Research in the field of tribology is highly interdisciplinary, and encompasses the fields of physics, chemistry, engineering, and mathematical modeling. *Lubricants* invites contributions on new advances in all areas of tribology for publication as peer-reviewed research articles, reviews of current research, letters, and communications. We are committed to providing timely reviews of all articles submitted. Please consider sharing your work with the scientific community through publication in *Lubricants*.

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