

Special Issue

Advanced Coatings for Alloy Protection and Performance Enhancement

Message from the Guest Editors

We would like to invite you to submit your research for this Special Issue, "Advanced Coatings for Alloy Protection and Performance Enhancement". Advanced coatings play a pivotal role in enhancing the performance and longevity of alloy materials across industries such as aerospace, energy, and manufacturing. As alloys face increasingly demanding operational environments—including high temperatures, corrosion, and mechanical wear—innovative coating technologies are essential to mitigate degradation and extend service life. This Special Issue explores cutting-edge developments in coating design, deposition techniques, and functionalization strategies, with a focus on improving durability, efficiency, and multifunctionality. Contributions highlight novel materials, scalable processes, and mechanistic insights aimed at addressing current challenges and unlocking new applications for coated alloys in next-generation engineering systems.

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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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