

# Special Issue

## Anti-wear Coatings for High Temperature Applications

### Message from the Guest Editors

Friction and wear at high temperature is an ongoing challenge for mechanical systems in various industries. The development of anti-wear and solid-lubricating coatings is one of the most effective strategies to reduce the friction and wear of mechanical surfaces/interfaces, and thus attracts a great deal of attention from the material and tribology community around the world. With the recent progress in science and technology, there has been a boom in the development of anti-wear coatings, including preparation technologies (spraying, laser melting, magnetron sputtering, etc.), novel design strategies (environment adaption, multilayer structure, etc.) and the varied coating workpieces (from plate to complicated shapes like pipe internal wall). The aim of this Special Issue is to present the state-of-the art of anti-wear coatings, together with innovative fundamental research and applications. These include, but are not limited to:

- Anti-wear and solid-lubricating coatings;
- Mechanical and high-temperature tribological properties;
- Coating preparation technologies and processes;
- Coating composition and structural design;
- Environment adaption;
- Industrial applications.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 July 2022)



## 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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