Special Issue

Research Progress of Metals and Alloys by Thermal Layering and Deposition

Message from the Guest Editors

Coating is one of the suitable techniques to improve the wear, corrosion and overall life of the component. In addition to it, the methods such as additive layer coatings, friction stir coating, friction stir layer deposition and functionally graded materials are some alternative options to overcome the defects such as high wear and corrosion of the mating parts of the automobile and to improve the mechanical and microstructural properties. Plastic deformation techniques such as severe plastic deformation (SPD) and friction stir processing (FSP) are some key parameters to enhance the overall performance of the material against the wear, tear and corrosion behaviour of the material. This Special Issue of Coatings is focused on such coating techniques and their microstructural, mechanical, wear, corrosion and thermal characterization. Therefore, we are inviting the submission of full-length original articles and reviews for this Special Issue of Coatings, titled “Research Progress of Metals and Alloys by thermal layering and deposition”.

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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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