Special Issue

Recent Developments and Future Perspectives in Cold Spray Coating

Message from the Guest Editor

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.

Guest Editor

Dr. Irene G. Cano

Universitat de Barcelona, Barcelona, Spain

Deadline for manuscript submissions

closed (15 September 2021)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/47937

Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

mdpi.com/journal/coatings

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/journal/coatings

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.

Editors-in-Chief

Prof. Dr. Wei Pan
State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

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

Author Benefits

Open Access

— free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)

MDPI