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Advanced Cold Spraying Technology

Guest Editors:

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Deadline for manuscript submissions:
closed (10 October 2023)

Message from the Guest Editors

Dear Colleagues,

Cold spray is an advanced solid-state, powder-based coatings and additive manufacturing technology. It has many unique attributes, thus opening up new opportunities in various niche industrial markets. The introduction of hybrid cold spray and the combination of cold spray with post-processing techniques have resolved its many inherent drawbacks. The integration of artificial intelligence technology in cold spray helps to better realize toolpath and process optimization as well as process control for industrial production campaign. Finally, the supersonic projectile behaviors of micron-sized particles in cold spray allows researchers to investigate numerous fundamental materials phenomena under extreme conditions.

For this Special Issue, we welcome original research papers and review articles representing advanced cold spray technology. Particular topics of interest include but are not limited to:

- Cold spray additive manufacturing
- Cold spray repair and restoration
- Cold spray fundamentals
- Cold spray powders
- Cold spray of novel and functional materials
- Hybrid cold spray and post-processing techniques
- Artificial intelligence in cold spray

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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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