

Special Issue

Surface Engineering and Coating Technologies for Improving the Structural Integrity of Metallic Materials

Message from the Guest Editors

This Special Issue emphasizes the importance of surface engineering and coating technologies in enhancing the structural integrity of metallic materials for various engineering applications. The topics of interest include, but are not limited to, original research providing theoretical and methodological foundations for established surface processing techniques (such as thermo-chemical treatments, physical and chemical vapor deposition methods, thermal and plasma spraying, surface modification using directed energy techniques like ion, electron, and laser beams, and mechanical surface treatments like shot peening, etc.) and novel approaches to surface treatments aimed at improving the structural integrity of metallic materials, including their wear, corrosion, and fatigue resistance.

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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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