Special Issue

Experimental Research and Numerical Simulations of Metal Additive Manufacturing

Message from the Guest Editors

Metal-based additive manufacturing parts make up a significant and growing proportion of 3D printing, with increasingly diverse areas of application in the medical, aerospace, and automotive sectors. Many factors, including materials and processes, and their expanding use as final or structural parts have contributed to this growth and have led to the need for specialized research in this field, which is of importance in many branches of engineering. It is well known that several characteristics of printed parts, such as mechanical properties, depend on printing parameters. Therefore, analysis of the influence of manufacturing parameters on printed parts is a key factor in order to optimize the printing process as well as to predict and understand the material properties. We encourage scientists and engineers to submit papers for inclusion in this Special Issue. There are no restrictions on the type of manufacture, metal, or field of application. Papers on theory, experiments, design, simulation, etc. will be considered for publication, and we expect that many will contain aspects of all of these.

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Message from the Editorial Board

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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