Special Issue

Trends and Advances in Anti-wear Materials

Message from the Guest Editors

Novel anti-wear materials with superior mechanical properties are being highly demanded in modern industries. Many critical components for industrial application are prepared using anti-wear materials, including crusher hammers, brake discs, engine cylinder sleeves, friction sheaves, grinding rollers, and liner plates for ball mills. Although various anti-wear materials have been developed, the contradiction between wear resistance, strength, ductility, and toughness remains a significant problem. Therefore, the pursuit of advanced anti-wear materials and related methods for their processing has become a critical issue. Manuscripts on calculation studies, simulation, and experimental works are welcome, and the topics of interest include but are not limited to:

- Development of advanced anti-wear
- Deposition of hard coatings (e.g., PVD, CVD, etc.).
- Solidification or fabrication of metal matrix composites.
- Computer simulations for designing novel high-performance anti-wear materials.
- Development of ceramic-particle-dispersed superhard alloys.
- Unprecedented properties of metallic anti-wear materials...

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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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