Special Issue

Modern Cold Spray Technique –2022

Message from the Guest Editor

Cold spray is becoming more and more prominent among thermal spray processes. The possibility to produce thick coatings with low porosity, as well as the absence of any phase transformation during the deposition process, are of great interest to the scientific community. Further, we should not forget the possibility of spraying any type of materials, from steel to Ti and Ni superalloys, and many more. Not only the microstructural and mechanical properties of the coatings, but also deposition efficiency and geometrical accuracy are key factors for the future success of the process. On these premises, it is no doubt true that cold spray will be the process of the future not only for depositing coatings, but also for producing additive manufactured parts. Consequently, this Special Issue aims to investigate and address the future challenges of cold spray in terms of understanding, improving, modeling, and applying the process in different advanced industrial sectors. Original research articles as well as review papers on the state of the art of the cold spray process are welcome.

Guest Editor

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Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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