

# Special Issue

## Role of Coatings on Corrosion, Wear and Erosion Behavior

### Message from the Guest Editor

I would like to invite you to contribute to this Special Issue of *Coatings* entitled “Role of Coatings on Corrosion, Wear and Erosion Behavior”. The processes of degradation such as wear and/or corrosion can result in the premature failure of components, as well as incurring high costs of unscheduled replacement. In recent years, industrial components are increasingly expected to operate in more hostile environments. One way by which a component’s life can be extended is to incorporate into its design coatings that are resistant to both wear and corrosion. The purpose of this Special Issue is to present the latest developments in wear- and corrosion-resistant coatings to extend the operating lives of industrial components. Full papers, review articles and short communications are all welcome. The topics covered by this issue may include but are not limited to the following:

- Coatings to reduce erosive, abrasive or adhesive wear;
- Corrosion;
- Tribo-corrosion;
- Multifunctional, smart and self-healing coatings;
- Methods of coating deposition;
- Characterisation of wear-resistant coatings;
- Applications of surface coatings to reduce wear.

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### Guest Editor

Dr. David W. Wheeler

Atomic Weapons Establishment, Aldermaston, Reading, Berkshire RG7 4PR, UK

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### Deadline for manuscript submissions

closed (31 December 2024)



## Coatings

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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.

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### Editors-in-Chief

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