Special Issue

Advances in Cold Spraying for Thin Film Preparation

Message from the Guest Editors

Cold gas dynamic spraying (CGDS) is a versatile method used extensively for coating production of the broad thickness range, additive manufacturing, and component restoration. There is still a lot of room to broaden the possible range of used materials and their sizes (i.e., nanometric ceramics and polymers). The improvements and modernization of cold spray equipment (e.g., laser-assisted spraying, CGDS system equipped with an atomizer), development of innovative processes for the fabrication of feedstock powders adapted to CGDS, and pre- and post-processing for altering microstructures and properties of the produced coatings are just a few examples for further method progress. We invite authors to demonstrate their scientific and technological contribution to any cold-spray-related issues, including modification of spray equipment and the use of unconventional coating materials or pre- and post-processing of coatings and proposal of new application of the cold spray process. Both theoretical and experimental articles aiming at an understanding of the physicochemical mechanism of the deposition process would also be appreciated.

Guest Editors

Dr. Agnieszka Baszczuk
Department of Mechanics, Materials and Biomedical Engineering
Wrocław University of Science and Technology, Wroclaw, Poland

Dr. Marek Jasiorski
Department of Mechanics, Materials and Biomedical Engineering
Wrocław University of Science and Technology, Wroclaw, Poland

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

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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.

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

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