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Properties and Applications of Surfaces/Components Engineered Using Thermal Spray, Welding, and Directed High Energy Beam Technologies

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Message from the Guest Editors

Surface engineering refers to treatment of the surface and near-surface regions of a material by a comprehensive array of technologies to allow the surface to perform functions that are distinct from those functions demanded from the bulk of the material. There are two key categories of surface engineering approaches that can be used to enhance the surface properties of the bulk materials. These are surface coatings and surface modification.

This special issue on the "**Properties and Applications of Surfaces/ Components Engineered using Thermal Spray, Welding, and Directed High Energy Beam Technologies**" provides a forum for the publication of refereed material on both the theory and practice of these important enabling technologies, embracing science, technology and engineering. Coverage includes design, surface modification strategies, 3D component manufacturing, process control, characterization, properties of the final system or component, including quality control and non-destructive examination.

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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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