



Recent Developments and Future Perspectives in Cold Spray Coating

Guest Editor:

Dr. Irene G. Cano
Universitat de Barcelona,
Barcelona, Spain

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Message from the Guest Editor

Dear Colleagues,

It is well known that metals, polymers, ceramics, and composite materials are able to be applied by the cold spray (CS) technology to a wide range of base materials. The applications of CS are being constantly expanded and improved, involving areas such as corrosion protection, repairing structures, catalyst deposition, electromagnet transition, and electronic and medical devices. The use of the CS technology has been already demonstrated and acquired by the industry for corrosion and wear resistance applications, for instance, while it is being increasingly considered as very promising for other applications such as restoring/repairing and additive manufacturing.

The scope of this Special Issue could be composed of the following subjects:

- An understanding of the physical and chemical mechanisms involved in the CS process: theoretical and experimental research;
- Nonconventional materials sprayed by cold spray;
- Modeling and simulation of the CS process to predict coating properties, performance, durability, and reliability;
- Cold spray as an additive manufacturing technique both for obtaining parts and for repairing of materials and structures.





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Prof. Dr. Wei Pan

State Key Laboratory of New
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School of Materials Science &
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Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

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.

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Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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