

Special Issue

Recent Developments of Cold Spray Coating

Message from the Guest Editor

The scope of this Special Issue will be the properties and inspection of cold spray coatings and cold spray for dimensional restoration. Of interest are wear- and corrosion-resistant coatings, especially those that are designed for chrome- and nickel-plating replacement that may also serve as a means for dimensional restoration. Cold spray has emerged as a viable repair technique in the aerospace and automotive industries, for ships and submarines, and even in the petrochemical and medical industries. In particular, the topics of interest include but are not limited to:

- Chrome- and nickel-plating replacement and hard-faced coatings;
- Corrosion coatings, antimicrobial coatings, EMI shielding;
- Dimensional restoration of aerospace, automotive, and ship components;
- Optimization of process parameters for superior performance;
- Materials characterization of cold spray coatings;
- Applications of cold spray;
- Nondestructive inspection of cold spray coatings.

Guest Editor

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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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