

## Special Issue

# Emerging Trends in Cold Spray: Process Evolution and Materials Development

### Message from the Guest Editor

The continuous evolution of advanced manufacturing has created a growing demand for innovative surface engineering technologies capable of enhancing component performance without compromising material integrity. Among these, cold gas dynamic spray (commonly known as cold spray) has emerged as a versatile solid-state deposition technique, enabling the fabrication of high-quality coatings and repairs while preserving the original microstructure of the feedstock material. This process is particularly well-suited for temperature-sensitive materials and applications requiring high bond strength, wear resistance, or corrosion protection. This Special Issue is dedicated to showcasing recent progress and addressing current challenges in cold spray research and applications. It aims to bring together contributions that advance our understanding of process fundamentals, materials behavior, and performance optimization.

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### Guest Editor

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## Materials

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*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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