

Special Issue

Cold Spray for Additive Manufacturing and Remanufacturing Applications

Message from the Guest Editors

Cold Spray technology has gained significant traction in recent years and has now emerged as a critical technique in the fields of additive manufacturing (AM) and remanufacturing. The scope of this Special Issue cover, but is not limited to, the following topics:

- Novel Cold Spray materials and techniques for additive manufacturing;
- Cold Spray technology's applications in surface repair, surface enhancement, functional coatings, and additive manufacturing in many fields;
- Unique attributes of Cold Spray, such as a high deposition rate, high adhesion strength, solid-state bonding at low temperatures, etc.;
- The integration of artificial intelligence (AI) technology with Cold Spray helps to better realize toolpath and process optimization, as well as process control for industrial production campaigns;
- Cold Spray repair and remanufacturing of worn or damaged components;
- Characterization and testing of Cold-Sprayed components for additive manufacturing and remanufacturing applications;
- Challenges and opportunities related to implementing Cold Spray technology for additive manufacturing and remanufacturing.

Guest Editors

Dr. Wen Sun

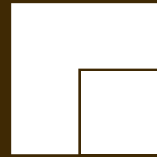
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About the Journal

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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